

A.H.E.R.A.

Management Plan for Asbestos Containing Building Materials

Willamette Primary 1403 S.E. 12th Street West Linn, OR 97068

TRE Project No. 1020-90

Conducted By:

Prepared by



INTRODUCTION

Each LEA must develop an Asbestos Management Plan for school buildings under its authority. This plan is to be submitted to the state Governor (or designee), no later than October 12, 1988. LEA's are required to begin implementation of their management plan by July 9, 1989 and to complete in stages. A copy of the plan must be available in the school administrative offices for viewing by the public.

A Management Plan should be used as a guidance document for asbestos control. A brief description of the elements of the plan as required by AHERA follows. Other sections of the notebook provide detailed information on the various components of the plan.

Management plans should be considered working documents. They set forth a framework for short and long-term actions to be taken by the LEA to protect building occupants. They must be kept up to date (e.g., response actions, dates and results of surveillance).

This survey was performed using non-destructive sampling methods in order to maintain the integrity of occupied spaces. Any unknown or suspect materials revealed during renovation or demolition of the structure should be tested for asbestos content prior to their disturbance.

The Management Plan represents the combination of the Inspection Report with a game plan for responding to and maintaining the asbestos containing materials. It is a flexible document that you can easily update. It is designed on an AHERA format and currently exceeds state and federal requirements for managing asbestos materials in commercial properties.

The Management Plan is a document the Owner must continue to use and update. The notebook will be an aid for the following activities:

Identifying and performing initial cleaning Scheduling response actions Training your personnel Maintaining the asbestos containing materials in place Learning to budget for asbestos activities Setting building asbestos policies Notifying affected parties Keeping records

Remember this plan in not an encyclopedia of all asbestos facts, nor a recitation of the many rules affecting asbestos, nor a substitute for training.

CONCLUSION

The Management Plan should provide elaboration on all aspects of the plan. For example, in selecting a response action, justification is necessary for the particular choice, rationale for its prioritization and explanation of the resources required to implement the response should appear in the plan.

The Management Plan is viewed as a planning or working document. It not only sets out a course of action for the LEA, but it becomes documentary evidence of progress in implementing asbestos control options. Give the cost and financing information contained in the plan, it provides guidance on matters such as annual and long-term school budgeting and community tax and bond issues. In addition, the Management Plan will help school administrators identify potential funding sources to implement their asbestos control program.

LEA DESIGNATE

Tim Woodley West Linn-Wilsonville School District 3Jt 22201 S.W. Stafford Road Tualatin, OR 97068

The Local Education Agency Designate is required by the Final Rules to ensure the School's continuing compliance with the AHERA requirements. The LEA Designates specific requirements are described in 40 CFR Section 763.84 of the Final Rules.

SCHOOL ASBESTOS COORDINATOR

As is option, the School may appoint a school asbestos coordinator to ensure compliance within a specific school. The coordinator's responsibilities parallel those of the LEA Designate.

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LEA DESIGNATE DOCUMENTATION

The school district must designate and train a person to ensure compliance with the requirements of Section 763.84 of the Final Rules. The responsibilities of the LEA Designate's signature and statement of acceptance appears in the last TAB of the Management Plan. If the school board or superintendent has formally assigned the LEA Designate with a letter, memorandum, or similar conveyance, a copy should be filed under this Tab.

The West Linn-Wilsonville School District's Superintendent Roger L. Woehl acknowledges the undersigned person to act as the LEA Designate throughout the West Linn-Wilsonville School District.

and Moch Signature: Date:

LEA DESIGNATE

Tim Woodley West Linn-Wilsonville School District 3Jt 22210 S.W. Stafford Road Tualatin, OR 97062 (503) 638-9869

LEA DESIGNATE TRAINING

Course Name: <u>AHERA</u> DP
TRAINING
Training Date: 10 - 14 - 99
Total hours:
Description:

LEA DESIGNATE RESPONSIBILITIES

Responsibilities are listed in the federal register included in this section.

ASBESTOS MANAGEMENT PLAN

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FOR

Willamette Primary 1403 S.E. 12th Street West Linn, OR 97068

ASBESTOS PROGRAM COORDINATOR:

Tim Woodley (503) 673-7041

INSPECTION CONDUCTED BY:



P.O. BOX 216 Gladstone OR, 97027 Phone: (503) 557-2396 Fax: 557-3025

WEST LINN-WILSONVILLE SCHOOL DISTRICT

TABLE OF CONTENTS

1. Introduction/LEA Designate & (Assurances)

- Overview of Asbestos
- AHERA Regulations

2. Summary of Asbestos Containing Building Materials (ACBM) in this facility

- AHERA General Data Sheet
- Locations & Quantities of Asbestos Containing Building Materials
- Asbestos Location Diagrams
- Consultants Cost Estimates for Asbestos Removal

3. Plan Distribution/Notification

- Annual (Employee) Notification Records
- Annual (Parent/Legal Guardian/Occupant) Notification Records

4. Notification & Training of Employees/Contractors/Short-Term Workers

- Contractor Notification Letter
- Contractor Notification/Acknowledgment
- Contractor Asbestos Awareness Training Records

5. Training Records

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- LEA Designate/Asbestos Awareness Training Records
- Maintenance/Custodial Staff
- Personnel Medical Records Respiratory Protection

6. Additional Asbestos Material Assessment Reports

- Asbestos Sample/Material Location Diagram
- Asbestos Sample Analysis Data
- 7. Additional Asbestos Sample/Assessment Data
- 8. Periodic Surveillance Reports (6-month)
- 9. Three-year Reinspection Reports

10. Asbestos Removal Activity/Response Action Recordkeeping

- Operations & Maintenance (<3 sq. feet or 3 ln. feet)
- Small Scale (>3 sq. feet or 3 ln. feet) (<40 ln. feet or 80 sq. feet)
- Full Scale (>40 ln. feet or 80 sq. feet)
- Flow Charts to Determine Adequate Response Actions
- 11. Operations and Maintenance Plan
- 12. Regulatory Agency Correspondence/Overview of Requirements (EPA, DEQ, Oregon OSHA)
- 13. Certificates (Management Planner, Building Inspector, Project Designer, NVLAP) NIOSH 582, 7400 Method Certification

<u>Summary of Asbestos Containing Building Materials (ACBM) in this</u> <u>facility.</u>

This section reflects requirements outlined in 40 CFR 763.85 (vi) (B) (c) (d) and (e)

The following subsections contain this required information:

- AHERA General Data Sheet
- Locations and quantities of Asbestos Containing Building Materials
- Asbestos location diagrams
- Consultants cost estimates for asbestos removal

SAMPLE/MATERIAL LOCATION DIAGRAMS

As part of the AHERA Asbestos Inspection the locations of samples collected are recorded on building diagrams. In addition to the sample locations, specific damage areas are recorded where found. The following pages provide the sample location diagrams for the School District. These drawings are organized in the same manner as the inspection/management plan data, i.e., campus one building one is first.

The title block contains the specific state, district, campus, and building or code with a 12 digit number. Next is the District Name, the Campus Name, and finally the Building Name. The next block provides the date the drawing was made, the street number and finally the drawing number.

Location of Caution Label: The AHERA regulations require the use of labels indicating the presence of Asbestos Containing Building Materials (ACBM). The label is to be placed on or near ACBM in routine maintenance areas in all school buildings. When this label is applied in the field the inspector identifies its' location on the sample location diagram. On the drawing, the label symbol contains information about its placement within the routine maintenance area so that it may be readily found by the LEA. The label states the following:

CAUTION ASBESTOS. HAZARDOUS. DO NOT DISTURB WITHOUT PROPER TRAINING AND EQUIPMENT

The presence of sample numbers, crosshatching and damage areas does not mean that all of the areas indicated contain asbestos. These location diagrams are a record of the field inspection only and are meant to show where samples were taken and what areas may be affected if asbestos is present. The determine which areas are affected, a review of the Inspection/Management Plan Data and the Petrographic Results contained in Sections 4 and 5 should be made. If desired, the location diagrams can be highlighted by the school district's asbestos coordinator to indicate the presence of asbestos containing material.

AHERA GENERAL DATA SHEET

SECTION 01314 CERTIFICATION OF NO HAZARDOUS MATERIAL ASBESTOS

ORIGINAL

No final payment shall be made until the Contractor shall file with the Owner, prior to acceptance of the Work, a notarized Certification of No Hazardous Material in the following form:

Asbestos

ASBESTOS

"TO THE BEST OF MY KNOWLEDGE NO HAZARDOUS MATERIAL IS USED IN THE CONSTRUCTION OF THIS PROJECT. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED AS REQUESTED BY THE OWNER FOR ALL MATERIALS WHICH MAY BE QUESTIONED IN THE FUTURE."

McCarthy Firm Name Signature

Title Sr. Vice President

(Attest) (SEAL IF CONTRACTOR IS A CORPORATION)

As determined necessary, evidence of compliance may be required to be submitted with and made a part of this Certificate.

ASBESTOS END OF CERTIFICATION OF NO HAZARDOUS MATERIAL SECTION

Mar-99

1999 PHASE II RENOVATION PROJECT WEST LINN - WILSONVILLE SCHOOL DISTRICT

01314-1

11/15/99 MON 16:13 FAX 503 646 4900

MCCARTHY

DRIGINAL

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CERTIFICATION OF NO HAZARDOUS MATERIAL ASBESTOS

SECTION 01314

No final payment shall be made until the Contractor shall file with the Owner, prior to acceptance of the Work, a notarized Certification of No Hazardeus Material in the following form: Asbestos

ASBESTOS

"TO THE BEST OF MY KNOWLEDGE NOllazardous material is used in the construction of this project. Material safety data sheets will be provided as requested by the owner for all materials which may be questioned in the future."

In WITNESS WHEREOF, the undersigned has signed and sealed this instrument this 16 TH day of NOV. 19 99

MECHANICAL ERS TATE Firm Name Signature Title Else 6 Goodneh OFFICIAL SEAL

ELSIE C. GOODRICH

NOTARY PUBLIC-OREGON

COMMISSION NO. 320350 MY COMMISSION EXPIRES MARCH 4, 2003

(Attest)

(SEAL IF CONTRACTOR IS A CORPORATION)

As determined necessary, evidence of compliance may be required to be submitted with and made a part of this Certificate.

ASBESTOS END OF CERTIFICATION OF NO HAZARDOLIS MATERIAL SECTION

Mar-99

1999 PHASE II RENOVATION PROJECT WEST LINN - WILSONVILLE SCHOOL DISTRICT

01314-1

370050-006-001

OREGON DEPARTMENT OF EDUCATION 700 Pringle Parkway SE lalem, Oregon 97310-0290

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Office of School District Services -378-6964

•	SUMMAI	RY DATA SHEET	· · · ·
Facility Name and Address	Villiamette		
Preparer Name and Phone No.	Kathy Cameron	(913) 865-9455	Date 4127187

		Type of Asi	Type of Asbestos-Containing Building Materials (ACBM)										
AHERA Damage Category		Sudacina	Thermal System	Insulation (TSi)									
		Surfacing	Lineal Feet	Square Feet	MISCENDIEOUS								
1. Damaged or signific damaged TSI ACM	antly	1 Jackson			īţ.								
2. Damaged friable surfacing ACM				den et al.									
3. Significantly damage friable surfacing AC	ed M	4960.											
4. Damaged or signific damaged friable mis laneous ACM	antly scel-												
5. ACBM with potentia damage	i for	4250	1641	1113	15000								
6. ACBM with potentia significant damage	l for	100 -											
7. Other friable ACBM friable suspected ACBM	, or												
8. Nonfriable ACBM, o nonfriable suspecte ACBM	or d												
• Total ACBM	Ft ²	10110		1113	45000								
	LF.		16011										
Total Friable ACBM	Ft ²	10110											
(Fotal 1 through 7)	L.F.			State State									

Oregon Department of Education 700 Pringle Parkway SE 31em, OR 97310-0290

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Williamette - Main	West Linn School Distri	.ct
Name of School Building	LEA (District)	County
PO Box 100	West Linn	97068-0100
Address	City	Zip Code
	Samuel Nutt	(503)638-9869
Building Telephone Number	District's Asbestos Program Manager	Telephone Numbe
Public <u>x</u> Private	State	
CONSTRUCTION DATA		

Before Year Built: 1930 1930-44 1945-60	After 1961-75 1975 Actual
Additions Dates: Siz	e (Sq. Ft. all floors)
Construction Type: Steel Wood Co	ncrete Masonry Other
oof Framing: Steel Wood Concret	.e
Heating Hot Forced System: Steam Water Air	Electric Heat Baseboard Pump Other
Renovation: Yes <u>No</u>	Year:
USE AND OCCUPANCY Primary Use: School Athletic Facilit Maintenance Building Ot No. of Occupants: Staff Students	y Office Warehouse her (describe) Maint./Custodial Personnel
INSPECTOR*	MANAGEMENT PLANNER*
Name Gary Adler	Name John Newlin
Business Hall-Kimbrell	Business Hall-kimbrell
80026 Exp. Date	# 80046 Exp. Date
ourse Provider Hall-Kimbrell	
"Primary person if more than one person.	

Form 581-3111 (7/88)

RECORDS RETENTION: INDEFINITE

LOCATIONS & QUANTITIES OF ASBESTOS CONTAINING BUILDING MATERIALS

Campus: 006

Williamette

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AHERA Jrview

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WILLAI E SCHOOL

MAIN BUILDING

C	Homogeneous Area	Со	nditi	ion	%ACN	Quanity	S/L	R	espon	se Acti	on	Sarr	ple Dat	a	Cost I	Estimates
		SD	D	PD				OM	REP	REM	CL	Amo	Chry	Other	Repair	Removal
Т	STEAM-PIPING			X		731	LF	Х			·					
Т	STEAM-MJP			X		174	SF	X								
T	DHW-PIPING			X		225	LF	X								
T	DHW-MJP			Х		120	SF	Х								
Т	DCW-MJP			Χ		76	SF	Χ								
S	ACOUST. PLASTER			X		900	SF	Х								
S	ACOUST. PLASTER			Χ		3300	SF	X								
S	ACOUST. PLASTER			Χ		700	SF	X								
S	FIRE PROOFING			X		250	SF	X								
Μ	FLOOR TILE			Χ		45000	SF	Х								
						(
T	B.RBOILER			X		350	SF	X								
T	B.RMJP			Χ		118	SF	Х								
Т	B.RPIPING			X		685	LF	Х								
Т	B.RDHW TANK			Х		275	SF	Х								
									~~~~~							
															f	
Cod	es:			·												
Τ-	Thermal															
S -	Surfacing															
M -	Misc										~~~~~					
CA	- Transite															

LABORATORY:

#### PETROGRAPHIC ANALYSIS FOR ASBESTOS West Linn S.D. 3JT 37-0050

4840 W. 15th Street Lawrence, Kansas 66044

LAB	SUPERVISOR:	Thomas	Bergin
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LABORATORY:

HALL-KIMBRELL ENVIRONMENTAL SERVICES

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4840 W. 15th Street

Lawrence, Kansas 66044

### PETROGRAPHIC ANALYSIS FOR ASBESTOS West Linn S.D. 3JT

37-0050

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10/83

LAB SUPERVISOR: Thomas Bergin

LABORATORY:

HALL-KIMBRELL ENVIRONMENTAL SERVICES

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4840 W. 15th Street

#### PETROGRAPHIC ANALYSIS FOR ASBESTOS West Linn S.D. 3JT 37-0050

Lawrence, Kansas 66044 - ASBESTOS-- OTHER MATERIALS -USGROUP SAM# CONTIASE! CHRY AMOS CROC ANTH ACT/TRM | &ASB MIN WOOD VERM PUMC BIND OTH1 1 27005000600111 22 159 .... 44 v i ... 44 60 مع 169 ^ • 459. A& 4A& - -

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- USA # 75 -		.	ii						i	i						i		i	
37005000600175	20	N	N	0%	08	08	08	08	0%	0%	0%	0%	58%	28% GM	14%	0%	100%	07/05/89	M. Jackson
37005000600175	21	N	ท	0%	0%	0%	0%	80	0%	0%	18%	0%	0%	19% CA	638	0%	100%	07/05/89	M. Jackson
37005000600175	22	ท	ស	0%	0%	0%	0%	80	0%	0%	58%	60	0\$	12% GM	30%	0%	100%	07/05/89	M. Jackson
37005000600175	23	N	м	0%	0%	0%	0%	0%	0%	0%	23%	0%	0%	63% GM	14%	0%	100%	07/05/89	M. Jackson
37005000600175	24	N	N	0%	0%	0%	0¥	0%	0%	0% 1	27%	68	0%	64% GM	98	0%	100%	07/05/89	M. Jackson
	51	N	¥	6%	0%	0%	0%	0%	6%	0%	0%	0%	0%	30% CA	64%	0%	100%	03/24/89	D. Sheperd
			ii						i							i_			

PAGE 5 - 3

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DATE | MICROSCOPIST

LAB SUPERVISOR: Thomas Bergin

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### DISTRICT COST SUMMARY

# PROJECT NUMBER: 37-0050 DISTRICT NAME: West Linn S.D. 3JT

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	REMOVAL COST	REINSULATION COST	COMBINED COST	
CAMPUS: (006) Williamette				
BUILDING: (001) Williamette Main Bldg	\$376,182	\$176,628	\$552,810	
CAMPUS TOTALS	\$376.182	\$176.628	\$552,810	
	40.07=0	12/-/	1/	

NOTE: Please see the 'Cost Estimates' section of Part I for a full explanation of the cost estimates presented here PAGE 4A - 1

The following Microscopists performed the analysis for this project: How yol 87 37-0050 West Linn S.D. 3JT Signature

Susan Hoff

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Mary Holland

Elaine Cook

un Elaure Car

ann Augurd

D. Sheperd

Thomas F.B.s. LAA Supervision For the Firm

M. Jackson

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Campus: 006 Williamette

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West Linn S.D. 3JT 37-0050

Inspected By: Gary Adler Certification #: HK80026 St: KS State Cert #: St: Gross Square Ft: 74,320

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CAMPUS :	006 - Williamette
BUILDING :	001 - Williamette Main Bldg
Inspection	Dates: 07/19/88 to 07/14/89

YSTEM: Low Pr. Steam	LOCATION.				
	All Floors in Build	ling	TYPE OF MATERIAL:	Wrapped Paper Pip	e Cover
AMAGE CATEGORY: CEM with Potential for Damage	REASON for DAMAGE C The material is obs good condition.	ATEGORY: served to be in	POTENTIAL FOR DIST Slight	FURBANCE: SAMP 97 98	LE# %ASI 35 5
MATERIAL QUANTITIES	REMOVAL	OST	REPLACEMENT COSTS	TOTAL COST	50 S
275 Ft. 4 In. O.D. 456 Ft. 6 In. O.D.	\$2,45 \$5,91	l 33 .9	\$1,535 \$3,698	\$3,988 \$9,617	
			AREA TOTAL	\$13,605	
ECOMMENDED RESPONSE ACTION:	MANAGEMENT PRIORITY 3	PLAN RECOMMENDA	TION PREVENTIVE MEA See Part I and	ASURES: i OEM Code: OMA	
Lea Response:			RESPONSE ACTION SCH	HEDULE	
CTION ELECTION: Same as recommended		STP	RT DATE	COMPLETION I	ATE
COMMENTS:	Summer 1989 Ongoing			1	
******	*******	*****	****	**************	*******
**	* INSPECTION RESULTS	UNIFIED SAMPLI	NG AREA NUMBER - 03 *	* *	
SYSTEM: Low Pr. Steam	LOCATION: All Floors in Build	ling	TYPE OF MATERIAL:	MJP on Wrapped Pi	ipe Cover

DAMAGE CATEGORY: ACBM with Potential for Damage	REASON for DAMAGE CATEGORY: The material is observed to be in	POTENTIAL FOR DISTURBANCE: Slight	SAMPLE# 00	*ASB 60
······	good condition.	-	01	65
			02	60

### 02/16/90

### 02/16/90

#### AHERA COMPLIANCE PROGRAM

West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg Inspection Dates: 07/19/88 to 07/14/89 Inspected By: Gary Adler Certification #: HK80026 St: KS State Cert #: St: Gross Square Ft: 74,320

MATERIAL QUANTITIES	REMOVAL CO	OST   REI	PLACEMENT COSTS	TOTAL COSTS
89 4 Tn. O. D.	\$2.50	·	\$1.389	\$3.880
85 6 In. O. D.	\$3,28	8	\$1,931	\$5,219
			AREA TOTAL	\$9,108
	MANAGEMENT	PLAN RECOMMENDATIO		
RECOMMENDED RESPONSE ACTION: O&M Maintain/Monitor	PRIORITY:	•	See Part I and	d OEM Code: OMA
LEA RESPONSE:			RESPONSE ACTION SC	HEDULE
ACTION ELECTION: Same as recommended		START	DATE	COMPLETION DATE
comments:		Summer 1989		Ongoing
******	*******	*****	****	*****
	* INSPECTION RESULTS	UNIFIED SAMPLING	AREA NUMBER - 04 *	* *
DAMAGE CATEGORY.	PEASON for DAMAGE C	MEGORY .	POTENTIAL FOR DIS	17/DRANCE - SAMDI,E# %ASI
ACRM with Potential for Damage	The material is obs	erved to be in	Slight	03 14
Actel with Fotblicial for Damage	and condition	01100 00 20 20	ULIGHT	. 04 12
	good condición.			05 13
MATERIAL QUANTITIES	REMOVAL C	OST   RE	PLACEMENT COSTS	TOTAL COSTS
225 Ft. 4 In. 0.1	\$2,00	7	\$1,256	\$3,263
			AREA TOTAL	\$3,263
PECOMMENDED RESPONSE ACTION	MANAGEMENT	PLAN RECOMMENDATI	ON	
O&M Maintain/Monitor	3	•	See Part I an	d O&M Code: OMA
LEA RESPONSE:			RESPONSE ACTION SC	HEDULE
ACTION ELECTION: Same as recommended		START	DATE	COMPLETION DATE
Comments:		Summer 1989	•.	Ongoing
			***************	

West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg Inspection Dates: 07/19/88 to 04/24/89

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) 1 Inspected By: Gary Adler Certification #: HK80026 St: KS State Cert #: St: Gross Square Ft: 74,320

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MATERIAL QUANTITIES	REMOVAL C	OST RE	PLACEMENT COSTS	TOTAL COSTS
89 4 In. O. D. 85 6 In. O. D.	\$2,50 \$3,28		\$1,389 \$1,931	\$3,889 \$5,219
			AREA TOTAL	\$9,108
RECOMMENDED RESPONSE ACTION:	MANAGEMENT PRIORITY	PLAN RECOMMENDATIO	DN	SURES :
OLM Maintain/Monitor	3		See Part I and	O&M Code: OMA
LEA RESPONSE:			RESPONSE ACTION SCH	EDULE
ACTION ELECTION:				
Same as recommended		START	DATE	COMPLETION DATE
LEA COMMENTS:		Summer 1989		Ongoing
********	 ************************************	******	*************	!I
**	* INSPECTION RESULTS	5 UNIFIED SAMPLING	AREA NUMBER - 04 *	* *
SYSTEM: Dom. Hot Water	LOCATION: All Floors in Build	ling	TYPE OF MATERIAL:	Wrapped Paper Pipe Cover
DAMAGE CATEGORY: ACEM with Potential for Damage	REASON for DAMAGE ( The material is obs good condition.	CATEGORY: served to be in	POTENTIAL FOR DIST Slight	URBANCE: SAMPLE# %ASB 03 14 04 12 05 13
MATERIAL OUANTITIES	REMOVAL		PLACEMENT COSTS	TOTAL COSTS
225 Ft. 4 In. O.D	\$2,00	57	\$1,256	\$3,263
			AREA TOTAL	\$3,263
!	MANAGEMENT	PLAN RECOMMENDATI	ON	
RECOMMENDED RESPONSE ACTION:	PRIORIT	Y:	PREVENTIVE MEZ	SURES:
OEM Maintain/Monitor	3		See Part I and	1 OEM Code: OMA
LEA RESPONSE:			RESPONSE ACTION SCI	
Same as recommended		i stari	DATE	COMPLETION DATE
LEA COMMENTS:		Summer 1989		Ongoing
****	******	 ****************	********	 ********************************

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West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette

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BUILDING : 001 - Williamette Main Bldg

Inspection Dates: 07/19/88 to 04/24/89

Inspected By: Gary Adler Certification #: HK80026 St: KS State Cert #: st: Gross Square Ft: 74,320

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MATERIAL QUANTITIES REMOVAL COST REPLACEMENT COSTS TOTAL COSTS 75 Ft. 4 In. O.D. AREA TOTAL \$0 PRIORITY: RECOMMENDED RESPONSE ACTION: PREVENTIVE MEASURES: N/A 0 See Part I and OLM Code: LEA RESPONSE: RESPONSE ACTION SCHEDULE ACTION ELECTION: START DATE COMPLETION DATE LEA COMMENTS: N/A N/A ..... * * * INSPECTION RESULTS UNIFIED SAMPLING AREA NUMBER - 07 * * * LOCATION: SYSTEM: Dom. Cold Water TYPE OF MATERIAL: MJP on Wrapped Pipe Cover All Floors in Building DAMAGE CATEGORY: REASON for DAMAGE CATEGORY: POTENTIAL FOR DISTURBANCE: SAMPLE# ACBM with Potential for Damage The material is observed to be in Slight 12 good condition. 13 14 MATERIAL QUANTITIES REMOVAL COST REPLACEMENT COSTS TOTAL COSTS 76 4 In. O. D. \$2,135 \$1,186 \$3,321 AREA TOTAL \$3,321 -----RECOMMENDED RESPONSE ACTION: PRIORITY: PREVENTIVE MEASURES: O&M Maintain/Monitor 3 See Part I and O&M Code: OMA LEA RESPONSE: RESPONSE ACTION SCHEDULE ACTION ELECTION: Same as recommended START DATE COMPLETION DATE LEA COMMENTS: Summer 1989 Ongoing *********************** *****************

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West Linn S.D. 3JT 37-0050

REMOVAL CC	DST	REPLACEMENT COSTS AREA TOTAL NDATION	TOTAL COST       \$0       \$0       EASURES:       hd O&M_Code:       COMPLETION D       N/A       * * *       : Acoustical/Therma	ATE
MANAGEMENT I PRIORITY: 0	PLAN RECOMME	AREA TOTAL NDATION	\$0 EASURES: ad O&M Code: CHEDULE COMPLETION D N/A N/A	ATE
MANAGEMENT I PRIORITY : 0	PLAN RECOMME	AREA TOTAL NDATIONPREVENTIVE ME See Part I an RESPONSE ACTION SC START DATE N/A PLING AREA NUMBER - 10 TYPE OF MATERIAL:	\$0 EASURES: hd O&M Code: CHEDULE COMPLETION D N/A	ATE
MANAGEMENT I PRIORITY: 0	PLAN RECOMME	NDATION	EASURES: hd OsM Code: CHEDULE COMPLETION D N/A **** : Acoustical/Therma	ATE
INSPECTION RESULTS OCATION: First Floor	UNIFIED SAM	RESPONSE ACTION SO START DATE N/A PLING AREA NUMBER - 10 3 TYPE OF MATERIAL	CHEDULE COMPLETION D N/A	ATE
INSPECTION RESULTS OCATION: first Floor	UNIFIED SAM	START DATE N/A PLING AREA NUMBER - 10 * TYPE OF MATERIAL:	COMPLETION D N/A	ATE
INSPECTION RESULTS OCATION: First Floor	UNIFIED SAM	N/A PLING AREA NUMBER - 10 * TYPE OF MATERIAL:	N/A	1 Plast
INSPECTION RESULTS	UNIFIED SAM	PLING AREA NUMBER - 10 * TYPE OF MATERIAL:	: Acoustical/Therma	******* 1 Plast
REASON for DAMAGE C	ATEGORY: en damaged h	POTENTIAL FOR DI	STURBANCE: SAMP 17	'LE# %A ' 1
contact, age, and p	revious		18	1
renovations and/or : is deleminating from	repair work m the surfac	and to	19 20	, 1
which it was applied	d.		21	. 1
REMOVAL C	OST	REPLACEMENT COSTS	TOTAL COST	S
\$85,61	<del>o</del> '	\$13,243	\$98,853	
	-	AREA TOTAL	\$98,853	-
MANAGEMENT PRIORITY	PLAN RECOMMI	ENDATION	EASURES:	
1		See Part I a	nd O&M Code: OMD	
		RESPONSE ACTION S	CHEDULE	
1		START DATE	COMPLETION I	DATE
	Aug 12, 19	R8	   Aug 25, 1988	
	he material has be ontact, age, and p anovations and/or s delaminating fro hich it was applie REMOVAL C \$85,61 MANAGEMENT PRIORITY 1	<pre>he material has been damaged r ontact, age, and previous anovations and/or repair work s delaminating from the surfac hich it was applied.  REMOVAL COST  REMOVAL COST  \$85,610 MANAGEMENT PLAN RECOMM PRIORITY: 1  Aug 12, 19 </pre>	<pre>Ne material has been damaged by high ontact, age, and previous enovations and/or repair work and s delaminating from the surface to hich it was applied.  REMOVAL COST   REPLACEMENT COSTS \$85,610 \$13,243 AREA TOTAL S85,610 \$13,243 AREA TOTAL AREA TOTAL PRIORITY: PREVENTIVE M 1 See Part I a RESPONSE ACTION S Aug 12, 1988</pre>	Name       12         Image: State of the surface of the sur

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# West Linn S.D. 3JT 37-0050

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AMPUS : 006 - Williamette			Inspected	SV: Gary Adler
			Certificat	on #: HK80026 St: KS
UTIDING : 001 - Williamette Ma	in Bldg		State C	ert #: St.
nspection Dates: 07/19/88 to 0	4/24/89		Gross Squar	<b>Ft:</b> 74.320
MATERIAL QUANTITIES	REMOVAL	COST	REPLACEMENT COSTS	TOTAL COSTS
l	İ			I
j 3300 Square Feet	\$56,9	58	\$8,811	\$65,769
			AREA TOTAL	\$65,769
	MANAGEMENT	PLAN RECOM	MENDATION	
ECOMMENDED RESPONSE ACTION:	PRIORIT	Y:	PREVENTIVE ME	ASURES:
an Maincain/Monicol	4		See Fait I am	
EA RESPONSE:			RESPONSE ACTION SC	HEDULE
CTION ELECTION:		1		
Same as recommended		1	START DATE	COMPLETION DATE
EA COMMENTS:		   Summer 19	89	Ongoing
·····	* INSPECTION RESULT	S UNIFIED S	AMPLING AREA NUMBER - 13 *	* *
AMAGE CATEGORY:	REASON for DAMAGE	CATEGORY :	POTENTIAL FOR DIS	TURBANCE: SAMPLE# %
NAMAGE CATEGORY: CEM with Potential for Damage	REASON for DAMAGE The material is of	CATEGORY: bserved to b	POTENTIAL FOR DIS	TURBANCE: SAMPLE# %
AMAGE CATEGORY: CBM with Potential for Damage	REASON for DAMAGE The material is of good condition.	CATEGORY: pserved to b	POTENTIAL FOR DIS e in Slight	TURBANCE: SAMPLE# % 30 31
AMAGE CATEGORY: CBM with Potential for Damage	REASON for DAMAGE The material is of good condition.	CATEGORY: pserved to b	POTENTIAL FOR DIS e in Slight	TURBANCE: SAMPLE# % 30 31 32
AMAGE CATEGORY: CBM with Potential for Damage MATERIAL QUANTITIES	REASON for DAMAGE The material is of good condition.	CATEGORY: oserved to b	POTENTIAL FOR DIS e in Slight REPLACEMENT COSTS	TURBANCE: SAMPLE# % 30 31 32 TOTAL COSTS
AMAGE CATEGORY: CBM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet	REASON for DAMAGE The material is of good condition. REMOVAL	CATEGORY: bserved to b COST	POTENTIAL FOR DIS e in Slight REPLACEMENT COSTS \$1,869	TURBANCE: SAMPLE# % 30 31 32 1 TOTAL COSTS \$13,951
AMAGE CATEGORY: CBM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet	REASON for DAMAGE The material is of good condition. REMOVAL	CATEGORY: pserved to b COST	POTENTIAL FOR DIS to in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL	TURBANCE: SAMPLE# % 30 3 31 3 2 3 1 TOTAL COSTS \$13,951 \$13,951
AMAGE CATEGORY: CEM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet	REASON for DAMAGE The material is of good condition. REMOVAL \$12,0	CATEGORY: Deserved to b COST	POTENTIAL FOR DIS e in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL MENDATION	TURBANCE: SAMPLE# % 30 31 32 1 TOTAL COSTS \$13,951 \$13,951
AMAGE CATEGORY: CEM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet ECOMMENDED RESPONSE ACTION:	REASON for DAMAGE The material is of good condition. REMOVAL \$12,0 \$12,0 FIORT	CATEGORY: DServed to b COST	POTENTIAL FOR DIS te in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL MENDATION PREVENTIVE ME	TURBANCE: SAMPLE# % 30 31 32 TOTAL COSTS \$13,951 \$13,951 CASURES:
AMAGE CATEGORY: CBM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet ECOMMENDED RESPONSE ACTION: EM Maintain/Monitor	REASON for DAMAGE The material is of good condition.	CATEGORY: Deserved to b COST   D82 F PLAN RECOM TY:	POTENTIAL FOR DIS e in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL MENDATION	TURBANCE: SAMPLE# % 30 31 32 TOTAL COSTS \$13,951 S13,951 CASURES: ad OaM Code: OMD
AMAGE CATEGORY: CEM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet ECOMMENDED RESPONSE ACTION: 4M Maintain/Monitor EA RESPONSE:	REASON for DAMAGE The material is of good condition. REMOVAL \$12,0 \$12,0 PRIORIT 2	CATEGORY: Deserved to b COST	POTENTIAL FOR DIS te in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL MENDATION	TURBANCE: SAMPLE# % 30 31 32 TOTAL COSTS \$13,951 \$13,951 CASURES: Id OaM Code: OMD HEDULE
AMAGE CATEGORY: CEM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet ECOMMENDED RESPONSE ACTION: AM Maintain/Monitor EA RESPONSE: CTION ELECTION:	REASON for DAMAGE The material is of good condition. REMOVAL \$12,0 \$12,0 PRIORIT 2	CATEGORY: Deserved to b COST	POTENTIAL FOR DIS te in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL MENDATION	TURBANCE: SAMPLE# % 30 31 32   TOTAL COSTS \$13,951 \$13,951 CASURES: d O&M Code: OMD HEDULE 
AMAGE CATEGORY: CEM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet ECOMMENDED RESPONSE ACTION: M Maintain/Monitor EA RESPONSE: CTION ELECTION: Same as recommended	REASON for DAMAGE The material is of good condition. REMOVAL \$12,0 \$12,0 PRIORIT 2	CATEGORY: DServed to b COST	POTENTIAL FOR DIS e in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL MENDATION	TURBANCE: SAMPLE# % 30 31 32 TOTAL COSTS \$13,951 CASURES: Ad OgM Code: OMD HEDULE COMPLETION DATE
AMAGE CATEGORY: CEM with Potential for Damage MATERIAL QUANTITIES 700 Square Feet ECOMMENDED RESPONSE ACTION: 4M Maintain/Monitor EA RESPONSE: CTION ELECTION: Same as recommended EA COMMENTS:	REASON for DAMAGE The material is of good condition. REMOVAL \$12,0 MANAGEMENT PRIORIT 2	CATEGORY: DServed to b COST 082 T PLAN RECOM TY: Summer 15	POTENTIAL FOR DIS te in Slight REPLACEMENT COSTS \$1,869 AREA TOTAL MENDATION	TURBANCE: SAMPLE# % 30 31 32 TOTAL COSTS \$13,951 CASURES: ad OaM Code: OMD THEDULE COMPLETION DATE Ongoing

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CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg Inspection Dates: 07/19/88 to 07/14/89

### AHERA COMPLIANCE PROGRAM

West Linn S.D. 3JT 37-0050

Inspected By: Gary Adler Certification #: HK80026 St: KS State Cert #: St: Gross Square Ft: 74,320

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MATERIAL QUANTITIES	REMOVAL (	OST   1	REPLACEMENT COSTS	TOTAL COSTS
3300 Square Feet	3300 Square Feet \$56,95		\$8,811	\$65,769
			AREA TOTAL	\$65,769
RECOMMENDED RESPONSE ACTION: 0&M Maintain/Monitor	MANAGEMENT PRIORITY 2	PLAN RECOMMENDAT	PREVENTIVE MEA See Part I and	SURES: OLM Code: OMD
LEA RESPONSE:			RESPONSE ACTION SCH	EDULE
ACTION ELECTION: Same as recommended		STAI	RT DATE	COMPLETION DATE
COMMENTS:		Summer 1989		Ongoing
******	*************	 ***************	*******	۱۲ ********************************
*	* INSPECTION RESULTS	S UNIFIED SAMPLE	NG AREA NUMBER - 13 *	* *
SYSTEM: Surfacing Mat.	LOCATION: Basement		TYPE OF MATERIAL:	Acoustical/Thermal Plaster
DAMAGE CATEGORY: ACEM with Potential for Damage	REASON for DAMAGE ( The material is ob good condition.	CATEGORY: served to be in	POTENTIAL FOR DIST Slight	URBANCE: SAMPLE# %ASE 30 25 31 30 32 25
MATERIAL QUANTITIES	REMOVAL	COST	REPLACEMENT COSTS	TOTAL COSTS
700 Square Feet	\$12,00	<u></u> 1	\$1,869	\$13,951
1			AREA TOTAL	\$13,951
RECOMMENDED RESPONSE ACTION: O&M Maintain/Monitor		PLAN RECOMMENDA Y:	TIONPREVENTIVE MEA See Part I and	SURES:
LEA RESPONSE:			RESPONSE ACTION SCH	EDULE
ACTION ELECTION: Same as recommended		   sta	RT DATE	COMPLETION DATE
comments:		Summer 1989		Ongoing
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West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Inspection Dates: 07/19/88 to 04,	n Bldg /24/89	SU Inspected By Certificatio State Cer Gross Square	: Gary Adler n #: HK80026 st: KS t #: St: Ft: 74,320
MATERIAL QUANTITIES	REMOVAL COST	REPLACEMENT COSTS	TOTAL COSTS
200 Square Feet		AREA TOTAL	\$0
ECOMMENDED RESPONSE ACTION:	MANAGEMENT PLAN RE PRIORITY:	COMMENDATION	URES:
I/A	0	See Part I and	OLM Code:
LEA RESPONSE:		RESPONSE ACTION SCHE	DULE
ACTION ELECTION:		START DATE	COMPLETION DATE
LEA COMMENTS:		N/A	N/A
SYSTEM: Floor Matl.	LOCATION: All Floors in Building	TYPE OF MATERIAL: V	'inyl Floor Tile
SYSTEM: Floor Matl. DAMAGE CATEGORY: ACEM with Potential for Damage	LOCATION: All Floors in Building REASON for DAMAGE CATEGORY The material is observed t good condition.	TYPE OF MATERIAL: V : POTENTIAL FOR DISTU o be in Slight	Vinyl Floor Tile RBANCE: SAMPLE# 51
DAMAGE CATEGORY: ACEM with Potential for Damage	LOCATION: All Floors in Building REASON for DAMAGE CATEGORY The material is observed t good condition.	TYPE OF MATERIAL: V : POTENTIAL FOR DISTU o be in Slight   REPLACEMENT COSTS	Vinyl Floor Tile TRBANCE: SAMPLE# 51 TOTAL COSTS
DAMAGE CATEGORY: ACEM with Potential for Damage	LOCATION: All Floors in Building REASON for DAMAGE CATEGORY The material is observed t good condition.	TYPE OF MATERIAL: V : POTENTIAL FOR DISTU o be in Slight   REPLACEMENT COSTS   \$115,200	Vinyl Floor Tile TRBANCE: SAMPLE# 51 TOTAL COSTS \$266,850
SYSTEM: Floor Matl. DAMAGE CATEGORY: ACEM with Potential for Damage MATERIAL QUANTITIES 45000 Square Feet	LOCATION: All Floors in Building REASON for DAMAGE CATEGORY The material is observed t good condition.	TYPE OF MATERIAL: V POTENTIAL FOR DISTU o be in Slight REPLACEMENT COSTS   \$115,200 AREA TOTAL	Vinyl Floor Tile TRBANCE: SAMPLE# 51 TOTAL COSTS \$266,850 \$266,850
DAMAGE CATEGORY: ACEM with Potential for Damage MATERIAL QUANTITIES 45000 Square Feet RECOMMENDED RESPONSE ACTION: OLM Maintain/Monitor	LOCATION: All Floors in Building REASON for DAMAGE CATEGORY The material is observed t good condition.	TYPE OF MATERIAL: V POTENTIAL FOR DISTU- o be in Slight REPLACEMENT COSTS   Sil5,200 AREA TOTAL COMMENDATION	Vinyl Floor Tile JRBANCE: SAMPLE# 51 TOTAL COSTS \$266,850 \$266,850 SURES: OEM Code: OMI, OMZ
DAMAGE CATEGORY: ACEM with Potential for Damage MATERIAL QUANTITIES 45000 Square Feet RECOMMENDED RESPONSE ACTION: OLM Maintain/Monitor LEA RESPONSE:	LOCATION: All Floors in Building REASON for DAMAGE CATEGORY The material is observed t good condition.	TYPE OF MATERIAL: V : POTENTIAL FOR DISTU o be in Slight   REPLACEMENT COSTS     S115,200 AREA TOTAL COMMENDATION	Vinyl Floor Tile VRBANCE: SAMPLE# 51 TOTAL COSTS \$266,850 \$266,850 SURES: OLM Code: OMI, OMZ EDULE
DAMAGE CATEGORY: ACEM with Potential for Damage MATERIAL QUANTITIES 45000 Square Feet RECOMMENDED RESPONSE ACTION: OLM Maintain/Monitor LEA RESPONSE: ACTION ELECTION: Same as recommended	LOCATION: All Floors in Building REASON for DAMAGE CATEGORY The material is observed t good condition.	TYPE OF MATERIAL: V POTENTIAL FOR DISTU- o be in Slight REPLACEMENT COSTS   \$115,200 AREA TOTAL COMMENDATION	Vinyl Floor Tile URBANCE: SAMPLE# 51 TOTAL COSTS \$266,850 \$266,850 SURES: OLM Code: OMI, OMZ SDULE COMPLETION DATE

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### AHERA COMPLIANCE PROGRAM

West Linn S.D. 3JT 37-0050

CAMPUS : 006.- Williamette BUILDING : 001 - Williamette Main Bldg Inspection Dates: 07/19/88 to 07/14/89

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Inspected By: Gam	ry Adler
Certification #:	HK80026 St: KS
State Cert #:	St:
Gross Square Ft:	74,320

MATERIAL QUANTITIES	REMOVAL COST	REPLACEMENT COSTS	TOTAL COSTS
200 Square Feet		······	
		AREA TOTAL	\$0
	MANAGEMENT PLAN R	ECOMMENDATION	* * * * * * * * * * * * * *
RECOMMENDED RESPONSE ACTION: N/A	PRIORITY: 0	See Part I and	SORES: 1 OEM Code:
LEA RESPONSE:		RESPONSE ACTION SCH	IEDULE
ACTION ELECTION:		START DATE	COMPLETION DATE
COMMENTS:		N/A	N/A
*****	*****	*****	***************************************
*	* * INSPECTION RESULTS UNIFI	ED SAMPLING AREA NUMBER - 75 *	* *
· · · · · · · · · · · · · · · · · · ·	All Floors in Building		
DAMAGE CATEGORY: N/A	REASON for DAMAGE CATEGOR N/A	Y: POTENTIAL FOR DIST N/A	FURBANCE: SAMPLE# %ASE 20 0 21 0 22 0 23 0 24 0
MATERIAL QUANTITIES	REMOVAL COST	REPLACEMENT COSTS	TOTAL COSTS
5000 Square Feet	······································	······	//
		AREA TOTAL	\$0
RECOMMENDED RESPONSE ACTION: N/A	MANAGEMENT PLAN R PRIORITY: 0	PREVENTIVE ME. See Part I and	ASURES: d O&M Code:
LEA RESPONSE:		RESPONSE ACTION SC	HEDULE
ACTION ELECTION:		START DATE	COMPLETION DATE
COMMENTS:		N/A	N/A
*******	*****		******

02/16/90

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#### AHERA COMPLIANCE PROGRAM *** BOILER ROOM SUMMARY *** West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg BOILER RM: 1

Inspected By: Gary Adler Certification #: HK80026 State Cert #:

st: KS St:

BOILER

DAMAGE CATEGORY: ACBM with Potential for Damage REASON for DAMAGE CATEGORY: The material is observed to be in good condition.

POTENTIAL FOR DISTURBANCE: Slight

SMP	<b>%ASB</b> *	SYSTEM ID		LOC	ATION	MATERIAL DESCRIPTION	MATERIAL QUANTITY
85	75% Mec	h. Insul.	SOUTH	EAST	CORNER	Boiler/Tank Insulation	350 Square Feet
86	80% Mec	h. Insul.	SOUTH	EAST	CORNER	Boiler/Tank Insulation	
87	80% Mec	h. Insul.	South	EAST	CORNER	Boiler/Tank Insulation	
					MANAGEMEN	PLAN RECOMMENDATION	
RECOM	MENDED RE	SPONSE ACTION:			PRIORI	TY: PREVENTIVE	MEASURES :
D&M Ma	aintain/M	onitor			3	See Part I	and O&M Code: OMB
LEA RE	ESPONSE:	NT 4				RESPONSE ACTION	SCHEDULE,
CITO	Same as	recommended				START DATE	COMPLETION DATE
COMMEN	NT:					Summer 1989	Ongoing
*****	*******	******	******	*****	*******		
JOIN	VTS						

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DAMAGE CATEGORY: ACBM with Potential for Damage REASON for DAMAGE CATEGORY: The material is observed to be in good condition.

POTENTIAL FOR DISTURBANCE: Slight

SMP	%ASB* S	YSTEM ID	LOCATION	MATERIAL DESCRIPTION	MATERIAL QUANTITY
92	70% Low Pr	. Steam WES	T SIDE OF TANK	UP on Pipe Covering	30 6 In. O. D.
92	70% Low Pr	. Steam WES	r side of tank M	UP on Pipe Covering	8 14 In. O.D.
94	70% Dom. H	ot Water NW	CORNER OVER STAIRS	UP on Wrapped Pipe Cover	45 4 In. O. D.

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	AHERA COMPLIANCE PROGRAM	1	
	*** BOILER ROOM SUMMARY	***	
	West Linn S.D. 3JT		
AMPUS : 006 - Williamette	37-0050	Inspected	By: Gary Adler
UILDING : 001 - Williamette Main Bldg		Certifica	tion #: HK80026 St: KS
OILER RM: 1		State	Cert #: St:
65% Dom. Cold Water DHW TANK S SIDE	MJP on Wrapp	ped Pipe Cover	35 4 In. O. D.
	ANAGEMENT PLAN RECOMMENDATIO		
ECOMMENDED RESPONSE ACTION:	PRIORITY:	PREVENTIVE M	EASURES:
EM Maintain/Monitor	3	See Part I a	nd O&M Code: OMA
EA RESPONSE:		RESPONSE ACTION S	CHEDULE
CTION ELECTION:	l		1
Same as recommended	START	DATE	COMPLETION DATE
EA COMMENT:	Summer 1989		-Ongoing
DTDTNC	******	******	*******
NAMAGE CATEGORY:	REASON for DAMAGE CATEGOR	χ:	POTENTIAL FOR DISTURBAN
CBM with Potential for Damage	The material is observed a good condition.	to be in	Slight

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171 <b>x</b>	ASB* SYSTEM ID	LOCATION	MATERIAL DESCRIPTION	MATERIAL QUANTITY
	60% Low Pr. Steam	WEST SIDE OF TANK	Pipe Covering	250 Ft. 6 In. O.D.
	60% Low Pr. Steam	WEST SIDE OF TANK	Pipe Covering	35 Ft. 14 In. O.D.
	4% Dom. Hot Water	NW CORNER OVER STAIRS	Wrapped Paper Pipe Cover	200 Ft. 4 In. O.D.
	22% Dom. Cold Water	DHW TANK SW CORNER	Wrapped Paper Pipe Cover	200 Ft. 4 In. O.D.
	RECOMMENDED RESPONSE ACTI	ON: PRIORIT	PLAN RECOMMENDATION	ASURES:
	OEM Maintain/Monitor	3	See Part I an	d OEM Code: OMA
	LEA RESPONSE:		RESPONSE ACTION SC	HEDULE
	ACTION ELECTION:			
	Same as recommended	1	START DATE	COMPLETION DATE
	LEA COMMENT:		Summer 1989	Ongoing
	*************	******************	******************	*******************

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Inspected By: Gary Adler

West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg Certification #: HK80026 St: KS State Cert #: st: Inspection Dates: 07/19/88 to 04/24/89 Gross Square Ft: 74,320 * * * INSPECTION RESULTS UNIFIED SAMPLING AREA NUMBER - 02 * * * TYPE OF MATERIAL: Wrapped Paper Pipe Cover SYSTEM: Low Pr. Steam LOCATION: All Floors in Building . . . . . . . . . . . REASON for DAMAGE CATEGORY: POTENTIAL FOR DISTURBANCE: SAMPLE# DAMAGE CATEGORY : **XASB** ACEM with Potential for Damage The material is observed to be in Slight 97 35 good condition. 98 5 99 50 MATERIAL QUANTITIES REMOVAL COST REPLACEMENT COSTS TOTAL COSTS Т \$1,535 275 Ft. 4 In. O.D. \$2,453 \$3.988 456 Ft. 6 In. O.D. \$5,919 \$3,698 \$9,617 AREA TOTAL \$13,605 RECOMMENDED RESPONSE ACTION: PRIORITY: PREVENTIVE MEASURES: See Part I and OEM Code: OMA OSM Maintain/Monitor 3 RESPONSE ACTION SCHEDULE LEA RESPONSE: ACTION ELECTION: START DATE COMPLETION DATE Same as recommended Summer 1989 Ongoing LEA COMMENTS: ******* **** * * * INSPECTION RESULTS UNIFIED SAMPLING AREA NUMBER - 03 * * * TYPE OF MATERIAL: MJP on Wrapped Pipe Cover LOCATION: SYSTEM: Low Pr. Steam All Floors in Building - -

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DAMAGE CATEGORY: ACBM with Potential for Damage	REASON for DAMAGE CATEGORY: The material is observed to be in	POTENTIAL FOR DISTURBANCE: Slight	Sample# 00	¥ASB 60
······	good condition.	-	01	65
	-		02	60

West Linn S.D. 3JT 37-0050

Inspected By: Gary Adler CAMPUS : 006 - Williamette Certification #: HK80026 St: KS BUILDING : 001 - Williamette Main Bldg State Cert #: St: Inspection Dates: 07/19/88 to 04/24/89 Gross Square Ft: 74,320 * * * INSPECTION RESULTS UNIFIED SAMPLING AREA NUMBER - 02 * * * SYSTEM: Low Pr. Steam LOCATION: TYPE OF MATERIAL: Wrapped Paper Pipe Cover All Floors in Building . . . . . . . . . . . . . DAMAGE CATEGORY: REASON for DAMAGE CATEGORY: POTENTIAL FOR DISTURBANCE: SAMPLE# **KASB** ACBM with Potential for Damage The material is observed to be in Slight 97 35 good condition. 98 5 99 50 MATERIAL QUANTITIES REMOVAL COST REPLACEMENT COSTS TOTAL COSTS 275 Ft. 4 In. O.D. \$2,453 \$1,535 \$3,988 456 Ft. 6 In. O.D. \$5,919 \$3,698 \$9,617 \$13,605 AREA TOTAL RECOMMENDED RESPONSE ACTION: PREVENTIVE MEASURES: PRIORITY: O&M Maintain/Monitor 3 See Part I and O&M Code: OMA LEA RESPONSE: RESPONSE ACTION SCHEDULE ACTION ELECTION: COMPLETION DATE Same as recommended START DATE LEA COMMENTS: Summer 1989 Ongoing * * * INSPECTION RESULTS UNIFIED SAMPLING AREA NUMBER - 03 * * * TYPE OF MATERIAL: MJP on Wrapped Pipe Cover SYSTEM: Low Pr. Steam LOCATION: All Floors in Building POTENTIAL FOR DISTURBANCE: **&ASB** DAMAGE CATEGORY: REASON for DAMAGE CATEGORY: SAMPLE# 00 60 ACBM with Potential for Damage The material is observed to be in Slight good condition. 01 65

02

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02/16/90	AHERA COMPLIANCE PROGRAM			
CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Ma Inspection Dates: 07/19/88 to (	Win Bldg 07/14/89	est Linn S.D. 37-0050	3JT Inspected B Certificati State Ce Gross Squar	y: Gary Adler on #: HK80026 St: KS rt #: St: e Ft: 74,320
·····	* * INSPECTION RESULT	S UNIFIED SAM	PLING AREA NUMBER - 05 *	* *
SYSTEM: Dom. Hot Water	LOCATION: All Floors in Build	ling	TYPE OF MATERIAL:	MJP on Wrapped Pipe Cover
DAMAGE CATEGORY: ACEM with Potential for Damage	REASON for DAMAGE The material is ob	CATEGORY: served to be	POTENTIAL FOR DIST in Slight	URBANCE: SAMPLE# %AS 06 65 07 60
	J DEMOVAL		DEDI ACEMENTI COCTE	08 60
		······		
120 4 11. 0. 5.	د, دې	/ <b>1</b>	AREA TOTAL	\$5,244
RECOMMENDED RESPONSE ACTION: O&M Maintain/Monitor	MANAGEMENT PRIORIT 3	PLAN RECOMME	NDATION	SURES: I O&M Code: OMA
LEA RESPONSE:			RESPONSE ACTION SCH	
ACTION ELECTION: Same as recommended			START DATE	COMPLETION DATE
COMMENTS :		Summer 1989		Ongoing
*****	*******	******	*****	
*	* * INSPECTION RESULT	S UNIFIED SAM	PLING AREA NUMBER - 06 *	* *
SYSTEM: Dom. Cold Water	LOCATION: All Floors in Buil	ding	TYPE OF MATERIAL:	Wrapped Paper Fipe Cover
DAMAGE CATEGORY: N/A	REASON for DAMAGE N/A	CATEGORY :	Potential for dist N/A	TURBANCE: SAMPLE# %AS 09 0 10 0 11 0

### 02/16/90

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#### AHERA COMPLIANCE PROGRAM

West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg Inspection Dates: 07/19/88 to 07/14/89

Inspected By:	Gaı	ry Adler		
Certification	#:	HK80026	St:	KS
State Cert	#:		st:	
Gross Square F	t:	74.32	0	

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MATERIAL QUANTITIES	REMOVAL COST	REPLACEMENT COSTS	TOTAL COSTS
75 Ft. 4 In. O.D		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		AREA TOTAL	\$0
	MANAGEMENT PLAN REC	OMMENDATION	
ACTION:	PRIORITY: 0	See Part I and	SURES: O&M Code:
Lea Response: Action Election:	1	RESPONSE ACTION SCH	
	ļ	START DATE	COMPLETION DATE
COMMENTS :		N/A	   N/A
	i		l
***************************************	************************	*************************	*******************
* *	* INSPECTION RESULTS UNIFIED	SAMPLING AREA NUMBER - 07 *	* *
YSTEM: Dom. Cold Water	LOCATION: All Floors in Building	TYPE OF MATERIAL:	MJP on Wrapped Pipe Cover
NAMAGE CATEGORY: ACEM with Potential for Damage	REASON for DAMAGE CATEGORY: The material is observed to good condition.	POTENTIAL FOR DIST	URBANCE: SAMPLE# %A 12 5 13 5
			14 6
MATERIAL QUANTITIES	REMOVAL COST	REPLACEMENT COSTS	TOTAL COSTS
76 4 In. O. D.	\$2,135	\$1,186	\$3,321
		AREA TOTAL	\$3,321
<del> </del>	MANAGEMENT PLAN REC	COMMENDATION	
RECOMMENDED RESPONSE ACTION:	PRIORITY:	PREVENTIVE MEA	SURES:
)&M Maintain/Monitor	3	See Part I and	O&M Code: OMA
LEA RESPONSE:		RESPONSE ACTION SCH	EDULE

ACTION ELECTION: Same as recommended	START DATE	COMPLETION DATE						
COMMENTS:	Summer 1989	Ongoing						
******		******						
CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg Inspection Dates: 07/19/88 to 07/14/89		in Bldg 7/14/89	We	st Linn S. 37-0050	d. 3jt	Inspected B Certificati State Ce Gross Squar	y: Gary Adler on #: HK80026 s rt #: s • Ft: 74,320	it: KS it:
----------------------------------------------------------------------------------------------------------------	------------------------	-------------------------	---------------------------	-----------------------	----------	-------------------------------------------------------	-------------------------------------------------------------	------------------
   	* *	* INSPECTION	N RESULTS	UNIFIED S	AMPLING	AREA NUMBER - 08 *	* *	·
SYSTEM:	: Ceiling Matl.	LOCATION: Basement				TYPE OF MATERIAL:	Acoustical Tile (	(1x1)
Damage N/A	CATEGORY :	REASON for N/A	DAMAGE C	ategory :		POTENTIAL FOR DIST N/A	TURBANCE: SAME 15	PLE# %ASB 5 0
[	MATERIAL QUANTITIES		REMOVAL C	OST	REI	PLACEMENT COSTS	TOTAL COST	is j
	6000 Square Feet	¹	. <u></u>			AREA TOTAL	\$0	-
RECOMM N/A	ENDED RESPONSE ACTION:	MA	NAGEMENT PRIORITY 0	PLAN RECON	MENDATIC	DN PREVENTIVE MEA See Part I and	SURES:	′
LEA RES	SPONSE :		,			RESPONSE ACTION SCH	EDULE	<u> </u>
ACTION	ELECTION:		1		START	DATE	COMPLETION I	DATE
COMMENT	rs:				N/A		N/A	1
*****	*******	*****	********	********	*******	*****		********
[	* *	* INSPECTIO	N RESULTS	UNIFIED :	AMPLING	AREA NUMBER - 09 *	* *	
SYSTEM:	: Ceiling Matl.	LOCATION: All floors	in Build	ling		TYPE OF MATERIAL:	Drop or Lay-in Pa	anel
damage N/a	CATEGORY :	REASON for N/A	DAMAGE	Category :		POTENTIAL FOR DIST N/A	TURBANCE: SAM 10	Ple# %Ase 5 0

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#### 02/16/90

#### AHERA COMPLIANCE PROGRAM

West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg Inspection Dates: 07/19/88 to 07/14/89

Inspected By:	Gai	y Adler		
Certification	<b>#:</b>	HK80026	St:	KS
State Cert	<b>#:</b>		St:	
Gross Square F	't:	74,32	0	

MATERIAL QUANTITIES	REMOVAL COST	REPLACEMENT COSTS	TOTAL COSTS
17000 Square Feet	·	·····	
		AREA TOTAL	\$0
COMMENDED RESPONSE ACTION:	MANAGEMENT PLAN RECOM	MENDATION	URES:
A	0	See Part I and	O&M Code:
A RESPONSE:		RESPONSE ACTION SCHE	DULE
HOW ELECTION.		START DATE	COMPLETION DATE
mments:		N/A	N/A
*****	*****	****	*****

* * * INSPECTION RESULTS UNIFIED SAMPLING AREA NUMBER - 10 * * *

SYSTEM:	Surfacing	Mat.
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LOCATION: First Floor TYPE OF MATERIAL: Acoustical/Thermal Plaster

DAMAGE CATEGORY:	REASON for DAMAGE CATEGORY:	POTENTIAL FOR	DISTURBANCE :	SAMPLE#	<b>%ASB</b>
Significantly Damaged Friable	The material has been damaged by	High		17	15
Surfacing ACM. See floor plans	contact, age, and previous			18	10
for specific damaged areas.	renovations and/or repair work and			19	15
	is delaminating from the surface to			20	10
	which it was applied.			21	15
	•				

MATERIAL QUANTITIES	REMOVAL COST	REPLACEMENT COSTS	TOTAL COSTS
4960 Square Feet	\$85,610	\$13,243	\$98,853
		AREA TOTAL	\$98,853
	MANAGEMENT PLAN RECOM	MENDATION	

 RECOMMENDED RESPONSE ACTION:
 PRIORITY:

 Gross Removal
 1

See Part I and O&M Code: OMD

LEA RESPONSE: ACTION ELECTION:	RI	ESPONSE ACTION SCH	EDULE
Same as recommended	START DA	ATE	COMPLETION DATE
COMMENTS:	Aug 12, 1988		Aug 25, 1988
Removed Aug. 12, 1900-Aug. 23, 1900.	*****	*****	 ******************************

West Linn S.D 37-0050 Bldg 14/89 INSPECTION RESULTS UNIFIED SA LOCATION: First Floor REASON for DAMAGE CATEGORY: The material is observed to be good condition.	A. 3JT Inspected Certifics State Gross Squ MPLING AREA NUMBER - 11 TYPE OF MATERIAN TYPE OF MATERIAN POTENTIAL FOR DI in Slight REPLACEMENT COSTS \$2,403	d By: Gary Adler ation #: HK30026 St: P Cert #: St: uare Ft: 74,320 * * * L: Acoustical/Thermal P L: Acoustical/Thermal P 22 23 24 TOTAL COSTS \$17,937
INSPECTION RESULTS UNIFIED SA LOCATION: First Floor REASON for DAMAGE CATEGORY: The material is observed to be good condition.	MPLING AREA NUMBER - 11 TYPE OF MATERIAN POTENTIAL FOR D in Slight REPLACEMENT COSTS \$2,403	* * * L: Acoustical/Thermal P: ISTURBANCE: SAMPLE# 22 23 24   TOTAL COSTS \$17,937
LOCATION: First Floor REASON for DAMAGE CATEGORY: The material is observed to be good condition. REMOVAL COST	TYPE OF MATERIAI POTENTIAL FOR D in Slight REPLACEMENT COSTS \$2,403	L: Acoustical/Thermal P. ISTURBANCE: SAMPLE# 22 23 24   TOTAL COSTS \$17,937
REASON for DAMAGE CATEGORY: The material is observed to be good condition. REMOVAL COST	POTENTIAL FOR D in Slight REPLACEMENT COSTS \$2,403	ISTURBANCE: SAMPLE# 22 23 24   TOTAL COSTS   \$17,937
REMOVAL COST     \$15,534	REPLACEMENT COSTS \$2,403	TOTAL COSTS
\$15,534	\$2,403	\$17,937
	AREA TOTAL	L \$17,937
MANAGEMENT PLAN RECOMP PRIORITY: 1	TENDATION	MEASURES: and O&M Code: OMD
	RESPONSE ACTION	SCHEDULE
	START DATE	COMPLETION DATE
   Summer 198	39	Ongoing
i	******	****
INSPECTION RESULTS UNIFIED SA	AMPLING AREA NUMBER - 12	* * *
LOCATION: Basement	TYPE OF MATERIA	L: Acoustical/Thermal P
REASON for DAMAGE CATEGORY: The material is observed to be good condition.	POTENTIAL FOR D e in Slight	DISTURBANCE: SAMPLE# 25 26 27
	INSPECTION RESULTS UNIFIED SU LOCATION: Basement REASON for DAMAGE CATEGORY: The material is observed to be good condition.	REASON for DAMAGE CATEGORY: REASON for DAMAGE CATEGORY: The material is observed to be in good condition. POTENTIAL FOR D

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CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Maj Inspection Dates: 07/19/88 to 07	in Bldg 7/14/89	Mest Linn S. 37-0050	D. 3JT	Inspected B Certificati State Ce Gross Squar	y: Gary Adle on #: HK8002 rt #: e Ft: 74	r 6 st: Ki st: ,320	3
**	* INSPECTION RESULT	S UNIFIED S	AMPLING AREA NU	MBER - 14 *	* *		
SYSTEM: Surfacing Mat.	LOCATION: First Floor		TYPE C	F MATERIAL:	Fireproofing	1	
DAMAGE CATEGORY: ACEM with Potential for Damage	REASON for DAMAGE The material is of good condition.	CATEGORY: Diserved to h	POTENI De in S	TAL FOR DIST light	URBANCE :	SAMPLE# 33	¥ASB 60
MATERIAL QUANTITIES	REMOVAL	COST	REPLACEMEN	T COSTS	TOTAL	COSTS	!
250 Square Feet	\$3,:	225		\$758	\$3	,983	¦
				AREA TOTAL	\$3	,983	
RECOMMENDED RESPONSE ACTION: 06M Maintain/Monitor	– – – – – MANAGEMEN PRIORIT 2	PLAN RECOM	MENDATION PF Se	EVENTIVE MEA	SURES: I OEM Code: (	DMC	
LEA RESPONSE:		· <u></u>	RESPONS	E ACTION SCH	EDULE		
ACTION ELECTION: Same as recommended			START DATE		COMPLET	NON DATE	
commentes :		Summer 19	989		Ongoing		
*************************	*************	1	*******	*******	*****	********	****
* *	* INSPECTION RESULT	S UNIFIED S	SAMPLING AREA NU	MBER - 15 *	* *		
SYSTEM: Ceiling Matl.	LOCATION: Basement		TYPE C	OF MATERIAL:	Drop or Lay-	-in Panel	'
DAMAGE CATEGORY: N/A	REASON for DAMAGE N/A	CATEGORY:	POTEN	TIAL FOR DIS	FURBANCE :	Sample# 34	¥asb 0

AHERA COMPLIANCE PROGRAM

02/16/90

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02/16/90	AHERA	COMPLIANCE PROGRAM	<b>n</b>		
CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Ma Inspection Dates: 07/19/88 to 0	in Bldg 7/14/89	st Linn S.D. 3JT 37-0050	Inspected B Certificati State Ce Gross Squar	y: Gary Adler on #: HK80026 st: KS rt #: st: e Ft: 74,320	
* *	* INSPECTION RESULTS	UNIFIED SAMPLING	AREA NUMBER - 99 *	* *	
SYSTEM: Floor Matl.	LOCATION: All Floors in Build	ling	TYPE OF MATERIAL:	Vinyl Floor Tile	
DAMAGE CATEGORY: ACBM with Potential for Damage	REASON for DAMAGE ( The material is obs good condition.	CATEGORY: served to be in	POTENTIAL FOR DIST Slight	URBANCE: SAMPLE# 51	₹ASB 6
45000 Square Feet		50	\$115,200	\$266,850	
	(124)		AREA TOTAL	\$266,850	
RECOMMENDED RESPONSE ACTION: OLM Maintain/Monitor LEA RESPONSE: ACTION ELECTION: Same as recommended	MANAGEMENT PRIORITY 3	PLAN RECOMMENDATI	ON	SURES: I OEM Code: OMI, OMZ HEDULE COMPLETION DATE	'
COMMENTS:		Summer 1989		Ongoing	ļ
*********	*****	 ***********	****	 *******	***

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02/16/90 CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main BOILER RM: 1	AHERA COMPLIANCE PROGRAM *** BOILER ROOM SUMMARY *** West Linn S.D. 3JT 37-0050 Bldg	Inspected By: Gary Adler Certification #: HK80026 St: KS State Cert #: St:
96 65% Dom. Cold Water DHW	TANK S SIDE MJP on Wrapped MANAGEMENT PLAN RECOMMENDATION PRIORITY:	d Fipe Cover 35 4 In. O. D. PREVENTIVE MEASURES:
EA RESPONSE: CTION ELECTION: Same as recommended	RESP	ONSE ACTION SCHEDULE
COMMENT:	Summer 1989	Ongoing
**************************************	****	*********

DAMAGE CATEGORY: ACBM with Potential for Damage

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REASON for DAMAGE CATEGORY: The material is observed to be in good condition. POTENTIAL FOR DISTURBANCE: Slight

SMP	\$ASB*	System ID	LOCATION	MATERIAL DESCRIPTION	MATERIAL QUANTITY
91	60% Low	Pr. Steam	WEST SIDE OF TANK	Pipe Covering	250 Ft. 6 In. O.D.
91	60% Low	Pr. Steam	WEST SIDE OF TANK	Pipe Covering	35 Ft. 14 In. O.D.
93	4% Dom	. Hot Water	NW CORNER OVER STAIRS	Wrapped Paper Pipe Cover	200 Ft. 4 In. O.D.
95	22% Dom	. Cold Water	DHW TANK SW CORNER	Wrapped Paper Pipe Cover	200 Ft. 4 In. O.D.
RECOMMENDED RESPONSE ACTION: O&M Maintain/Monitor LEA RESPONSE:		PRIORIT: 3	K: PREVENTIVE MEA See Part I and RESPONSE ACTION SCH	Sures: 1 OSM Code: OMA 1EDULE	
ACTION ELECTION: Same as recommended			START DATE	COMPLETION DATE	
COMMEI	NT:			Summer 1989	Ongoing
*****	*******	************	********************	***************************************	*******

#### 02/16/90

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#### AHERA COMPLIANCE PROGRAM *** BOILER ROOM SUMMARY *** West Linn S.D. 3JT 37-0050

CAMPUS : 006 - Williamette BUILDING : 001 - Williamette Main Bldg BOILER RM: 1

Inspected By: Gary Adler Certification #: HK80026 State Cert #:

st: KS st:

TANK

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DAMAGE CATEGORY: ACBM with Potential for Damage REASON for DAMAGE CATEGORY: The material is observed to be in good condition.

POTENTIAL FOR DISTURBANCE: Slight

SMP	*ASB*	ASB* SYSTEM ID LOCATION		MATERIAL DESCRIPTION		MATERIAL QUANTITY	
88	75% Mec	h. Insul.	DHW TANK,	SOUTH SIDE	Boiler/Tank	Insulation	275 Square Feet
89	75% Mec	h. Insul.	DHW TANK,	SOUTH SIDE	Boiler/Tank	Insulation	
90	65% Mec	h. Insul.	DHW TANK,	SOUTH SIDE	Boiler/Tank	Insulation	
				-MANAGEMENT	PLAN RECOMMENDATION-		
RECOM	TENDED RE	SPONSE ACTION:		PRIORITY	¥:	PREVENTIVE M	EASURES :
OEM Ma	intain/M	onitor		3		See Part I a	nd O&M Code: OMB
LEA RI	SPONSE:	<b>19</b> -			RE	SPONSE ACTION S	CHEDULE
Same as recommended				START DA	COMPLETION DATE		
COMMENT:			Summer 1989		Ongoing		
*****	*******	************	********	********	{	******	****
				REMOVAL	COSTREPLA	CEMENT COSTS	TOTAL COSTS
	BOILER	ROOM ESTIMATES	COSTS	\$29,4	51	\$21,476	\$50,927

# ASBESTOS LOCATION DIAGRAMS

#### SAMPLE / MATERIAL LOCATION DIAGRAMS

As part of the AHERA Asbestos Inspection the locations of samples collected are recorded on building diagrams. In addition to the sample locations, specific damage areas are recorded where found. The following pages provide the sample location diagrams for the School District. These drawings are organized in the same manner as the inspection/management plan data, i.e. campus one building one is first.

The title block contains the specific state, district, campus, and building or code with a 12 digit number. Next is the District Name, the Campus Name, and finally the Building Name. The next block provides the date the drawing was made, the street number, and finally the H-K drawing number.

The drawing uses several symbols and cross-hatching patterns to illustrate the key elements of the survey information.

SAMPLE LOCATION: The specific locations of samples are found on a point on the drawing leading to a symbol indicating the sample number and the Bulk Sample (BS) Code, which represents the type of material sampled. The Bulk Sample Code descriptions used are as follows:

85 CODE	DESCRIPTION	SS CODE	DESCRIPTION
0	Unknown	26	Transite Pipe
i	Acoustical Plaster	27	Transite Hood
2	Acoustical/Thermal Insul	28	Aspestos Pada
3	Hardwell/Ceiling Plaster	29	Asbestos Glove
4	Vinvi Floor Tile	30	Asbestos Rope
5	Pipe Covering	31	Raw Asbestos
6	Corrugated Pipe Covering	32	Electrical Wiring
7	Wrapped Paper Pipe Cover	33	Fire Hose
8	Boiler/Tank Insulation	34	Fire Door
9	Breeching/Exhaust Packing	35	Fire Suit
10	Woven Paper/Tape	36	Fire Brick
11	Drop or Lay-in Panel	37	Lab Counter Top
12	Acoustical Tile (1x1)	38	Fiber Frack Kiln
13	Fire or Stage Curtain	39	Tongs
14	NJP on Non-Suspect Pipe	40	Poured in Insulation
15	MJP on Pipe Covering	41	Contaminated Soil
16	MJP on Corr. Pipe Cover	42	Tectum
17	NJP on Wrapped Pipe Cover	43	Floor Underlayment
18	Fireproofing	44	Hard Grout
19	Vibration Joint Cloth	45	Nortar
20	Interior Duct Insulation	46	Blown or Scratch Coat
21	Exterior Duct Insulation	47	* Oven/Autoclave Lining
22	Blown-in Insulation	48	Brake Lining
23	Stored Insulation	49	Theatre Curtain
24	Debris	50	Transite Siding
25	Gasket	99	Other

DAMAGE AREAS: When the inspector encounters a section of material in a Unified Sampling Area (USA) which contains localized damage in worse condition than the remainder of the same material contained in this USA, a Damage Area indicator is placed on the drawing. This symbol contains specific information about the damaged area.

Type of Material - The BS Code of the material is indicated so that the type of material can be determined. See the previous section for the listing of the BS codes used.

Quantity - The quantity of material which was found to be damaged is also indicated.

Location - The location of the localized damage is indicated in the symbol. This provides assistance in identifying where the damage can be found.

Response Action - This is the code for the recommended AHERA response action. The following codes are used:

- 1. Isolate Area Immediately
- 2. Gross Removal
- 3. Glove Bag Removal
- 4. Encapsulation
- 5. Enclosure
- 6. Repair and O&M
- 7. O&M and Monitor

CROSSHATCHING: Crosshatching patterns are used to detail the location of ceiling and floor material suspected of containing asbestos. There are three patterns used:

Floor Tile - This pattern is used to indicate floor tile and sheet flooring material suspected of containing asbestos.

Drop / Lay-in, Accoustical - This pattern is used to indicate the locations of a variety of ceiling tiles including, but not limited, to 1' x 1' and 2' x 4' lay-in panels.

Spray / Trowel Applied Materials - This pattern is used to indicate the presence of spray and trowel applied materials such as fireproofing and acoustical plaster.

LOCATION of CAUTION LABEL: The AHERA regulations require the use of labels indicating the presence of Asbestos Containing Building Material (ACBM). The label is to be place on or near ACBM in routine maintenance areas in all school buildings. When this label is applied in the field the inspector identifies its' location on the sample location diagram. On the drawing, the label symbol contains information about its placement within the routine maintenance area so that it may be readily found by the LEA. The label states the following.

CAUTION ASBESTOS. HAZARDOUS. DO NOT DISTURB WITHOUT PROPER TRAINING AND EQUIPMENT

The presence of sample numbers, crosshatching, and damage areas does not mean that all of the areas indicated contain asbestos. These location diagrams are a record of the field inspection only and are meant to show where samples were taken and what areas may be affected if asbestos is present. To determine which areas are affected, a review of the Inspection / Management Plan Data and the Petrographic Results contained in Sections 4 and 5 should be made. If desired, the location diagrams can be highlighted by the school district's asbestos coordinator to indicate the presence of asbestos containing material.









# CONSULTANTS COST ESTIMATES FOR ASBESTOS REMOVAL

#### DISTRICT COST SUMMARY

PROJECT NUMBER: 37-0050 DISTRICT NAME: West Linn S.D. 3JT			
CAMPUS: (001) West Linn High School	-REMOVAL COST -	REINSULATION COST	
BUTLDING: (001) West Linn High Main Bldg.	\$1.000.662	\$521 450	\$1 577 117
BUILDING: (002) Shop	\$37 147	\$28 211	47,344,777 47,344,777
BUTIDING: (003) Misic Bldg	\$33,700	\$25,411	\$63,333
BUILDING: (004) Braze Box	433,700	\$23,800	\$59,300
BULLDING: (004) FLOSS DOX	ŞU	\$0 \$0	şa
BUILDING: (005) Garage	50	\$U	şo
BUILDING: (006) Concessions	şu	\$0	\$0
CAMPUS TOTALS	\$1,071,504	\$575,261	\$1,646,765
CAMPUS: (002) Bolton Middle School			
BUILDING: (001) Bolton Middle School Main	\$210,024	\$155,749	\$365,773
BUILDING: (002) Play Shed	\$0	\$0	\$0
CAMPUS TOTALS	\$210,024	\$155,749	\$365,773
CAMPUS: (003) Cedaroak Park Drive	6176 077	604 363	6000 D05
BULLDING: (UUI) COURTORK FARK MAIN BIDG	3130,022	374,403	\$230,283
BUILDING: (UU2) Cedaroak Park 4-9	\$261,423	\$66,275	\$327,698
BUILDING: (003) Cedaroak Park 1-3	\$174,282	\$44,183	\$218,465
BUILDING: (004) Cedaroak Park 12-16	\$30,209	\$22,948	\$53,157
BUILDING: (005) Cedaroak Park 17-22	\$29,872	\$22,692	\$52,564
CAMPUS TOTALS	\$631,808	\$250,361	\$882,169
CAMPUS: (004) Stafford Primary School			
BUILDING: (001) Stafford Primary Main Bldg	\$141,357	\$103,448	\$244,805
BUILDING: (002) Trailer 1	\$0	\$0	\$0
BUTLDING: (003) Trailer 2	\$0	\$0	\$0
BUTIDING: (004) Blar Shed	40	\$0 \$0	\$0 \$0
BUILDING: (004) Play Shed	Ş0	30 20	50 60
BOILDING: (005) Maint Building		ŞU	
CAMPUS TOTALS	\$141,357	\$103,448	\$244,805
CAMPUS: (005) Sunset Primary School			
BUILDING: (001) Sunset Primary Main Bldg	\$365,187	\$198,836	\$564,023
CAMPUS TOTALS	\$365,187	\$198,836	\$564,023
COMPUS: (006) Williamette			
BUILDING: (001) Williamette Main Bldg	\$376,182	\$176,628	\$552,810
CAMPUS TOTALS	\$376,182	\$176,628	\$552,810
CAMPUS: (007) Wilsonville Primary School			
BUILDING: (001) Wilsonville Primary Main R	\$16,507	\$11.747	\$28.254
BUTLDING: (002) Modular #1	\$0	\$0	ŝa
BUTLDING: (003) Modular 47	\$777	\$756	4507
BUTTDING: (004) Maint Building	, c.c.v no	¢2.30	en
BUILDING: (004) Maine Building	30 44.0 74.7	\$U \$2,120	\$10 AE1
BOILDING: (005) LIBRARY	\$10,713	\$2,138	\$12,851 
CAMPUS TOTALS	\$27,557	\$14,141	\$41,698
CAMPUS: (008) Inza R. Wood Middle School			
BUILDING: (001) Inza R. Wood Main Bldg	\$71,393	\$54,220	\$125,613
BUILDING: (002) Maint Building	\$0	\$0	\$0
CAMPUS TOTALS	\$71,393	\$54,220	\$125,613
CAMPUS: (009) Administration Building		•	
BUILDING: (001) Administratiion Building	\$2,962	\$2,274	\$5,236

NOTE: Please see the 'Cost Estimates' section of Part I for a full explanation of the cost estimates presented here PAGE 4A - 1

#### DISTRICT COST SUMMARY

PROJECT NUMBER: 37-0050 DISTRICT NAME: West Linn S.D. 3JT

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		REMOVAL COST	-REINSULATION COST	COMBINED COST	
CAME	PUS TOTALS	\$2,962	\$2,274	\$5,236	-
DISTRI	CT TOTALS	\$2,897,974	\$1,530,918	\$4,428,892	-

NOTE: Please see the 'Cost Estimates' section of Part I for a full explanation of the cost estimates presented here PAGE 4A - 2

## PLAN DISTRIBUTION/NOTIFICATION

This section reflects requirements outlined in 40 CFR 763.84 & 763.93 (10)

The following subsections contain this required information:

- Annual (employee) notification records.
- Annual (parent/legal guardian/occupant/employee) notification records
- ACTION: You must send an annual notification to parent, teacher, and employee organization.

Short-term workers must be informed as to the location of ASBM in the school building.

FORMS: N/A

### PLAN DISTRIBUTION/NOTIFICATION

AHERA requires that the LEA notify all building occupants, workers, contractors, and parents or legal guardians of school children. There are three key elements to the Notification program and they are Initial Notification, Annual Notification must include a discussion of:

- Inspections
- Re-inspections
- Surveillance
- Response actions
- Post-response action activity
- Availability of management plant

The LEA designate can realize benefits from the notification program because informed occupants are less likely to disturb the material and will report problem situations.

Contract workers (short-term) who will come in contact with ACBM during their work must be informed of the presence of ACBM. In addition, under various right-to-know laws, all workers must be informed of the potential for contact with hazardous materials such as asbestos. There are three key areas of notification:

### INITIAL NOTIFICATION OF THE MANAGEMENT PLAN AVAILABILITY

At the implementation of the Management Plan, notification to parent, teacher and employee organization of the availability of the plan is to be enacted. Enclosed is a list of steps that are to be taken to provide adequate notifications.

### ANNUAL NOTIFICATION

On an annual basis, the parent, teacher and employee organization shall receive notification reiterating the availability of the plan and other asbestos activities that will occur or have occurred. The annual notification is included in the steps to be taken.

### NOTIFICATION OF THE AVAILABILITY OF THE MANAGEMENT PLAN

The Initial and Annual Notification should follow these procedural steps:

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Step 1:	Notify in writing the president of the parent, teacher and employee organization about the availability of the management plan. This is to be done when the plan is submitted to Governor's designate (October 1988).
Step 2:	If in the event there are no organizations for either parent, teachers or employees, other logical information devices will be used. A newspaper notice is an acceptable media to comply to the AHERA rules.
Step 3:	The notification will explain the location and availability of the management plan, at no cost to review and how to receive a copy (i.e., \$.10 per page black & white or \$50 per copy). A summary of each school inspection report may be included in the letter initially and annually if desired.
Step 4:	The notification will include all response actions scheduled, all response actions previously undertaken in the past calendar year, notice of inspections, periodic surveillance and other pertinent asbestos management activities that are planned or in progress.
Step 5:	Recordkeeping: A dated copy of each notification is to be kept. In addition, a signed receipt from a certified letter should be kept (optional). Keep all records under TAB 13.

# ANNUAL (EMPLOYEE) NOTIFICATION RECORDS

#### EMPLOYEE NOTIFICATION LETTER

Dear Employee:

An environmental health & safety consulting firm completed a study to determine the presence, location, and quantity of asbestos-containing materials at the <u>West Linn-Wilsonville School</u> <u>District</u>. The facilities were inspected in accordance with the Environmental Protection Agency guidelines for asbestos-containing materials (i.e., 40 CFR 763). This study is available for your review in the main office of each facility.

Asbestos poses a widespread concern for everyone since it was used extensively in buildings and homes constructed up to the late 1970's for insulation, acoustical purposes, and/or fire retardation. During that time, asbestos was a government-approved building material and considered almost a miracle substance because of its fire retardant and insulating properties. Airborne asbestos fibers are a health hazard and have been linked with different types of abdominal and lung cancers. We are, therefore, committed to taking corrective measures, when and where appropriate, and our asbestos control efforts will be based on the advise of experts knowledgeable in asbestos abatement techniques.

It is very important that all maintenance, custodial, and production employees read carefully the list of known and suspect asbestos-containing materials located in the main office. Please note the location of asbestos-containing material and avoid any unnecessary disturbance of the material. <u>West Linn-Wilsoville School District</u> has also designed an Operations & Maintenance Plan to ensure that the remaining asbestos-containing materials at our facility remain in good condition. The Asbestos Operations and Maintenance Plan includes specific requirements for the safe handling and removal of asbestos-containing material and should be consulted prior to beginning any work on or near asbestos-containing materials.

By signing this document, you are acknowledging only that you have been informed of the known asbestos-containing materials in the <u>West Linn-Wilsonville School District</u>, the Asbestos Operations & Maintenance Plan for safe handling of asbestos-containing materials, and that you are aware that asbestos may produce adverse health effects if proper control techniques are not used. Our goal is to provide everyone with training and knowledge so that exposure to our employees and contractors does not occur. Our policy of hiring licensed asbestos abatement contractor to perform all work involving asbestos-containing materials will continue.

Please sign and return a copy of this letter. If you have any questions or concerns, please contact me.

Sincerely,

Asbestos Program Manager

Signature ______ Printed Name_____ Date_____ Social Security No._____ Serving the Wilsonville, Statford, West Linn Community



May 9, 1989

Oregon Department of Education TO: 700 Pringle Parkway Salem, OR 97310-0290

AHERA Management Plan SUBJECT:

Buildings Included:

WEST LINN HIGH SCHOOL BOLTON MIDDLE SCHOOL CEDAROAK PARK ELEMENTARY STAFFORD ELEMENTARY SUNSET ELEMENTARY WILLAMETTE MIDDLE SCHOOL WILSONVILLE ELEMENTARY INZA WOOD MIDDLE SCHOOL ADMINISTRATION BUILDING

RECEIVED BY: Kathy Leelle DATE: _5/9/89

P.O. Box 100 st Linn, Oregon 97068-0100 (503) 638-9869

# ANNUAL (PARENT/LEGAL GUARDIAN/OCCUPANT) NOTIFICATION RECORDS



# West Linn-Wilsonville School District 3JT

ADMINISTRATION BUILDING P.O. Box 35 · West Linn, Oregon 97068 · (503) 638-9869 or Fax (503) 638-9878

January 4, 2000

Dear Parents and Students:

In our efforts to comply with Federal and State requirements regarding asbestos management; and to ensure a safe learning environment for the patrons of West Linn-Wilsonville Schools, please be advised that all district facilities except Boeckman Creek Primary, Athey Creek Middle, Wilsonville High and Rosemont Ridge Middle contain varying amounts of known asbestos-containing materials.

The District employs the services of a professional asbestos management firm who has completed a study to determine the presence, location and quantity of asbestos-containing materials in all district facilities. The facilities have been recently re-inspected in accordance with the Environmental Protection Agency guidelines for asbestos-containing materials and this study, as well as all historic data regarding asbestos, is available for your review in the main office of each facility.

West Linn-Wilsonville Schools is committed to providing safe schools for all students and employees in our district and we thank you for your attention to this important issue.

Sincerely,

DEPARTMENT OF OPERATIONS

Tim K. Woodley, Director

Asbestos Program Manager



## West Linn-Wilsonville School District 3JT

ADMINISTRATION BUILDING

West Linn, Oregon 97068 63031638-9869 or Fax (5031638-9873

September 8. 1992

#### MEMO

TO: West Linn School District Parent Teacher Organization and Booster Club Chairpersons Bill Bailey, WLEA President Bob Lawer, OSEA President

FROM: Dealous L. Cox, Sociefintendent

SUBJECT: Asbestos Inspection Report and Management Plan

This memorandum is intended to comply with the federal requirement to notify you annually that the district has an asbestos management plan which is available for inspection in each of the individual school offices and in the Administration Building. If you or members of your group wish to review the plan, please contact the appropriate school principal or me.



West Linn School District 31T

ADMINISTRATION BUILDING P.O. Box 100 - West Linn, Oregon 97068-0100 (503) 638-9869 - Fax (503) 658-0878

September 24, 1991

#### <u>MEMO</u>

TO: West Linn School District Parent Teacher Organization and Booster club Chairpersons Bill Bailey, WLEA President Doris Dorsey, OSEA President

FROM: Dealous L. Cox, Superintendenz

RE: Asbestos Inspection Report and Management Plan

The purpose of this memorandum is to provide annual notification, as required by federal AHERA regulations, that the district's asbestos management plan is available for public review in the principal's office in each school and the district's maintenance office at the Administration Building. Each plan contains, among other things, the results of the six-month inspections completed in each building and notes the effects of any asbestos removal projects or other response actions undertaken in the last 12 months.

If you have any questions regarding this letter or the district's management plan, please contact me at 638-9869 or the individual building principals. September 6, 1990

MEMO

TO: West Linn School District Parent Teacher Organization and Booster Club Chairpersons Bill Bailey, WLEA President Doris Dorsey, OSEA President

FROM: Dealous L. Cox, Superintendent

SUBJECT: Asbestos Inspection Report and Management Plan

This memorandum is intended to comply with the federal requirement to notify you annually that the district has an asbestos management plan which is available for inspection in each of the individual school offices and in the Administration Building. If you or members of your group wish to review the plan, please contact the appropriate school principal or me. ŕ

Serving the Wilsonville, Statford, West Linn Community



DATE: May 12, 1989 TO: All Principals FROM: John Allen, Safety Officer SUBJECT: Asbestos Management Plan

This is to confirm that each school shall uniformally conform to the month of January to meet annual inspection and notification requirements as set forth by the State of Oregon.

Please place this letter in your suspense file for January (of each year) and reaffirm to your staff and other associated Parent-Teacher, Booster, or other groups of the availability of this plan for their respective review.

A copy of all correspondence per this plan must be submitted to the District Safety Officer for filing in the District's master file.

Your cooperation is essential and appreciated.

John Allen, Safety Officer

JA/pr

cc: Dea Cox Sam Nutt

P. O. Box 100 1st Linn, Oregon 197068-0100 (503) 638-9869

Mest Linn School District No. 3.]

ADMINISTRATION SUILDING P.O. Box 100 West Linn, Oregon 97068-0100 (503) 638-9869

MEMO

May 9, 1989

TO: West Linn School District Parent Teacher Organization and Booster Club Chairpersons Bill Bailey, President, WLEA Kafen Woodward, President, CSEA FROM: Dealous L. Cox, Superintendent

SUBJECT: Asbestos Inspection Report and Management Plan

In September, I indicated to you that Hall-Kimbrell Environmental Services, the firm with which the district has contracted to complete the asbestos inspection and management plan for the district, had completed the inspection; however, the management plan had not been completed.

Hall-Kimbrell has now completed the asbestos management plan, and it is available in each of the individual school offices and at the district administration building. If you or members of your group would like to review the plan, please contact the building principal or me.



DATE: May 9, 1989

TO: All Principals

SUBJECT: AHERA Management Plan

I have received my building's copy of the Facilities Asbestos File.

WEST LINN HIGH SCHOOL

BOLTON MIDDLE SCHOOL

CEDAROAK PARK ELEMENTARY

STAFFORD ELEMENTARY

SUNSET ELEMENTARY

WILLAMETTE MIDDLE SCHOOL

WILSONVILLE ELEMENTARY

INZA WOOD MIDDLE SCHOOL

ADMINISTRATION BUILDING

-59 <u>Il·May-89</u> Date Date nci <u>5-/2-89</u> Date <u>5-1/-89</u> Date 5-11-39 Date Principal <u>J-11-89</u> Date M 5-11-89 Date Principal Date Supervisor

P.O. Box 100 Vest Linn, Oregon 97068-0100 (503) 638-9869



May 9, 1989

T0: Principals FR: Sam Nutt SUBJECT: Asbestos Management Plan

Attached is the asbestos management plan for your school. This is an extremely important document which will receive increasing attention in the coming months.

The following are some steps relative to this document that you should take immediately:

- 1. Become familiar with the contents of the document and identify a location in your files where the plan will be maintained. (You should not allow the plan to be taken outside of the building; and you or your secretary should know where it is at all times.)
- 2. Insure that key employees (engineer, custodians, other administration, school secretary, etc.) in your building are familiar with the contents and know where the plan is located and can find it when required.
- 3. Inform staff now and annually that the plan is available and tell them how to access it.
- 4. Send the attached memo from Dea to your parent organization informing them about the plan. Annual written notification to parent organizations is required and should be document in the appendix of the plan.

Please contact me if you need help in understanding the document. It is not well organized or easy to read and understand; however, it does meet the requirements of our contract with Hall-Kimbrell. Unfortunately, we are stuck with this plan format for now. The most important things you and your key staff need to know immediately for the plan are: (1) the locations of friable (i.e. material which will crumble with hand pressure) asbestos in your building, and (2) the steps you should take if you have an asbestos fiber release incident (or suspected incident) in your building.

P. O. Box 100 Est Linn, Oregon 97068-0100 (503) 638-9869

# NOTIFICATION & TRAINING OF EMPLOYEES, CONTRACTORS/SHORT-TERM WORKERS

This section reflects requirements outlined in 40 CFR 763.92 (a)(1), (2)(iv) & 763.84 (b)

The following subsections contain this required information:

Contractor/Employee Notification Letter Contractor Notification/Acknowledgement Contractor Asbestos Awareness Training Records

### **Notification and Labeling**

Once the presence of ACM has been established in a facility a notification and warning program should be initiated. The notification and warning program serves two purposes

It alerts affected parties to a potential hazard in the building It provides basic information on avoiding the hazard

Building occupants, employees and others who are aware of the presence of ACM are less likely to disturb the material and cause fiber release. Note, however, that the AHERA Rule requirements for notification are limited to sending written notices to employees, parent and teachers (or organizations representing these groups if such organization exist.) The notices must announce the existence and location of the management plan.

### Notification

Notification of building occupants and other affected individuals can be accomplished several ways. Two common techniques are

Distributing notices Holding awareness or informational seminars

The distribution of notices is an effective means of altering building occupants about the presence of asbestos. Memos or letters can be tailored to specific parties, and verification that notification was received is easily accomplished. For example, in a large multi-tenant facility, the building owner can send detailed reports to the management of individual companies, while distributing similar informational memos to building occupants.

Awareness or informational seminars can be designed to follow written notification. They serve to expand on relevant information while allowing those attending to raise questions. These seminars can be developed at the same time as other training programs, and typically last no more than several hours. Regardless of notification format chose, building occupants could be provided with the following information:

What asbestos is and how it is typically used Health effects of associated exposure What type(s) of ACM are present in the facility The exact location(s) of these materials How individuals can avoid disturbing ACM How to recognize and report damage

## SHORT-TERM WORKER NOTIFICATION

Information regarding the location of ACBM must be provided for all short term workers who come into the building according to the AHERA Final Rules. To comply with this requirement, LEA should inform all short-term workers that the management plan must be reviewed prior to working in the building.

This can be accomplished by the following:

All workers are to report to the school administrative office prior to starting any activities, review the plan, and sign a statement that they have done so.

# **CONTRACTOR NOTIFICATION LETTER**

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#### CONTRACTOR NOTIFICATION LETTER

<u>West Linn-Wilsonville School District</u> hired an environmental health & safety consulting firm to complete a study to determine the presence, location, and quantity of asbestos-containing materials at the <u>West Linn-Wilsonville School District</u>. Our schools were inspected in accordance with Environmental Protection Agency guidelines for asbestos-containing materials (i.e., 40 CFR Part 763). This study is available for your review in the Central Records Library.

The purpose of this letter is to advise you as to where the known asbestos-containing materials are located at the <u>West Linn-Wilsonville School District</u>, and to refer you to the Asbestos Survey for identification of the presence, location, and quantity of asbestos-containing materials throughout our facility. The survey is located in the Main Office and it is essential that you familiarize yourself in the contents of the survey and the asbestos described in the Operations & Maintenance Plan prior to beginning any work in this facility.

The <u>West Linn-Wilsonville School District</u> has an Operations and Maintenance Plan which provides our employees and contractors with the proper knowledge to institute safe practices for the elimination of potential airborne fibers. One key element of this program includes periodic air testing to ensure that asbestos fiber concentrations are maintained well below the EPA indoor air quality level. Whenever known or suspected asbestos-containing materials are impacted, air quality testing will be conducted.

By way of background, the term "asbestos" describes a group of minerals, including actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite that are related to each other as fibrous inorganic hydrated mineral silicates. These minerals have been valued as a natural resource with hundreds of applications in manufacturing, construction and consumer products. Their fibrous forms allow them to be made of cloth, felt, gaskets, rope or to be used for reinforcement in cements, asphalt, and plastic. They are nonflammable, withstand high temperature and have a high-tensile strength. Three forms of asbestos products are typically found in buildings 1) surfacing materials; 2) thermal materials; and 3) miscellaneous materials such as ceiling tiles, floor tiles and shingles.

Asbestos poses a widespread concern for everyone since it was used extensively in buildings and homes constructed with insulation, acoustical treatments and/or fire protection. Asbestos was installed as a government-approved building material and was considered almost a miracle substance because of its many physical properties. However, airborne asbestos fibers are a health hazard and have been linked with different types of abdominal and lung cancers. We are therefore committed to taking corrective measures wherever appropriate, and our asbestos control efforts will be based on the advice of experts knowledgeable in asbestos abatement techniques.

Asbestos fibers tend to be retained by the lungs and can cause a variety of diseases, some of which are not evident for 20 years or more after initial exposure.

If you have any questions or concerns, please contact the APM, <u>Tim Woodley</u>, at (503) 673-7041.

Thank you in advance for your cooperation.

Sincerely,

Asbestos Program Manager

# CONTRACTOR / NOTIFICATION / ACKNOWLEDGMENT
### Contractor Notification / Acknowledgement

The <u>West Linn-Wilsonville School District</u> facilities have been determined to contain asbestos. Your work may bring you into close proximity to known or suspected asbestos-containing materials. Please refer to the Asbestos Building Survey and List of Routine Maintenance Areas for descriptions of asbestos-containing material in the specific areas you will be working in.

WORKING WITH ASBESTOS CAN BE DANGEROUS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER. IF YOU SMOKE AND INHALE ASBESTOS FIBERS, THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

Disturbance of the asbestos-containing materials may cause release of asbestos fibers into the air. The work you are about to perform should not disturb and/or damage these materials. Any such activity is prohibited without the use of engineered control procedures and employees trained in their use (DEQ certified asbestos abatement workers and/or supervisors). An asbestos work order must be granted by the <u>LEA</u> before performing any task that might result in the disturbance of asbestos-containing materials. The only contractors that are permitted to intentionally disturb asbestos containing material are those that have received an Oregon Asbestos Abatement Contractor license.

By signing this document you are acknowledging that you have been informed of the known locations and health hazards associated with asbestos-containing materials in the <u>West Linn-Wilsonville School District.</u> You are also acknowledging that you understand that only licensed asbestos abatement contractors and certified asbestos abatement employees may intentionally disturb asbestos-containing material. If you encounter damaged materials that you believe might contain asbestos, you are responsible for notifying the APM prior to any activities that might results in the release of asbestos fibers.

SIGNATURE:	DATE:	
PRINTED NAME:	SS#:	
COMPANY:		

## CONTRACTOR ASBESTOS AWARENESS TRAINING RECORDS

### TRAINING

This section reflects requirements outlined in 40 CFR 763.84 (2), 763.92 (a) (v), (2)

The following subsections contain this required information:

- LEA Designate/Asbestos Awareness Training Records
- Maintenance/Custodial Staff
- Personnel Medical Records (if applicable)

**ACTION:** You must train your custodian and maintenance employees. Prior to the start of the O & M Plan, there is a 2 hour awareness training and 14 additional hours of training for workers who may come in contact with asbestos.

FORM: N/A

#### **EMPLOYEE AND WORKER TRAINING**

Training workers to use special procedures and work practices is a key to a successful asbestos management program. The training requirements differ between OSHA and AHERA, primarily in that OSHA has no specific number of training hours. There is also a difference in various state training programs.

All LEA maintenance and custodial staff, as well as contract workers, who work in a building containing ACBM are required to receive at a minimum a two-hour awareness training seminar. Any of these workers who will disturb ACBM must receive an additional 14 hours of training. Workers engaged in large-scale, long-duration ACBM activities in K-12 schools must receive 24 hours of training and become "Accredited Asbestos Workers". They must also receive an annual 8-hour refresher course. In Washington State the training program is 36 hours for "Accredited Workers".

The time intervals for the awareness education and 14 hours additional training of the employees are not specified by EPA regulations. However, it is highly recommended that both the two-hour awareness seminar and the additional 14 hours of training be given annually. All employees must receive the two-hour awareness training within 60 days of beginning work or, if they will come into contact with ACBM, before they begin their activities. Intervals should be checked for compliance with state and local rules and regulations. Many private companies and LEAs have all workers who contact ACBM attend the 24-hour training to provide the highest level of worker training. A sample employee training records form is included in this section.

### LEA DESIGNATE

The local Education Agency designated person (asbestos program manager) is the responsible person on behalf of the school district to ensure that the management plan and the AHERA rules are followed and, even more importantly, to protect the health of the building occupants and the environment.

Every LEA must designate a person and train them with the basic knowledge of the following:

- --Health effects of asbestos
- --Detection, identification and assessment of asbestos containing materials
- --Options for controlling asbestos containing building materials
- --Asbestos management programs
- --State and Federal regulations

There is no approved course or length of training set by the EPA. Some people are of the opinion that the LEA designate should take a 5 day Accredited Inspector/Management Planner course. This

#### TRAINING

is the highest level of accredited training for non-workers. Because the LEA designate is the most responsible party in the asbestos management process, taking this course when available makes sense. There are 3 day courses to train LEA designates and even 1 day courses.

### TWO-HOUR AWARENESS TRAINING

The required LEA two-hour awareness training program should include the information given to the occupants for the general information sessions and mailings and should include:

- --Uses and forms of ACBM
- --Health effects of asbestos
- --Location of ACBM in building
- --Recognition of problems such as damage, deterioration, or delamination of ACM
- --Name and telephone number of the APM
- --General understanding of the asbestos management program

--Overview of work practices and procedures to be followed by personnel who will --Contact ACBM

#### WORKERS WHO CONTACT ACBM

All employees and contract personnel who contact ACBM through cleaning maintenance or emergencies must have at least an additional 14 hours of training (16 hours total). Three types of training for workers who contact ACBM can be identified:

- --Training for custodians involved in cleaning and simple maintenance tasks
- --Training for maintenance workers involved in general maintenance and more complex repair tasks
- --Training for workers who may conduct limited asbestos abatement (removal, enclosure, and encapsulation) or whose work involves direct (intentional) contact with ACBM

All three types of training should include general discussions of the uses and health effects of asbestos, the location of ACBM in the building, the overall asbestos control program, and the asbestos management program.

The additional 14-hour training program should also include:

--Physical characteristics of asbestos

--Methods and procedures for handling and disposing ACBM

- --Medical monitoring and surveillance requirements
- --Personal protection, including respiratory protection and protective clothing
- --Working knowledge of the asbestos management program, including safety, access, and reinspection
- --Equipment availability and uses including wet cleaning, HEPA vacuuming, steam cleaning, etc.
- --Hands-on training in use of respirators, personal protection, work practices, and fiber control

#### TRAINING

--Importance of record-keeping and employee record generation requirements

- --Requirements for clearing work-order through the APM for of all renovation and ACBM disturbance activities
- --Nonasbestos safety considerations

--Training and licensing requirements by state and local agencies

#### ACCREDITED ASBESTOS WORKER TRAINING

The training requirement for an accredited asbestos worker includes a 24-hour, or three-day course. The course should include lectures, demonstrations, at least six hours of hands-on training, individual respirator fit-testing, course review, and an examination. EPA recommends the use of audio-visual materials to complement lectures where appropriate.

The training course should adequately address the following:

- --Physical characteristics of asbestos
- --Potential health effects related to asbestos exposure
- -- Employee personal protective equipment
- --State-of-the-art work practices
- --Personal hygiene
- --Addition safety hazards
- --Medical monitoring
- --Air monitoring
- --Relevant federal, state, and local regulatory requirement, procedures, and standards.
- --Establishment of respiratory protection programs
- --Course review

The worker must receive a passing grade of 70% on an examination with 50 multiple-choice questions.

### **TEACHING QUALIFICATIONS**

The 2 and 14-hour training programs can be conducted by any qualified person trained in asbestos control and management. The EPA stresses the use of the most qualified people available. The 24-hour training program for workers must be an EPA-accredited training course. A sample form for recording individual worker training is included in this section.

### **CONTRACT SERVICES**

Where custodial and maintenance services are performed under contract with a service company, the building owner must ensure that the service company's staff has been properly trained for working with ACBM. Training will include successful completion of courses on asbestos control and special programs that meet the requirements for the LEA staff discussed above. The company's respirator and medical surveillance programs should be reviewed. In addition, the company performance should be verified with other customers, particularly owners of buildings containing ACBM.

If the service company meets the training and performance requirements, an initial session should be held with the company's supervisors and workers to inform them of the location of ACBM in the building and of all building-specific operating procedures. The APM assumes responsibility for ensuring that the service company adheres to all aspects of the asbestos management program.

## LEA DESIGNATE/ASBESTOS AWARENESS TRAINING RECORDS

### LEA DESIGNATE DOCUMENTATION

The school district must designate and train a person to ensure compliance with the requirements of Section 763.84 of the Final Rules. The responsibilities of the LEA Designate's signature and statement of acceptance appears in the last TAB of the Management Plan. If the school board or superintendent has formally assigned the LEA Designate with a letter, memorandum, or similar conveyance, a copy should be filed under this Tab.

The West Linn-Wilsonville School District's Superintendent Roger L. Woehi acknowledges the undersigned person to act as the LEA Designate throughout the West Linn-Wilsonville School District.

Signature: Com I Wacht Date: 11/1/99

### LEA DESIGNATE

Tim Woodley West Linn-Wilsonville School District 3Jt 22210 S.W. Stafford Road Tualatin. OR 97062 (503) 638-9869

#### LEA DESIGNATE TRAINING

Course Name: <u>AHERA</u> DP
TRAINING
Training Date: 10 - 14 - 9 9
Total hours:
Description:

### LEA DESIGNATE RESPONSIBILITIES

Responsibilities are listed in the federal register included in this section.

<u>Cour</u> se Title	AHERA DP TRAINING
Date(s):	10-14-99
Location:	WEST LINN - WILSONVILLE
	SCHOOL DISTRICT
	ADMINISTRATION BLDG,

PAC PRO Safety & Health Services 660 N.W. Bella Vista Drive + Gresham, Oregon 97030 Phone: 503-666-6693 + Fax: 503-665-3143



### Attendance Roster

Name	Сотрату	Phone Number
1. Jeri Nelson	WL-WV School Dist.	673-7013
2 Tim Woodley	School District	673-7041
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PLEASE PRINT your name clearly, as you want it to appear on your certificate.

# Certificate of Completion

### **Presented by** Three Rivers Environmental, Inc.

## Jeri Nelson

Designated Person Indiving epilyse madoordance with EPA AHERA 40.64 R. Parl 763, Subpart E.

October 14, 1999 West Linn - Wilsonville Schubt District - How Howey Metall. 52210 SW Staffpro Road - Prove Staff Fistructor West Linn, Oregon 97088

## Certificate of Completion Presented by

### Three Rivers Environmental, Inc.

## Tim Woodley

Diasisticoessfully completed a Designated Person including course in addordance with EPA AHERA 40 CFR, Parl 763, Subpart E.

October 14, 1999 West Linn - Wilsonville School Districts 22210 SW Statford Road West Linn Oregon 97068

Three Rivers Bhyironmental, Inc. 445 W Arlington Gladstone, Oregon 97027 + (503)-557-2396

## MAINTENANCE / CUSTODIAL STAFF

Course Title: ASBESTOS AWARENESS
Date(s): 02-16-01
Location: WESTLINN - WILSONVILLE S. D.
WEST LINN, OR

PAC PRO Safety & Health Services 660 N.W. Bella Vista Drive + Gresham, Oregon 97030 Phone: 503-666-6693 + Fax: 503-665-3143



### Attendance Roster

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

SIGNATURE	PRINTED NAME	PHONE NUMBER
1. Praul Commett	555 EAGY Cromwell	650-2636
2. Darryc crommell	Danyl' Gromwell	503-65-2636
3. Tranci Bettindy	Noncy BeHinesici	655-7152
4. Witte	BILL RAY	650-3842
5/11/and Olans	MIArk L. RAINEN	673-7013
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Course Title: ASBESTOS AWARENESS
Date(s): 02-16-01
Location: WESTLINN-WILSONVILLE S.D.
WEST LINN, OR
)

PAC PRO Safety & Health Services 660 N.W. Bella Vista Drive & Gresham, Oregon 97030 Phone: 503-666-6693 & Fax: 503-665-3143



### Attendance Roster

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

SIGNATURE	PRINTED NAME	PHONE NUMBER
1. ROBERT STEWARD	Roland Steer Para	n/A
2. Robin K Methtosh	Robin K Methoch	503-722-5775
3. JE Ronson	Frank E Ransom	7607086
4. Farder & Pauly	HAROLD PAULEY	5037757166
5. BLAINE CUTKISTOPHER	BLAINI CHRISTOPHER	503 771-8127
OPEDRO LORRESS	PEPRO PERESSAS	5036918439
2. Terry Casel	Terry Casey	673-7436
8. Kim Vachter	Kim Vachter	673.7013
9. Sonda Vaccondar	Linda Varsandar	666-1975
10. TESUS LUNA	JESUS LEMA	803-7060
11. JOSE LUNA	FOSCILIAR	998-7252
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Course Title: ASBESTOS AWARENESS
Date(s): 02-16-01
Location: WESTLINN-WILSONVILLES.D.
WEST LINN, OR
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PAC PRO Safety & Health Services 660 N.W. Bella Vista Drive * Gresham, Oregon 97030 Phone: 503-666-6693 * Fax: 503-665-3143



### Attendance Roster

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

SIGNATURE	PRINTED NAME	PHONE NUMBER
1. July NEONADO	VICICI VEOMANS	673-7013
2. Shen A Lamble	Steve Lewallon	i ( ) (
3. John W. Huttery 7	John W HARtley Jr	1073-7100
4. Kolugio Luna	REFUSIO LINA	774-6428
5 Lanuel Johnson	LARRY JOHNSON	625-4541
6. Same the	LARRY FOLGE	678-1494
7. Kensin (1) & heretas	KeDin Washington	794-9452
8. Roz D m04	Ron O mosat	653-1832
2 Bar Rig	Batter Ziga	570-04-66
10. Jour Monwood	Dava Nimron	998-7252
11. Korth W B-I	ROCKY Bounds	(31-1027
12 michay mause	mickey marse	824-3105
13. Allas Dexus	Allan Perrine	656-6685
14. Jany think	BAAN H.N.S. (	5577-8506
15. Jour Audan	Tom NIXON	682-8434
16.	LesTRF BOLA	6663 1901
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Course Title: ASBESTOS AWARENESS
Date(s): 03-26-01
Location: WESTLINN-WILSONVILLE S.D.

PAC PRO Safety & Health Services 660 N.W. Bella Vista Drive & Gresham, Oregon 97030 Phone: 503-666-6693 & Fax: 503-665-3143



### Attendance Roster

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

SIGNATURE	PRINTED NAME	PHONE NUMBER
I Wand Sallho	David Jolliffe	539 5826
2 Merry Stirm	TREAL Sturman	630-3675
3. Koli Nol	Robin Nolan	631-4832
1. Ramoldo R. agrico	REYNALDO & ESPINO	675-8260
5. Uni Hattanio	Vicki Holtcamp	638-4460
6. Clouch Loch	Claude Koch	653-9482
7. Oen Juren	COLINICALL	723-1453
.8.	Two Lucay	772-7105
9. Annie Jacoh	Lunda clacobs	636-2698
10. SEMOREN	Leo Moser	+35-2979
Will alter d	Jen Horan "	6359272
of Chrenge formen	Chevyl Somner	673-7265
13 auguegt Molic	CWYNES A NOLIN	673-7013
14. (ail zurehen	CAROL ZUEACHER	673-7013
15 plan Nelson	Jeri Nelson	673-7013
16. John Frietson	John Erickson	632-4421
17. SERGIO BRIZROSO		723-0614
18. ELOLUA UARROQUE ER	ETA	
19. Aly Castro	Aldoquada Castro. O.	430-17-81
20. Jase Angel Dobas	- Jose A. Rosas	691-89-39

#### ASBESTOS AWARENESS TRAINING FEBRUARY 21, 2000

Smith, Jason Moser, Leo Simmons, Phil Riggar, Butch Pauley, Harold Deatherage, Ryan Wart, James Herring, William Hartley, John Johnson, Larry Wall, Colin Griffin, James Luna, Jose Bounds, Rocky Luna, Jesus Luna, Refugio Washington, Kevin Somner, Cheryl Koch, Claude Baer, David Rainey, Mark Olson, Terry Garza, Pam Yeomans, Vicki Nolan, Robin Hines, Gary Lewallen, Steve Ray, Bill Peter, Jim Cromwell, Darryl Nixon, Tom Daley, John Jacobs, Linda Vachter, Kim Sturman, Terry Simmons, Joe Thomas, David Christopher, Blaine Howard, Jerry Whitney, Clair

Course Title:	ASSESTES AWARENESS
Date(s):	02/21/20
Location:	WESTLINN/WILSONVILLE
	TRANCE PAR AMAN, ELTE.
	NEST LINN CR

PAC PRO Safety & Health Services 660 N.W. Bella Vista Drive & Gresham, Oregon 97030 Phone: 503-666-6693 & Fax: 503-665-3143





### Attendance Roster

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

SIGNATURE	PRINTED NAME	PHONE NUMBER
1. Josen D. Smith	Jason D Smith	5031682-7521
2. Lis MERL	Leo Moseis	435-2979
3. Jelil firmous	Phil Simmons	570 - 9753
4. But Rog-	Butch Ribber	570-04/66
5. Harred & Paular	HAROLD R PAUley	7757166
6 RMM clathe UNZ	Ryan De atherage	557-7347
Trams Id. Han	James H- Want	632-6892
8. William ) Herring	WILLIAM HERRING.	632-4582
9. John W Hausleyt	John W. HARFley Jr	698-4221
10 tarrix Achuson	LARRY JOHNSON	625-4541
11. Colin A Walk	( DIN WAII	232-2157
12 Jaines & Olinfui	VHATES A GRIFFAN	656-4688
13. CS 22000	JOSE F-LINA	259-9483
14. Foring Road	ROLICY BOUNDS	582-8506
15. LESS JUNG	Jesus Long	2567-4483
16. Hereight Friday	PERCER LUNS	A48- 42.82
17. " - men lal ashington	Kauin Washinston	794-9452
18. present borne	Chieroy 1 Sorrivier	2.50-7029
19. State Ca	Chille Koch	658-9482
20. Twi Proch	David J Road	632-3208

Course Title.	ASBESTOS AWARENESS
Date(s):	02/21/60
Location:	WEST LINN/WILSONVILLE
	SCHEICL DIST. ADMIN. BLDG.
	WEST LININ, CR

PAC PRO Safety & Health Services 660 N.W. Bella Vista Drive + Gresham, Oregon 97030 Phone: 503-666-6693 + Fax: 503-665-3143



### Attendance Roster

SIGNATURE	PRINTED NAME	PHONE NUMBER
Min la Vagores	MARK L. RAINEY	673-7013
2 " Jerry Mark	Terry Olson	
3. Par Garza	Pam Garza	
4. Vecke M LEOMans	VICKI MEAMANS	
5. Poly Not	Robin Nolan	
6. Harry Anies	GARY HINES	
7. Stere Lewelle	Steve Lewaller	673-7909
8. Ust Aley	Bill RAY	673-2845
2. Smithetta	Jim Peter	656-6665
10. Darryl	Dassyl cremwell	660-263e
11. Thomas Jum	THOMAS NIXON	1382-8434
12. Jun Lali	John L. DAley	631-8603
13. Finder & auch	binda Schools	636-2698
14. Kim Machter	Kim Pachter	65-6-5-429
15. Terry C. Sturman	ana the	630-3675
16. Joe Summons	JoeSimmous	673.7016
17. Chair Cherman	DAVID THOMAS	673-7013
18. Hay Attation	BLAINE (HRISTOPHER	771-8127
10 A Army C	Jenry Ataund	5 613-7500
20 Jain Kuhitman	CLAIR MIHITARY	722 12 49

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

### ASBESTOS AWARENESS MARCH 20, 2000

Gaffney, Les Sherman, Walt Chavarin, Freddy Steward, Robert Cromwell, Gary Zuercher, Carol Dvorak, Mark Rose, Thelma Lasit, Sharon Espino, Reynaldo Nolin, Gwynn Nimrod, Doug Varsandar, Linda Holtcamp, Vicki Bettineski, Nancy Moser, Ronald Boyle, Lester Casey, Terry Perrine, Allan Torres, Pedro Nelson, Jeri Joliffe, Dave

Course Title:	ASBESTOS AWARENESS
Date(s):	3/20/00
Location:	WEST LINN SCHOOL DIST.
	ADMINISTRATION BLDG
	WESTLINN OR

PAC PRO Safety & Health Services 660 N.W. Belle Vista Drive * Gresham, Oregon 97/1-1 Phone: 503-666-6693 & Fax: 503-665-3143



### Attendance Roster

SIGNATURE	PRINTED NAME	PHONE NUMBER
1. Les C. Baldman	LES D. BAFFNEN	503-762-4086
2. Water Stadion	WARE SAFRANK	5-17-5-2-22-92
3. Сухонала	Freddy (Landin	
4 7 3 Carle Car	ROBER STELIORS	<u>n /4</u>
5. Davy & Committee	GARY PRIMACE	650 2036
6. Caul Dealer Lu	CARCE sucrehus	1:30 737 S
7. Mark Duorah	MARK WORAK	<u>w57-7430</u>
8. The de Alexander	THELAND ROSE	456-3494
9. Marridary	Shaken Lagy	673-7755
10. Reynol La H. Lynning	REYLOPUM IN GDUA	675-8260
11 Kungaler Tala	Guland Maline	455-1069
12 Douglat En Renning	NIMROD	824-3165
13. Inder/ Leisenful	L' nda Vassandar	666-1975
14 ANT HALLAND	Vidi Holtcamp	6381 4460
15. Manca Bettesh	None BeHilleske	655-4879
16. Kipereland MAS-	Ronald D Moser	62 3 × 15 32
17		<u>eees</u>
18. Terry Garage	Terry Lasey	824-9409
19. 2 Ocu Farries=	Allan Berrine	656-6685
20. DEPROYORESS		

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

"Safety for a Worthunde Workplace"



PAC PRO Safety & Health Services 660 N.W. Sella Vista Drive * Gresham, Oregon 974-9 Phone: 503-666-6693 * Fax: 503-665-3143



### Attendance Roster

PLEASE PRINT your name clearly, as you want it to appear on your certificate.

SIGNATURE	PRINTED NAME	PHONE NUMBER
1. ( )	Bave Johnte	
2 Alex Norton	Jer Nelson	673-7013
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## **PERSONNEL MEDICAL RECORDS (if applicable)**

### MEDICAL MONITORING OR-OSHA Division 3 – 1926.1101 (m); (n)(3)

A medical surveillance program must be made available to workers employed in the construction industry who are:

- exposed to asbestos at or above the PEL (0.1 f/cc 8TWA) or Excursion Limit (1.0 f/cc 30 min.) for 30 or more days per year;
  - or
- engaged in Class I, II, and/or III asbestos work for 30 or more days per year; or
- required by the rules to war a negative-pressure respirator.

All other employees who are or will be exposed to asbestos at or above the action level must be covered by a medical surveillance program.

Medical examinations must be given on the following schedule:

- prior to assignment to an area where negative-pressure respirators are worn; or
- within 10 working days following the thirtieth day of exposure **annually** thereafter.
- if an examining physician determines that any test(s) should be more often than the annual schedule.

Examinations must include:

- medical and work history;
- standardized questionnaire; abbreviated questionnaire;
- physical examination;
- chest X-ray (this is based on the doctor's discretion and analyzed by a specialist);
- pulmonary function test; and,
- any other examination deemed necessary.

The employer must maintain an accurate record for each employee, including:

- name and social security number;
- copy of medical examination;
- physician's written opinions;
- any medical complaints related to asbestos;
- maintain the record for 30 years beyond termination

**Employee access to information:** the employer shall provide a coy of the physician's written opinion to the employee within 30 days from its receipt.

**Physicians written opinion:** Employers must instruct the physician not to reveal in the written opinion given to the employer specific findings or diagnoses unrelated to occupational asbestos exposure.

### **RESPIRATORY PROTECTION** OR-OSHA Division 3 – 1926.1101 (h)

#### Respirators <u>must</u> be worn under the following conditions:

- during the time necessary to install or implement engineering controls and work practices to bring exposures to below the PEL and/or excursion limit
- in operations where controls are not feasible i.e. maintenance and repair activities
- where controls have not reduced exposure levels below the PEL and/or excursion limit
- in emergencies
- in all regulated areas, and
- whenever employee exposure exceeds PEL and/or excursion limit.
- Whenever employer cannot do an appropriate negative exposure assessment of an asbestos abatement project.

### ASBESTOS CONTAINING BUILDING MATERIALS (ACBM) IN THIS FACILITY

# 17

#### ADDITIONAL ASBESTOS SAMPLE/ASSESSMENT DATA

This section reflects requirements outlined in 40 CFR 763.93 (3) (I v)

The following subsections contain this required information:

- Asbestos Sample/Material Location Diagram
- Asbestos Sample Analysis Data

As part of the AHERA Asbestos Inspection, the location of samples collected are recorded on building diagrams. In addition to the sample locations, specific damage areas are recorded where found. The following pages provide the sample location diagrams for the School District. These drawings are organized in the same manner as the inspection/management plan data, i.e. campus one building one is first.

The title block contains the specific state, district, campus and building or code with a 12 digit number. Next is the District Name, the Campus Name and finally the Building Name. The next block provides the date the drawing was made, the street number and finally the drawing number.

### SAMPLING INFORMATION/MATERIAL LOCATION DIAGRAMS (ADDITIONAL ASBESTOS MATERIAL ASSESSMENT REPORT)

A blueprint, diagram or written description of each school building that identifies clearly each location and approximate square or linear footage of homogeneous areas where material was sample for ACM.

The exact location where each bulk sample was collected.

The date of collection of each bulk sample.

The homogeneous areas where friable suspected ACBM is assumed to be ACBM.

The homogeneous areas where nonfriable suspected ACBM is assumed to be ACBM.

A description of how sampling locations were determined.

The name and signature of each accredited inspector who collected the samples.

State, accreditation number and name of training provider of each accredited inspector who collected the samples (copy of accreditation certificate is ideal)

#### ANALYSIS OF SUMMARY

A copy of the analyses of any bulk samples collected and analyzed.

The name and address of any laboratory that analyzed bulk samples.

A statement that any laboratory used meets the accreditation requirements of 753.87 (a) (copy of the accreditation is ideal).

The dates of any analyses performed.

The name and signature of the person performing each analysis.

A description of the assessment required by 753.88 of all friable ACBM and suspected ACBM assumed to be ACBM.

The name and signature of each accredited person making the assessment.

The State, accreditation number and name of training provider for each person making the assessments (copy of certificate is ideal)



### Periodic Surveillance Report

Campus: 006-WILLAMETTE	Building:	MAIN BLDG.
Address: 1403 S.E. 12TH ST., WEST LINN	Date of surveillance:	8/26/92
Person conducting surveillance:JEFF_SMITH	1	
Material description: WRAPPED PAPER PIPE COVE	R	
Homogeneous area(s): USA #02, ALL FLOORS IN	BUILDING	
Last material condition: GOOD New m	aterial description:	DAMAGED
Change in material condition: [X] YES [] NO IN	I TUNNEL	
Material description: MJP ON WRAPPED PIPE COV		
Homogeneous area(s): USA #U3, ALL FLOORS IN	BUILDING	
Last material condition: 6000 New m	aterial description:	DAMAGED
Change in material condition: [X] YES [] NO IN		
Material description: WRAPPED PAPER PIPE COVE	R	
Homogeneous area(s): USA #04. ALL FLOORS IN	BUILDING	
Last material condition: GOOD New ma	aterial description:	SAME
Change in material condition: [] YES M NO		
Material description: <u>MJP ON WRAPPED PIPE COV</u>	ER	
Homogeneous area(s): USA #05, ALL FLOORS IN	BUILDING	
Last material condition: <u>GOOD</u> New ma	aterial description:	SAME
Change in material condition: [] YES [X] NO SOM	E ABATEMENT	
	<u>_</u>	
Material description: WRAPPED PAPER PIPE CUVE		
Homogeneous area(s): USA #00, ALL FLOORS IN I	BUILDING	
Last material condition: GOOD New ma		SAME
Change in material condition: [] YES [A] NO <u>SAME</u>	PLES IESTED NEGATIVE	<u> </u>
Material description: MJP ON WRAPPED PIPE COVI	FR	
Homogeneous area(s): USA #07. ALL FLOORS IN I	BUILDING	
Last material condition: NONE New ma	aterial description:	GOOD CONDITION
Change in material condition: [] YES [X NO SOM	E ABATEMENT	
Material description: ACOUSTICAL TILE (1X1)		
Homogeneous area(s): USA #8, BASEMENT		
Last material condition: NONE New ma	aterial description:	GOOD CONDITION
Change in material condition: [] YES [x] NO SAME	PLE TESTED NEGATIVE	
Comments: BASEMENT: N.W. DIRT CRAWL SPACE: A	ACM DEBRIS THROUGHOU	JT
N.W. CUSTODIAN RM: ENCAPSULATION COMING OFF	NW END OF OVERHEAD	PIPE, AT WALL.
W. CUSTODIAN CLOSET'S DIRT CRAWL SPACE: ACM	DEBRIS IN DIRT.	
ROOM 16 TUNNEL ACCESS: ACM INSULATION DAMAGE	ED, DEBRIS ON FLOOR	OF TUNNEL.
Signature:	Date: 8/26/02	
JEFFERY SMITH	Date0720792_	

### Periodic Surveillance Report

Campus: <u>006-WILLAME</u> Address: 1403 S.E. 1	TTE 2TH ST., WEST LINN	Building: Date of surveillance:	MAIN BLDG. 8726792
Person conducting surve	illance:JEFF	SMITH	
Material description:	DROP OR LAY-IN PAN		
Last material condition: Change in material cond	NONE         NO           ition:         []         YES         []         NO	New material description: SAMPLE TESTED NEGATI	GOOD CONDITION
Material description:	ACOUSTICAL/THERMAL	PLASTER	
Last material condition: Change in material cond	GOOD N ition: [] YES [] NC	New material description: ABATED	SAME
Material description: Homogeneous area(s):	ACOUSTICAL/THERMAL	PLASTER	
Last material condition: _ Change in material condi	<u>GOOD</u> N ition: [] YES [X] NC	Vew material description:	SAME
Material description: Homogeneous area(s):	ACOUSTICAL/THERMAL	PLASTER	
Last material condition: Change in material condi	GOOD N tion: [] YES [3] NC	New material description:	SAME
Material description: Homogeneous area(s):	ACOUSTICAL/THERMAL USA #13, BASEMENT	PLASTER	
Last material condition: Change in material condi	GOOD N tion: [] YES [] NO	lew material description: 	SAME
Material description: Homogeneous area(s):	FIREPROOFING USA #14, FIRST FLC	DOR	
Last material condition: _ Change in material condi	<u>GOOD</u> N tion: [] YES [∱ NO	lew material description:	SAME
Material description: Homogeneous area(s):	DROP OR LAY-IN PAN USA #15, BASEMENT	NEL	······
Last material condition: _ Change in material condi	NONEN tion: [] YES [∦ NO	ew material description: SAMPLE TESTED NEGATI	GOOD CONDITION
Comments: <u>ROOM #15;</u> AND DEBRIS THROUGHOU	TUNNEL ACCESS (TWO T TUNNEL.	OF THEM): ACM ON PIPIN	G DAMAGED
MAIN FLOOR: W. FRONT ELBOW S. OF DOOR, IN	ENTRANCE CLOSET NE CLOSET, AT FLOOR L	EXT TO WATER FOUNTAIN: EVEL.	ONE DAMAGED
<u> </u>	11 SA	۲۵۲/۶ ۵/۱۶/۶	Q2
Signature:	JEFFERY SMITH	Date:07207	J6



### Periodic Surveillance Report

Campus: 006-WILLAMETTE	Building:	MAIN BLDG.
Address:	Date of surveinance.	0/20/92
Person conducting surveillance:	Т <u>н</u>	
Material description: VINYL FLOOR TILE		
Homogeneous area(s): USA #99, ALL FLOORS IN	N BUILDING	CANE
Last material condition: GOOD New r	naterial description:	SAME
Change in material condition: [] YES [] NO		
Material description: BOILER		
Homogeneous area(s): USA #1, BOILER ROOM		·····
Last material condition: <u>GOOD</u> New r	naterial description:	SAME
Change in material condition: [] YES [] NO A	BATED	·····
Material description: JOINTS		
Homogeneous area(s): USA #1, BOILER ROOM		
Last material condition: <u>GOOD</u> New r	naterial description:	SAME
Change in material condition: [] YES [] NO AE	BATED	
Material description: PIPING		
Homogeneous area(s): USA #1, BOILER ROOM		
Last material condition: GOOD New r	naterial description:	SAME
Change in material condition: [] YES [] NO		
Material description:		
Homogeneous area(s): USA #1, BOILER ROOM		
Last material condition: <u>GOOD</u> New r	naterial description:	SAME
Change in material condition: [] YES [] NO <u>AE</u>	BATED	
Material description: WRAPPED PIPE COVER		
Homogeneous area(s): USA #50, TEACHER WORK	AREA & ROOM #19	
Last material condition:GOOD New n	naterial description:	SAME
Change in material condition: [] YES [] NO		
Material description MUP ON WRAPPED PIPE CO	)VFR	
Homogeneous area(s): USA #51. TEACHER WORK	AREA & ROOM #19	
Last material condition: GOOD New n	naterial description:	SAME
Change in material condition: [] YES [] NO		
Comments:		·
	······	
	· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·
Signature:	Date: 8/26/92	
LEFEERY CMITU		

MEDFORD

## ASBESTOS SAMPLE / MATERIAL LOCATION DIAGRAM

## ASBESTOS SAMPLE ANALYSIS DATA

· . ·



Environmental Safety & Health Services

COMPANY: WEST LINN WILSONVILLE SCHOOL DISTRICT FACILITY: WILLAMETTE PRIMARY INSPECTION DATES: 8/14/01 ASBESTOS SURVEY REPORT DATE: August, 2001 INSPECTOR: Darren Lee CERT. NUMBER: OR-00-6082 NVLLAP CERT: 101882-0

Office 503:650:8370 - Fax 503:650:8371 - P.O. Box 519 - Gladstone, OR 97027

### ASBESTOS INVESTIGATIVE REPORT

Sample #:	Material Description:	Sample Location:	HSA#	Total Asbestos:
WP-01	Ceiling Tile (1x1) white	Classroom # 20	01	0%
WP-02	Ceiling Tile (1x1) white	Classroom # 20	01	0%
WP-03	Ceiling Tile (1x1) white	Classroom # 20	01	0%
WP-04	Ceiling Plaster, above Ceiling Tile (1x1) white	Classroom # 20	02	0%
WP-05	Ceiling Plaster, above Ceiling Tile (1x1) white	Classroom # 20	02	0%
WP-06	Ceiling Plaster, above Ceiling Tile (1x1) white	Classroom # 20	02	0%

GL			EHS 08-01-2542	CHAIN G_ '	CUSTODY	J [	Page 🖄	
Attention: Company Nan Maifing Addre	NIMEN	FAX	P.O. Box 519 - Gladstone, OR 97027	SAMPLE TYPE ASHESTOS PLM (Dolk) PLM AHERA PCM (Air) Sample Group DTEM (Air) LEAD AA Flame (sir) TCLP EPA 100/500 Series (Drinking Water)	SAMPLE TURNAROUND [] Standard (5 day) [] Priority_(3 day) [] Rush (2-1 hour) [] Other (specify)	TRE Client Number P.O. Number: Project Number: _C Date Sampled: $\mathcal{D}_{1}$ Date Submitted: $\mathcal{D}_{2}$	10Z 14 /01 14 /01	
Sample ID	Date	Positive Stop	Sample D	escription	Sample Location	Quantity (SF/LF)	Volume	Result
WP-01 WP-02 WP-03 WP-04 WP-05 WP-06		* ->* ->	CEILING TILE (1 II II II II PLASTER (CEILING II II III II SAMPLE CONDI Acceptable Unacceptable	× / ) // // // // // // // // // /	$ \begin{array}{c}     Rom # 20 \\     1' \\     1' \\     1' \\     Rom # 20 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\     11 \\  $			
	Sampled By: (	Sign	Relinquish	çel By: (Siter) Da	I Rec H II: Sham LAB:	ieved By: (Sign)	Date 8210)	Time 9 3 ar

## **Certificate of Completion**

Vergyergyerg

This is to certify that Darren D. Lee has satisfactorily completed 4 hours of refresher training as a

### **Building Inspector**

in compliance with TSCA Title II AHERA Accredited

October 25, 2000

Training Coordinator

Date Expires Oct 25, 2001



Cert. # 00-6082 Conducted at: Pac Pro Safety & Health Services

Prezant Associates, Inc. • 330 Sixth Avenue North, Suite 200 • Seattle, Washington 98109 • (206) 281-8858

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- Ni Of Standards a	nd Technology	National Voluntary Laboratory Accreditation f	Program
ISO/IEC GUIDE ISO 9002:1987	Scope of	Accreditation	A STATE
		Page: 1 of	F 1
BULK ASBEST	OS FIBER ANALYSIS	NVLAP LAB CODE 10188	2-0
	ENVIRONMENTAL H 7469 WI Richmon Ms. Irr Phone: 804-275-4 E-Mail: mana	AZARDS SERVICES, L.L.C. nite Pine Road nd, VA 23237 na Faszewski 788 Fax: 804-275-4907 gergage@leadlab.com	
V.LAP Code	Designation		
	Insulation Samples		
-		D 1. 3 Dialante	
	floring through	Frank P. Under Standing	

For the National Institute of Standards and Technology

*
### PERIODIC SURVEILLANCE

This section reflects requirements outlined in 40 CFR 763.92 (3) (b) (2) (i-iii)

- ACTION: Check the condition of the asbestos-containing materials (ACM) at least every 6 months.
- **TRAINING:** None required; O & M or Inspector suggested.
- **FORM:** Use the form included in this Section.

A well-run asbestos management program must include periodic surveillance of the ACBM. Periodic surveillance is the scheduled observation of asbestos materials to determine if any damage or deterioration occurred since the previous observation. Because much of the ACBM is observed daily by the school staff during normal work and also because many areas are not accessible, slight changes in the condition of the ACBM occurring over time may not be readily apparent.

Some building owners conduct monthly surveillance. AHERA requires surveillance in K-12 schools at no greater than six month intervals, and this is a prudent minimal frequency for any Owner. This periodic surveillance can save the building owner considerable time money, and embarrassment in the event of ACBM deterioration or damage. Moreover, properly conducted surveillance provides a great deal of comfort to building workers and occupants.

## SURVEILLANCE PERSONNEL:

AHERA establishes no training requirements for the persons conducting the periodic surveillance. Any employee or contractor selected by the Asbestos Program Coordinator is allowed to conduct the surveillance. Three Rivers Environmental Inc. recommends that the observer either take a 16hour Operations and Maintenance course or a 3-day inspector course. The individual should be knowledgeable of the building's construction, previous inspections and surveillances, generation of records, conditions to be observed, and personal protections. It is the Owner's responsibility to ensure that the surveillance does not cause an exposure of safety problem for the person conducting this activity.

## DATA REQUIREMENTS:

All areas with ACBM or suspected ACBM must be visually examined in each periodic surveillance. A record of the surveillance date and the person conducting the surveillance, as well as any changes in ACBM conditions, must be recorded. This requires the person to be knowledgeable of earlier ACBM conditions. The records generated by this periodic inspection must be filed in the Management Plan at the Owner's administrative office. It is recommended that the reports to be filed in the administrative office be submitted to the Asbestos Program Coordinator for review.

### SURVEILLANCE CONCERNS:

The person conducting the periodic surveillance must observe the same major factors that were observed in the original inspection and that were used to assess the material's conditions. The six items to be evaluated are:

- -- Deterioration or delamination of the materials.
- -- Physical damage to the material or adjacent areas.
- -- Water damage of any material in the area.
- -- Air-stream effects
- -- Exposure, accessibility and activity changes.
- -- Changes in building use.

### PERIODIC SURVEILLANCE

## **RECORDKEEPING:**

File Periodic Surveillance Reports under TAB 8 and utilize the appropriate form.

### **COMMUNICATIONS:**

Any changes in conditions or notable circumstance should be communicated to the Asbestos Program Coordinator. The updated information is to be included in the Management Plan and in the annual notification letters.

AHERA

J.14.00

Six Month Periodic Surveillance

# WEST LINN SCHOOL DISTRICT #3Jt

# OF

Willamette Primary School 1403 S.E. 12th Street West Linn, OR 97068

Project No. 1020-109 Signature & Date S-17.00 ________ Cettification # & State BBERT C. MOATEOMERY AHERA Inspector <u>MP-00-8795</u>, <u>OP</u>, 5-17-00 Certification # & State Poterb Ctthe mon BOBERT C. MONTGOMERY Management Planner Signature & Date Prepared by:

THREE RIVERS ENVIRONMENTAL. Inc.

P.O. Box 216 Gladstone, OR 97027 Phone (503) 557-2396 Fax (503) 557-3025

•.

Client: West Linn School District

Page #: 1 of 3 TRE Job#: 1020-109

Campus: Willamette Primary Address: 1403 SE 12th Street	Building: Main Date of Surveillance: May 2000
Person Conducting Surveillance:	Robert Montgomery
Material Description: Boiler/Tank Ir Homogeneous area(s): HK USA #C Last Material Condition: Good	nsulation/Mechanical Insulation )1 New Material Description: Same
Change in material condition:	No
Material Description: Boiler/Tank Ir Homogeneous area(s): HK USA #0	nsulation/Mechanical Insulation
Last Material Condition: Good Change in material condition:	New Material Description: Same No
Material Description: Low Pressure Homogeneous area(s):	Steam/MJP on Pipe Covering
Last Material Condition: Good Change in material condition:	New Material Description: Same No
Material Description: Domestic Hot Homogeneous area(s): HK USA #0	Water/MJP on Wrapped Pipe Cover
Last Material Condition: Good Change in material condition:	New Material Description: Same No
Material Description: Domestic Col Homogeneous area(s): HK USA #0	d Water/MJP on Wrapped Pipe Cover
Last Material Condition: Good Change in material condition:	New Material Description: Same
Material Description: Domestic Col Homogeneous area(s): HK USA #0	d Water/Wrapped Paper Pipe Cover
Last Material Condition: Good Change in material condition:	New Material Description: Same No
Material Description: Domestic Hot Homogeneous area(s):	Water/Wrapped Paper Pipe Cover
Last Material Condition: Good Change in material condition:	New Material Description: Same No

Client: West Linn School District

Page #: 2 of 3 TRE Job#: 1020-109

Campus: Willamette Primary	Building: Main
Address: 1403 SE 12th Street	Date of Surveillance: May 2000
Person Conducting Surveillance:	Robert Montgomery
Material Description: Low Pressure	Steam/Pipe Covering
Homogeneous area(s): HK USA #0	)1
Last Material Condition: Good	<b>New Material Description:</b> Same
Change in material condition:	No
Material Description: Low Pressure	Steam/Wrapped Paper Pipe Cover
Homogeneous area(s): HK USA #0	2
Last Material Condition: Good	<b>New Material Description:</b> Same
Change in material condition:	No
Material Description: Low Pressure	Steam/MJP on Wrapped Pipe Cover
Homogeneous area(s): HK USA #0	3
' ast Material Condition: Good	<b>New Material Description:</b> Same
hange in material condition:	No
Material Description: Domestic Hot Homogeneous area(s): Last Material Condition: Good Change in material condition:	Water/Wrapped Paper Pipe Cover New Material Description: Same No
Material Description: Domestic Hot	Water/MJP on Wrapped Pipe Cover
Homogeneous area(s): HK USA #0	05
Last Material Condition: Good	<b>New Material Description:</b> Same
Change in material condition:	No
Material Description: Domestic Cold Homogeneous area(s): Last Material Condition: Good Change in material condition:	Water/MJP on Wrapped Pipe Cover New Material Description: Same No
Material Description: Acoustical/The	ermal Plaster
Homogeneous area(s): HK USA #1	0
Last Material Condition: Good	<b>New Material Description:</b> Same
Change in material condition:	No
Material Description: Acoustical/The	ermal Plaster
Homogeneous area(s): HK USA #0	)7
Last Material Condition: Good	<b>New Material Description:</b> Same
Change in material condition:	No

Client: West Linn School District

Page #: 3 of 3 TRE Job#: 1020-109

**Campus:** Willamette Primary **Address:** 1403 SE 12th Street Building: Main Date of Surveillance: May 2000

Person Conducting Surveillance: Robert Montgomery

Material Description: Acoustical Thermal Plaster Homogeneous area(s): HK USA #12 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Acoustical Thermal Plaster Homogeneous area(s): HK USA #13 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Fireproofing Homogeneous area(s): HK USA #14 Last Material Condition: Good New Material Description: Same **Change in material condition:** No Material Description: Vinyl Floor Tile Homogeneous area(s): HK USA #99 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: TSI Hard Fittings Homogeneous area(s): 1 sq. ft., 1 damaged hard fitting, wall intrusion, cracks at hanger loctn. Last Material Condition: Good New Material Description: Same Change in material condition: No

THREE RIVERS ENVIRONMENTAL, Inc.

June 2, 2000

West Linn-Wilsonville School District Attention: Tim Woodley P.O. Box 35 West Linn, OR 97068

Dear Mr. Woodley,

Three Rivers Environmental, Inc. appreciates the opportunity that we had to conduct your AHERA Re-inspection of asbestos containing building materials. This reinspection consisted of the review and updating of all AHERA records under current regulatory guidelines and the inspection and assessment of all asbestos containing materials in eight schools with addition of the Administration Building within West Linn-Wilsonville School District. The review of all AHERA records and the assessments of all asbestos containing building materials were performed by an accredited AHERA Building Inspector and Management Planner.

The following are the "Areas of Concern" for each individual school and the materials that were located that are in need of immediate attention.

West Linn High School-

Material:	TSI hard fittings, mag lines over corrugated pipe covering	
Assessment noted:	50 hard fittings, 40 ln. ft. under S. wing of high school	
Recommended Response Action:		Immediately isolate, restrict access, clean-up debris and maintain in an intact and undamaged condition.

Material:	MJP on pipe covering (12" O.D.)	
Assessment noted:	1 sq. ft. TSI damaged exposed in gym (E. side above landing)	
Recommended Resp	oonse Action:	Repair and maintain in an intact and undamaged condition.

## West Linn High School cont.

Material:
Sheet vinyl

Assessment noted:
290 sq. ft. torn sheet vinyl between cafeteria & stairs to commons area

Descense and ad Demonse Actions
Abits music Control of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of the stairs of

Recommended Response Action: Abate, repair flooring and replace

## Willamette Primary-

Material:	TSI hard fittings	
Assessment noted:	1 sq. ft., 1 damaged hard fitting, wall intrusion, cracks at hanger location.	
Recommended Res	onse Action:	Repair and maintain in an intact and undamaged condition.

# Wilsonville Primary-

Material:	Floor tile, 12x12	
Assessment noted:	7 ln. or sq. ft. of tile cracked severely at stress line.	
Recommended Resp	onse Action:	Remove and repair damaged tiles and maintain in an intact and undamaged condition.

#### Inza R. Wood Primary-

Material:	Hard fitting, mag	
Assessment noted:	l hard fitting slightly damaged in mechanical room	
Recommended Resp	onse Action:	Repair and maintain in an intact and undamaged condition.

## West Linn High School (Bolton Campus)-

Material:	Corrugated pipe covering	
Assessment noted:	1 sq. ft. exposed TSI pipe covering in basement storage room	
Recommended Resp	onse Action:	Repair and maintain in an intact and undamaged condition.

Cedar Oak Park Primary-

Material:	Vibration join	nt cloth
Assessment noted:	2 sq. ft. damaged corners in fan room (West)	
<b>Recommended Response Action:</b>		Remove or repair and maintain in an intact and undamaged condition.
Material:	TSI air cell n	ining

1740.001 101.	101 an comp	hug
Assessment noted:	1 sq. ft. damaged TSI in boiler room, S. wall	
Recommended Resp	onse Action:	Remove or repair and maintain in an intact and undamaged condition.

# Administration Building-

Material:	Woven paper tape	
Assessment noted:	8 sq. ft. of damaged paper tape on walls in boiler room	
Recommended Resp	onse Action:	Repair or replace and maintain in an intact or undamaged condition.



# **Periodic Surveillance Report**

for

# WEST LINN-WILSONVILLE SCHOOL DISTRICT 3JT

WILLAMETTE PRIMARY

1403 SE 12th Street West Linn, OR

Project No. 1020-40

April 1999

Prepared by

12 11 2 12 11 4124040 ENVIRONMENTAL

P.O. Box 216 Arlington Gladstone, Oregon 97027 (503) 557-2396

Page #: 1 of 3 TRE Job#: 1020-40

Client: West Linn School District

Campus:	Willamette Primary	Building: Main
Address:	1403 SE 12th Street	Date of Surveillance: April 1999

Person Conducting Surveillance: Matthew Johnson

	Material Description: Boiler/Tank Insulation/Mechanical Insulation				
	Last Material Condition: Good	New	Material	Description:	Same
	Change in material condition:	No		·	
	Material Description: Boiler/Tank I Homogeneous area(s): HK USA #	nsulati 01	on/Mechar	nical Insulation	
	Last Material Condition: Good Change in material condition:	<b>New</b> No	Material	Description:	Same
	Material Description: Low Pressure Homogeneous area(s):	e Stear	m/MJP on	Pipe Covering	
	Last Material Condition: Good Change in material condition:	New No	Material	Description:	Same
	Material Description: Domestic Hot Homogeneous area(s): HK USA #	Water. 01	/MJP on W	/rapped Pipe Co	over
	Last Material Condition: Good Change in material condition:	<b>New</b> No	Material	Description:	Same
	Material Description: Domestic Col Homogeneous area(s): HK USA #	ld Wate	er/MJP on	Wrapped Pipe	Cover
	Last Material Condition: Good Change in material condition:	New No	Material	Description:	Same
·	Material Description: Domestic Cold Water/Wrapped Paper Pipe Cover				
	Last Material Condition: Good Change in material condition:	New No	Material	Description:	Same
	Material Description: Domestic Hot Water/Wrapped Paper Pipe Cover Homogeneous area(s):				
	Last Material Condition: Good Change in material condition:	<b>New</b> No	Material	Description:	Same
1 e 1					

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Client: West Linn School District

Page #: 2 of 3 TRE Job#: 1020-40

Campus: Willamette Primary Address: 1403 SE 12th Street

Change in material condition:

Building: Main Date of Surveillance: April 1999

Person Conducting Surveillance: Matthew Johnson

Material Description: Low Pressure Steam/Pipe Covering Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/Wrapped Paper Pipe Cover Homogeneous area(s): HK USA #02 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #03 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Hot Water/Wrapped Paper Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Hot Water/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #05 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Cold Water/MJP on Wrapped Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Acoustical/Thermal Plaster Homogeneous area(s): HK USA #10 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Acoustical/Thermal Plaster Homogeneous area(s): HK USA #07 Last Material Condition: Good New Material Description: Same

No

Client: West Linn School District

Page #: 3 of 3 TRE Job#: 1020-40

Campus: Willamette PrimaryBuilding: MainAddress: 1403 SE 12th StreetDate of Surveillance: April 1999

Person Conducting Surveillance: Matthew Johnson

Material Description: Acoustical Thermal PlasterHomogeneous area(s):HK USA #12Last Material Condition:GoodNew Material Description:Change in material condition:No

Material Description: Acoustical Thermal PlasterHomogeneous area(s):HK USA #13Last Material Condition:GoodNew Material Description:Change in material condition:No

Material Description: FireproofingHomogeneous area(s):HK USA #14Last Material Condition:GoodNew Material Description:Change in material condition:No

Material Description: Vinyl Floor TileHomogeneous area(s):HK USA #99Last Material Condition:GoodNew Material Description:SameChange in material condition:No

Signature

# ASBESTOS ABATEMENT SUMMARY Work Order No.: <u>/ozo-yy</u>

Job Location: Will Ametre BRinning School Floor. Ground Base ment.					
Project: Lowere Level Gipls Pert Room. / Lower Level MECHANICAL Am					
TUNNEL ACCESSES INRM 15 :16, RM #19 SPEECH Rm ' Storage RM.					
For pipe provide: Total linear feet $230$ and pipe size $4'' - 2''$					
For other materials provide: Total square feet:					
Type of ACM: <u>TS1 - 40 H.F.</u>					
Start Date: June 21 1999 Completion Date: July 2 1999					
Methods to Control Emissions: 150/ 4710N, WET METHODS, Full Confain ment					
Give name of Contractor of Subcontractor:					
Name: INSULATION REMOUAL SPECIALIST					
Address: 755 SW DENNIS Ave.					
City: <u>Hills borg</u> State: <u>OR</u> Zip: <u>97123</u>					
Phone: 503 693-6388 Contact person: BRUCE Korum					
Name of Monitoring Lab: THREE RIVERS ENVIRONMENTAL					
Anticipated Disposal Site: Hills boro LAND Fill					
Supervisor in charge of job: RON CHAUEZ					
Project Manager: MATT Johnson					
Name: MATT Johnson Date: 6-21-99 Then 07-2-99 Phone: 557-2396					
Asbestos Program Manager: JOE Simmons					
Name: $\underline{Jois Simmours}$ Date: Phone: $\underline{Sos} = 6869$ .					

Attach pre-abatement and post-abatement air sample results

Joe Simmons West Linn-Wilsonville School District Administration Building P.O. Box 35 West Linn, OR 97068

#### Subject: AHERA 6 Month Reinspection Areas of Concern::

Dear Mr. Simmons:

Three Rivers Environmental has completed the AHERA 3 Year Reinspection. The list below are areas that need to be addressed in the Operation and Maintenance Plan and scheduled for repair or removal:

Bolton Middle School:	
Boiler Room:	3 sq. ft. previous encapsulation delaminating needs
Custodial Office:	1 sq. ft. exposed piping.
Hallway/Storage	2 sq. ft. previous encapsulation delaminating needs
(N. of boiler room)	bridging.
Weight Room:	1 sq. ft. damaged Hard Fitting. 1 sq. ft. exposed seam.
West Linn High School: Boiler Room:	3 sq. ft. exposed boiler insulation with debris. 2 sq. ft. exposed cold water piping.
Willamette Primary: Elect. Room Below Cafe:	1 sq. ft. exposed Hard Fitting.
Inza R. Wood: Kitchen Supply Closet:	2 sq. ft. damaged Hard Fittings.

Should you have questions or comments, please contact me at your convenience.

Respectfully submitted,

Jeff Smith Three Rivers Environmental



# **Periodic Surveillance Report**

for

# WEST LINN-WILSONVILLE SCHOOL DISTRICT 3JT

WILLAMETTE PRIMARY

1403 SE 12th Street West Linn, OR

Project No. 1020-12

August 1997

Prepared by

ENVIRONMENTAL

P.O. Box 216 Gladstone, Oregon 97027 (503) 557-2396

Client: West Linn School DistrictPage #: 1 of 3TRE Job#: 1020-12

**Campus:** Willamette Primary Building: Main Address: 1403 SF 12th Street Date of Surveillance: August 1997 Person Conducting Surveillance: Glenn Bryant Material Description: Boiler/Tank Insulation/Mechanical Insulation Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Boiler/Tank Insulation/Mechanical Insulation Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/MJP on Pipe Covering Homogeneous area(s): ast Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Hot Water/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Cold Water/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Cold Water/Wrapped Paper Pipe Cover Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Hot Water/Wrapped Paper Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No

Client: West Linn School District

Page #: 2 of 3 TRE Job#: 1020-12

**Campus:** Willamette Primary **Address:** 1403 SE 12th Street

Building: Main Date of Surveillance: August 1997

Person Conducting Surveillance: Glenn Bryant

Material Description: Low Pressure Steam/Pipe Covering Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/Wrapped Paper Pipe Cover Homogeneous area(s): HK USA #02 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #03 Last Material Condition: Good New Material Description: Same hange in material condition: No Material Description: Domestic Hot Water/Wrapped Paper Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Hot Water/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #05 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Cold Water/MJP on Wrapped Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Acoustical/Thermal Plaster Homogeneous area(s): HK USA #10 Last Material Condition: Good New Material Description: Same Change in material condition: No laterial Description: Acoustical/Thermal Plaster Homogeneous area(s): HK USA #07 Last Material Condition: Good New Material Description: Same Change in material condition: No

-lient: West Linn School District

Page #: 3 of 3 TRE Job#: 1020-12

Campus: Willamette Primary Address: 1403 SE 12th Street Building: Main Date of Surveillance: August 1997

Person Conducting Surveillance: Glenn Bryant

Material Description: Acoustical Thermal PlasterHomogeneous area(s):HK USA #12Last Material Condition:GoodNew Material Description:Change in material condition:NoMaterial Description: Acoustical Thermal PlasterHomogeneous area(s):HK USA #13Last Material Condition:GoodNew Material Description:Change in material condition:ModMaterial Description:Acoustical Thermal PlasterHomogeneous area(s):HK USA #13Last Material Condition:GoodNew Material Description:SameChange in material condition:No

Material Description: FireproofingHomogeneous area(s):HK USA #14Last Material Condition:GoodNew Material Description:Samehange in material condition:No

Material Description: Vinyl Floor Tile Homogeneous area(s): HK USA #99 Last Material Condition: Good New Material Description: Same Change in material condition: No

Signature <u>GB</u>.

# AHERA

# **Periodic Surveillance Report**

for

# WEST LINN-WILSONVILLE SCHOOL DISTRICT 3JT

WILLAMETTE PRIMARY 1403 SE 12th Street

West Linn, OR

Project No. 1020-10

February 1997

Prepared by

ENVIRONMENTAL

P.O. Box 216 Gladstone, Oregon 97027 (503) 557-2396

Client: West Linn School District

Page #: 1 of 3 TRE Job#: 1020-10

Campus: Willamette Primary Building: Main Address: 1403 SE 12th Street Date of Surveillance: Feb. 1997 Person Conducting Surveillance: Jeff Smith Material Description: Boiler/Tank Insulation/Mechanical Insulation Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Boiler/Tank Insulation/Mechanical Insulation Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/MJP on Pipe Covering Homogeneous area(s): nst Material Condition: Good New Material Description: Same change in material condition: No Material Description: Domestic Hot Water/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Cold Water/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Cold Water/Wrapped Paper Pipe Cover Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Hot Water/Wrapped Paper Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No

Page #: 2 of 3 TRE Job#: 1020-10

-ient: West Linn School District

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Campus: Willamette Primary Address: 1403 SE 12th Street Building: Main Date of Surveillance: Feb. 1997

Person Conducting Surveillance: Jeff Smith

Material Description: Low Pressure Steam/Pipe Covering Homogeneous area(s): HK USA #01 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/Wrapped Paper Pipe Cover Homogeneous area(s): HK USA #02 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Low Pressure Steam/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #03 Last Material Condition: Good New Material Description: Same nange in material condition: No Material Description: Domestic Hot Water/Wrapped Paper Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Hot Water/MJP on Wrapped Pipe Cover Homogeneous area(s): HK USA #05 Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Domestic Cold Water/MJP on Wrapped Pipe Cover Homogeneous area(s): Last Material Condition: Good New Material Description: Same Change in material condition: No Material Description: Acoustical/Thermal Plaster Homogeneous area(s): HK USA #10 Last Material Condition: Good New Material Description: Same Change in material condition: No aterial Description: Acoustical/Thermal Plaster Homogeneous area(s): HK USA #07 Last Material Condition: Good New Material Description: Same Change in material condition: No

_.ient: West Linn School District

Page #: 3 of 3 TRE Job#: 1020-10

Campus: Willamette Primary Address: 1403 SE 12th Street Building: Main Date of Surveillance: Feb. 1997

Person Conducting Surveillance: Jeff Smith

Material Description: Acoustical Thermal PlasterHomogeneous area(s):HK USA #12Last Material Condition:GoodNew Material Description:Change in material condition:No

Material Description: Acoustical Thermal PlasterHomogeneous area(s):HK USA #13Last Material Condition:GoodNew Material Description:Change in material condition:No

Material Description: FireproofingHomogeneous area(s):HK USA #14Last Material Condition:GoodNew Material Description:SameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSameSame<

Material Description: Vinyl Floor TileHomogeneous area(s):HK USA #99Last Material Condition:GoodNew Material Description:Change in material condition:No

Signature

# AHERA

# **Three Year Asbestos Reinspection**

for

# WEST LINN-WILSONVILLE SCHOOL DISTRICT 3JT

WILLAMETTE PRIMARY

1403 SE 12th Street West Linn, OR

Project No. 1020-15

September 1998

Prepared by

ENVIRONMENTAL

P.O. Box 216, Gladstone, Oregon 97207 (503) 557-2396 Fax (503) 557-3025

### REINSPECTIONS

This section reflects requirements outlined in 40 CFR 763.85 (b) (l) through (c)

- **ACTION:** Reinspection is recommended every 3 years.
- **TRAINING:** Accredited Inspector/Management Planner. Decide if you will train in-house people or not.
- **FORM:** Update management plan using Inspector's report format.

At least once every three years, after the Management Plan is in effect, all buildings should be reinspected by an accredited Inspector. This differs from the periodic surveillance and is more comprehensive because the material is actually touched to determine friability or change in friability, along with noting assessment criteria such as condition. The reinspection may also include additional samples of suspect material, accessing previously inaccessible areas, and other activities. The person performing these tasks should, at least, be an accredited Inspector. An accredited Management Planner may be necessary to recommend additional response actions.

The decisions an LEA must make prior to this reinspection is to either train their in-house staff to perform the reinspection or utilize an outside consultant.

The AHERA-accredited Inspector training course is three days long, with a 50-question exam that must be passed. An AHERA Management Planner training course is an additional two days with another 50-question exam. If a person is presently an accredited Inspector or Management Planner, they must have an annual refresher course to keep their accreditation current.

#### **RECORDKEEPING:**

Keep the reinspection records in this TAB section, along with any new data. New sample locations should be noted on copies of the drawings in TAB 7, and then filed in this section.

# AHERA

**Three Year Asbestos Reinspection** 

# WEST LINN SCHOOL DISTRICT #3Jt

# OF

Willamette Primary School 1403 S.E. 12th Street West Linn, OR 97068

Project No. 1020-68

Prepared by:

THREE RIVERS ENVIRONMENTAL. Inc.

P.O. Box 216 Gladstone, OR 97027 Phone (503) 557-2396 Fax (503) 557-3025

### Material: Boiler/tank insulation/mechanical insulation, USA 01

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Tank; DHW tank W. side

Quantity: Approximately 275 sq. ft. mechanical insulation

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Boiler/tank insulation/mechanical insulation, USA 01

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Boiler, S.E. corner

Quantity: Approximately 350 sq. ft.

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Low pressure steam/MJP on pipe covering

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Joints; W. side of tank

Quantity: Approximately 8 ln. ft.-14 in. O.D. low pressure steam 30 ln. ft.-6 in. O.D. low pressure steam

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

AHERA RE-INSPECTION NOVEMBER 1999 Page 4 of 31

## **AHERA Re-inspection**

### Material: Domestic hot water/MJP on wrapped paper pipe cover USA 01

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Joints; N.W. corner over stairs

Quantity: Approximately 45 ln. ft.-4 in. O.D. domestic hot water

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Domestic cold water/MJP on wrap paper pipe cover USA 01

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Joints; DHW tank S. side

Quantity: Approximately 35 ln. ft.-4 in. O.D. domestic cold water

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Domestic cold water/wrapped paper pipe cover, USA 01

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Piping; DHW tank S.W. corner

Quantity: Approximately 200 ln. ft.-4 in. O.D. domestic cold water

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Domestic hot water/wrapped paper pipe cover

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Piping, N.W. corner over stairs

Quantity: Approximately 200 ln. ft.-4 in. O.D. domestic hot water

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Low pressure steam/wrapped paper pipe cover, USA 02

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Piping, W. side of tank

Quantity: Approximately35 ln. ft.-14 in. O.D. low pressure steam250 ln. ft.-6 in. O.D. low pressure steam

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Low pressure steam/wrapped paper pipe cover, USA 02

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: All floors in building

Quantity: Approximately 50 ln. ft.-4 in. O.D. 100 ln. ft.-6 in. O.D.

### Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: yes Assessment noted: Abated Summer 199

Previous AHERA category: ACBM with potential for damage

New AHERA category:

### Material: Low pressure steam/wrapped paper pipe cover, USA 02

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: All floors in building

Quantity: Approximately 30 ln. ft.-4 in. O.D. 20 ln. ft.-6 in. O.D.

### Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:
AHERA RE-INSPECTION NOVEMBER 1999 Page 11 of 31

## **AHERA Re-inspection**

#### Material: Domestic hot water/wrapper paper pipe cover

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: All floors in building

Quantity: Approximately 225 ln. ft-4 in. O.D.

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

#### Material: Domestic hot water/MJP on wrapped pipe cover, USA 05

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: All floors in building

Quantity: Approximately 120 ln. ft.-4 in. O.D. Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

AHERA RE-INSPECTION NOVEMBER 1999 Page 13 of 31

## **AHERA** Re-inspection

#### Material: Domestic cold water/MJP on wrapped pipe cover

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: All floors in building

Quantity: Approximately 76 ln. ft.-4 in. O.D.

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

#### Material: Acoustical/thermal plaster, USA 10

**Description:** Surfacing

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: First floor

Quantity: Approximately 4,960 sq. ft.-some removed

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: Any remaining friable ACBM or friable surfacing ACBM

**Recommended response action:** Reassess quantity and location, maintain in an intact and undamaged condition.

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AHERA RE-INSPECTION NOVEMBER 1999 Page 15 of 31

### **AHERA** Re-inspection

### Material: Acoustical/thermal plaster, USA 11

**Description:** Surfacing

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: First floor

Quantity: Approximately 900 sq. ft.

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: Any remaining friable ACBM or friable surfacing ACBM

**Recommended response action:** Reassess quantity and location, maintain in an intact and undamaged condition.

#### Material: Acoustical/thermal plaster

**Description:** Surfacing

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Basement

Quantity: Approximately 3,300 sq. ft.

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

Overall condition: good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: Any remaining friable ACBM or friable surfacing ACBM

**Recommended response action:** Reassess quantity and location, maintain in an intact and undamaged condition

#### Material: Acoustical/thermal plaster, USA 13

**Description:** Surfacing

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Basement

Quantity: Approximately 700 sq. ft.

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: Any remaining friable ACBM or surfacing material

**Recommended response action:** Reassess quantity and location, maintain in an undamaged and intact condition.

## Material: Fireproofing, USA 14

**Description:** Surfacing

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: First floor

Quantity: Approximately 250 sq. ft.

Potential for disturbance:

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall condition:** 

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for significant damage

New AHERA category:

#### Material: HHWS/wrapped pipe cover, USA 50

**Description:** TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Teacher work area & rm. 19

Quantity: Approximately 85 ln. ft.-6 in. O.D. 25 ln. ft.-4 in. O.D.

#### Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

#### Material: HHWS/MJP on wrapped pipe cover, USA 51

Description: TSI

Sampled or Assumed: Sampled

Friable or Non-Friable: Friable

Locations: Teacher work area & rm. 19

Quantity: Approximately 12 ln. ft.-6 in. O.D. 12 ln. ft.-4 in. O.D.

#### Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: yes Assessment noted: Abated Summer 1999

Previous AHERA category: ACBM with potential for damage

New AHERA category:

AHERA RE-INSPECTION NOVEMBER 1999 Page 21 of 31

## **AHERA Re-inspection**

Material: Vinyl floor tile, USA 99

**Description:** Miscellaneous

Sampled or Assumed: Sampled

Friable or Non-Friable: Non-friable

Locations: All floors in building

Quantity: Approximately 45,000 sq. ft.

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

**Recommended response action:** Reassess quantity and location, maintain in an intact and undamaged condition.

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## **AHERA Re-inspection**

### Material: Drywall taping compound

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Friable

Locations: Throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

WEST LINN SCHOOL DISTRICT 3Jt WILLAMETTE PRIMARY-MAIN BUILDING PROJECT NO. 1020-68

AHERA RE-INSPECTION NOVEMBER 1999 Page 23 of 31

### **AHERA Re-inspection**

#### Material: Sheet vinyl mastic

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Non-friable

Locations: Under sheet vinyl, various locations throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

AHERA RE-INSPECTION NOVEMBER 1999 Page 24 of 31

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## **AHERA Re-inspection**

Material: Sheet vinyl

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Non-friable

Locations: Various locations throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

WEST LINN SCHOOL DISTRICT 3Jt WILLAMETTE PRIMARY-MAIN BUILDING PROJECT NO. 1020-68 AHERA RE-INSPECTION NOVEMBER 1999 Page 25 of 31

## **AHERA** Re-inspection

#### Material: Window putty

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Non-friable

Locations: Throughout school (on exterior windows)

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

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## **AHERA Re-inspection**

#### Material: Fire doors

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Non-friable

Locations: Throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

#### WEST LINN SCHOOL DISTRICT 3Jt WILLAMETTE PRIMARY-MAIN BUILDING PROJECT NO. 1020-68

AHERA RE-INSPECTION NOVEMBER 1999 Page 27 of 31

### **AHERA Re-inspection**

### Material: Cove base mastic

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Non-friable

Locations: Throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

AHERA RE-INSPECTION NOVEMBER 1999 Page 28 of 31

## **AHERA Re-inspection**

#### Material: Chalkboards

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Non-friable

Locations: In classrooms throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: ACBM with potential for damage

New AHERA category: ACBM with potential for damage

#### Material: Paint, interior

**Description:** Surfacing

Sampled or Assumed: Assumed

Friable or Non-Friable: Friable

Locations: Various locations throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: high Effect of vibration: low Potential for air erosion: moderate

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: Any remaining friable ACBM or friable suspect ACBM

New AHERA category: Any remaining friable ACBM or friable suspect ACBM

#### Material: Electrical wire casing

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Friable

Locations: Stage lights

Quantity: Not quantified

Potential for disturbance:

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall condition:** good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: Any remaining friable ACBM or friable suspect ACBM

New AHERA category: Any remaining friable ACBM or friable suspect ACBM

#### Material: Drop-in ceiling tile

**Description:** Miscellaneous

Sampled or Assumed: Assumed

Friable or Non-Friable: Friable

Locations: Various locations throughout school

Quantity: Not quantified

Potential for disturbance:

Potential for contact: moderate Effect of vibration: low Potential for air erosion: moderate

Overall condition: good

Change in condition from last inspection: no Assessment noted:

Previous AHERA category: Any remaining friable ACBM or friable suspect ACBM

New AHERA category: Any remaining friable ACBM or friable suspect ACBM

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 1 OF 21

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# **AHERA Re-inspection**

Material: Boiler/Tank Insulation/Mechanical Insulation, USA 01

Description: TSI, Sampled, Friable

Locations: Tank;DHW Tank South Side

Quantity: Approximately 275 sq. ft. Mechanical Insulation-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 2 OF 21

# **AHERA Re-inspection**

Material: Boiler/Tank Insulation/Mechanical Insulation, USA 01

Description: TSI, Sampled, Friable

Locations: Boiler; South East Corner

Quantity: Approximately 350 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

**Recommendations:** 

-

AHERARE-INSPECTION SEPTEMBER 1998 PAGE3 OF 21

# **AHERA Re-inspection**

#### Material: Low Pressure Steam/MJP on Pipe Covering

Description: TSI, Sampled, Friable

Locations: Joints; West Side of Tank

Quantity: Approximately: 8-14 in. O.D. Low Pressure Steam-Removed 30-6 in. O.D. Low Pressure Steam-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERA RE-INSPECTION SEPTEMBER 1998 PAGE4 OF 21

# **AHERA Re-inspection**

### Material: Domestic Hot Water/MJP on Wrapped Pipe Cover, USA 01

Description: TSI, Sampled, Friable

Locations: Joints; NW Corner Over Stairs

Quantity: Approximately 45-4 in. O.D. Domestic Hot Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 5 OF 21

# **AHERA Re-inspection**

### Material: Domestic Cold Water/MJP on Wrapped Pipe Cover, USA 01

Description: TSI, Sampled, Friable

Locations: Joints; DHW Tank S. Side

Quantity: Approximately 35-4 in. O.D. Domestic Cold Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

**New AHERA Category:** 

### Material: Domestic Cold Water/Wrapped Paper Pipe Cover, USA 01

**Description:** TSI, Sampled, friable

Locations: Piping; DHW Tank SW Corner

Quantity: Approximately 200-4 in. O.D. Domestic Cold Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

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New AHERA Category:

AHERA RE-INSPECTION SEPTEMBER 1998 PAGE7 OF 21

## **AHERA Re-inspection**

#### Material: Domestic Hot Water/Wrapped Paper Pipe Cover

Description: TSI, Sample, Friable

Locations: Piping; NW Corner Over Stairs

Quantity: Approximately 200-4 in. O.D. Domestic Hot Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

Material: Low Pressure Steam/Pipe Covering, USA 01

Description: TSI, Sampled, Friable

Locations: Piping; West Side of Tank

Quantity: Approximately: 35-14 in. O.D. Low Pressure Steam-Removed 250-6 in. O.D. Low Pressure Steam-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

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AHERARE-INSPECTION SEPTEMBER 1998 PAGE9 OF 21

# **AHERA Re-inspection**

Material: Low Pressure Steam/Wrapped Paper Pipe Cover, USA 02

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately: 50-4 in. O.D. 100-6 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

**Previous AHERA Category:** ACBM With Potential for Damage

New AHERA Category: Unchanged

Recommendations: 6 Month Periodic Surveillance

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 10 OF 21

## **AHERA Re-inspection**

Material: Low Pressure Steam/MJP on Wrapped Pipe Cover, USA 03

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately: 30-4 in. O.D. 20-6 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

Recommendations: 6 Month Periodic Surveillance

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 1 1 OF 21

# **AHERA Re-inspection**

### Material: Domestic Hot Water/Wrapped Paper Pipe Cover

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately 225 -4 in. O.D.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 12 OF 21

# **AHERA Re-inspection**

## Material: Domestic Hot Water/MJP on Wrapped Pipe Cover, USA 05

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately 120-4 in. O.D.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

**Recommendations:** 

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AHERA RE-INSPECTION SEPTEMBER 1998 PAGE 13 OF 21

# **AHERA Re-inspection**

## Material: Domestic Cold Water/MJP on Wrapped Pipe Cover

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately 76-4 in. O.D.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 14 OF 21

# **AHERA** Re-inspection

Material: Acoustical/Thermal Plaster, USA 10

Description: Surfacing, Sampled, Friable

Locations: First Floor

Quantity: Approximately 4,960 sq. ft.- Some Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

Recommendations: 6 Month Periodic Surveillance

AHERA RE-INSPECTION SEPTEMBER 1998 PAGE 15 OF 21

# **AHERA Re-inspection**

Material: Acoustical/Thermal Plaster, USA 11

Description: Surfacing, Sampled, Friable

Locations: First Floor

Quantity: Approximately 900 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

Recommendations: 6 Month Periodic Surveillance
AHERARE-INSPECTION SEPTEMBER 1998 PAGE 16 OF 21

## **AHERA Re-inspection**

#### Material: Acoustical/Thermal Plaster

Description: Surfacing, Sampled, Friable

Locations: Basement

Quantity: Approximately 3,300 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 17 OF 21

## **AHERA Re-inspection**

Material: Acoustical/Thermal Plaster, USA 13

Description: Surfacing, Sampled, Friable

Locations: Basement

Quantity: Approximately 700 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 18 OF 21

## **AHERA Re-inspection**

Material: Fireproofing, USA 14

Description: Surfacing, Sampled, Friable

Locations: First Floor

Quantity: Approximately 250 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 19 OF 21

## **AHERA Re-inspection**

Material: HHWS/Wrapped Pipe Cover, USA 50

Description: TSI, Sampled, Friable

Locations: Teacher Work Area & Room 19

Quantity: Approximately: 85-6 in. O.D. 25-4 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 20 OF 21

## **AHERA Re-inspection**

#### Material: HHWS/MJP on Wrapped Pipe Cover, USA 51

Description: TSI, Sampled, Friable

Locations: Teacher Work Area & Room 19

Quantity: Approximately: 12-6 in. O.D. 12-4 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION SEPTEMBER 1998 PAGE 21 OF 21

## **AHERA Re-inspection**

#### Material: Vinyl Floor Tile, USA 99

Description: Miscellaneous, Sampled, Non Friable

Locations: All Floors in Building

Quantity: Approximately 45,000 sq. ft.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged



Three Rivers Environmental, Inc. utilized only inspectors accredited as per the EPA Model Accreditation Plan, 40 CFR 763, Subpart E, Appendix C at a minimum. In addition, all inspectors utilized on projects in states which require additional training, qualifications and licensing, met these qualifications and were so licensed in that state. In addition to the EPA required training, Three Rivers Environmental, Inc. inspectors receive extensive field training and further examination prior to project assignment.

The inspection was conducted by the fallowing Three Rivers Environmental, Inc. personnel:

Name	<u>96-08185</u> Accreditation	Signature
MATT JOHNSON Name	98-08182 Accreditation	Matthe Johnson
SHAWN OLSON Name	<u>98-08184</u> Accreditation	Signature

The Management Plan recommendation was developed by the fallowing Three Rivers Environmental, Inc. personnel:

98-08179 Signature Accreditation Name

Name

Accreditation

Signature

Name

Accreditation

Signature

## **AHERA**

## **Three Year Asbestos Reinspection**

for

## WEST LINN-WILSONVILLE SCHOOL DISTRICT 3JT

#### WILLAMETTE PRIMARY 1403 SE 12th Street West Linn, OR

Project No. 1020-07

May/June 1995

Prepared by



170 E Arlington Gladstone, Oregon 97027 (503) 656-4601



## AHERA Re-inspection Signature page

Three Rivers Environmental utilized only inspectors accredited as per the EPA Model Accreditation Plan, 40 CFR 763, Subpart E, Appendix C at a minimum. In addition, all inspectors utilized on projects in states which require additional training, qualifications and licensing, met these qualifications and were so licensed in that state. In addition to the EPA required training, Three Rivers Environmental inspectors receive extensive field training and further examination prior to project assignment.

The inspection was conducted by the following Three Rivers Environmental personnel:

JERF Shirth Name	PDR-95-7811 Accreditation #	
Name	Accreditation #	Signature
Name	Accreditation #	Signature
The Management Plan recomme Environmental personnel:	endation was developed by th	he following Three Rivers
JERE SHITH Name	PDR-95-7811 Accreditation #	CAAS A Signature
Name	Accreditation #	Signature

Name

Accreditation #

Signature

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AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 1 OF 21

## **AHERA Re-inspection**

#### Material: Boiler/Tank Insulation/Mechanical Insulation, USA 01

Description: TSI, Sampled, Friable

Locations: Tank; DHW Tank South Side

Quantity: Approximately 275 sq. ft. Mechanical Insulation-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

**New AHERA Category:** 

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 2 OF 21

## **AHERA Re-inspection**

#### Material: Boiler/Tank Insulation/Mechanical Insulation, USA 01

Description: TSI, Sampled, Friable

Locations: Boiler; South East Corner

Quantity: Approximately 350 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

**New AHERA Category:** 

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE3 OF 21

## **AHERA Re-inspection**

Material: Low Pressure Steam/MJP on Pipe Covering

**Description:** TSI, Sampled, Friable

Locations: Joints; West Side of Tank

Quantity: Approximately: 8-14 in. O.D. Low Pressure Steam-Removed 30-6 in. O.D. Low Pressure Steam-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

**New AHERA Category:** 

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE4 OF 21

## **AHERA Re-inspection**

#### Material: Domestic Hot Water/MJP on Wrapped Pipe Cover, USA 01

Description: TSI, Sampled, Friable

Locations: Joints; NW Corner Over Stairs

Quantity: Approximately 45-4 in. O.D. Domestic Hot Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 5 OF 21

## **AHERA Re-inspection**

#### Material: Domestic Cold Water/MJP on Wrapped Pipe Cover, USA 01

Description: TSI, Sampled, Friable

Locations: Joints; DHW Tank S. Side

Quantity: Approximately 35-4 in. O.D. Domestic Cold Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE6 OF 21

## **AHERA Re-inspection**

#### Material: Domestic Cold Water/Wrapped Paper Pipe Cover, USA 01

**Description:** TSI, Sampled, friable

Locations: Piping; DHW Tank SW Corner

Quantity: Approximately 200-4 in. O.D. Domestic Cold Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE7 OF 21

## **AHERA Re-inspection**

#### Material: Domestic Hot Water/Wrapped Paper Pipe Cover

Description: TSI, Sample, Friable

Locations: Piping; NW Corner Over Stairs

Quantity: Approximately 200-4 in. O.D. Domestic Hot Water-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE8 OF 21

### **AHERA Re-inspection**

#### Material: Low Pressure Steam/Pipe Covering, USA 01

Description: TSI, Sampled, Friable

Locations: Piping; West Side of Tank

Quantity: Approximately: 35-14 in. O.D. Low Pressure Steam-Removed 250-6 in. O.D. Low Pressure Steam-Removed

#### **Potential For Disturbance:**

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

**New AHERA Category:** 

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE9 OF 21

## **AHERA Re-inspection**

#### Material: Low Pressure Steam/Wrapped Paper Pipe Cover, USA 02

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately: 50-4 in. O.D. 100-6 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 10 OF 21

## **AHERA Re-inspection**

Material: Low Pressure Steam/MJP on Wrapped Pipe Cover, USA 03

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately: 30-4 in. O.D. 20-6 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 1 1 OF 21

## **AHERA Re-inspection**

#### Material: Domestic Hot Water/Wrapped Paper Pipe Cover

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately 225 -4 in. O.D.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

**New AHERA Category:** 

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 12 OF 21

## **AHERA Re-inspection**

#### Material: Domestic Hot Water/MJP on Wrapped Pipe Cover, USA 05

Description: TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately 120-4 in. O.D.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

**Recommendations:** 

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AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 13 OF 21

## **AHERA Re-inspection**

Material: Domestic Cold Water/MJP on Wrapped Pipe Cover

**Description:** TSI, Sampled, Friable

Locations: All Floors in Building

Quantity: Approximately 76-4 in. O.D.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

**New AHERA Category:** 

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 14 OF 21

### **AHERA Re-inspection**

#### Material: Acoustical/Thermal Plaster, USA 10

Description: Surfacing, Sampled, Friable

Locations: First Floor

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Quantity: Approximately 4,960 sq. ft.- Some Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 15 OF 21

## **AHERA Re-inspection**

Material: Acoustical/Thermal Plaster, USA 11

Description: Surfacing, Sampled, Friable

Locations: First Floor

Quantity: Approximately 900 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

WEST LINN SCHOOL DISTRICT 3JT WILLAMETTEPRIMARY, MAINBUILDING PROJ. NO. 1020-07 AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 16 OF 21

## **AHERA Re-inspection**

#### Material: Acoustical/Thermal Plaster

Description: Surfacing, Sampled, Friable

Locations: Basement

Quantity: Approximately 3,300 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

WEST LINN SCHOOL DISTRICT 3JT WILLAMETTEPRIMARY, MAIN BUILDING PROJ. NO. 1020-07 AHERARE-INSPECTION MAY/JUNE, 1995 PAGE 17 OF 21

## **AHERA Re-inspection**

#### Material: Acoustical/Thermal Plaster, USA 13

Description: Surfacing, Sampled, Friable

Locations: Basement

Quantity: Approximately 700 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

**Previous AHERA Category:** ACBM With Potential for Damage

New AHERA Category: Unchanged

WEST LINN SCHOOL DISTRICT 3JT WILLAMETTE PRIMARY, MAIN BUILDING PROJ. NO. 1020-07 AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 18 OF 21

## **AHERA Re-inspection**

#### Material: Fireproofing, USA 14

Description: Surfacing, Sampled, Friable

Locations: First Floor

Quantity: Approximately 250 sq. ft.-Removed

**Potential For Disturbance:** 

Potential for contact: Effect of vibration: Potential for air erosion:

**Overall Condition:** 

Previous AHERA Category: Removed

New AHERA Category:

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 19 OF 21

## **AHERA Re-inspection**

#### Material: HHWS/Wrapped Pipe Cover, USA 50

Description: TSI, Sampled, Friable

Locations: Teacher Work Area & Room 19

Quantity: Approximately: 85-6 in. O.D. 25-4 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

**Previous AHERA Category:** ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 20 OF 21

## **AHERA Re-inspection**

#### Material: HHWS/MJP on Wrapped Pipe Cover, USA 51

Description: TSI, Sampled, Friable

Locations: Teacher Work Area & Room 19

Quantity: Approximately: 12-6 in. O.D. 12-4 in. O.D.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

Previous AHERA Category: ACBM With Potential for Damage

New AHERA Category: Unchanged

AHERARE-INSPECTION MAY/JUNE. 1995 PAGE 21 OF 21

## **AHERA Re-inspection**

#### Material: Vinyl Floor Tile, USA 99

Description: Miscellaneous, Sampled, Non Friable

Locations: All Floors in Building

Quantity: Approximately 45,000 sq. ft.

**Potential For Disturbance:** 

Potential for contact: low Effect of vibration: low Potential for air erosion: low

**Overall Condition:** good

**Previous AHERA Category:** ACBM With Potential for Damage

New AHERA Category: Unchanged

#### RECORDKEEPING (Asbestos Removal Activity/Response Action Recordkeeping)

This section reflects requirements outlined in 40 CFR 763.91 & 763.94 (d) (e) (f) (g) (h)

The following subsections contain this required information

- Flow charts to determine adequate response actions
- Operations & Maintenance (<3 sq. ft. or <3 ln. ft.)
- Small scale/short duration (>3 sq. ft. or 3 ln. ft.) or (>40 ln. ft. or 80 sq. ft.)

**ACTION:** All asbestos-related activities must be recorded.

**TRAINING:** LEA Designate must ensure that program is enacted and maintained.

**FORMS:** Understand how to use all the recordkeeping forms.

The purpose of the record-keeping system is three-fold:

- -- To ensure maximum protection of all persons in the building.
- -- To provide detailed, retrievable records of all events.
- -- To provide the needed records in event of a law suit.

In essence, the AHERA regulations required that everything done with regards to asbestos in a facility must be documented by the facility's owner so that the training and exposure of all persons involved in the work can be documented and the fate of all ACBM can be determined.

The recordkeeping requirements described in 40 CFR 763.94 are quite explicit in regards to the LEA's recordkeeping responsibilities. Although some records are required to be kept up to six years, they may be required beyond six years (as long as 20 to 40 years) in the event of a law suit. Thus, all records should be maintained in a retrievable state for up to 40 years (or let's just say don't ever throw them away).

**Location:** Records must be kept in the administrative offices of both the actual building and the LEA. If these are in the same building, it is advisable that a duplicate set of records should be established in a different location in the event of fire or other damage.

The following activities or occurrences require detailed documentation. A brief description is given here. Refer to the appropriate TAB number in the management Plan for exact AHERA requirements and sample forms for compiling information. Narratives of pertinent record keeping data and tab locations.

Tab 10	<b>Response Actions Selected:</b> records of all preventative measures, major abatement activities.	
Tab 8	<b>Periodic Surveillance:</b> conducted at a minimum of six-month intervals to determine any damage or deterioration of ACBM.	
Tab 9	<b>Reinspection:</b> conducted every three years by an accredited inspector.	
Tab 11	<b>Operations and Maintenance:</b> initial, periodic and emergency cleanings; minor and major fiber release episodes; maintenance procedures for ACBM.	

# RECORDKEEPING (Asbestos Removal Activity/Response Action Recordkeeping)Tab 5Medical Surveillance: annual examination of any<br/>person who will contact ACBM in their work. Keep<br/>copies of examination forms.

Tab 5Training: 2-hour awareness training for all custodial<br/>staff, 14 hours additional for those who will disturb<br/>ACBM; recommended annually.

#### MEMO FOR THE RECORD

Under CFR 40 763.94 and 763.85 (b) (l)

Records of abatement, surveys, inspections and reinspection may be archived and maintained in a centralized location in the administrative office.

All inspection activities and/or asbestos abatement records prior to the May/June 1995 3-year Inspection are stored in a large box in the Asbestos Program Manager's office or some other designated location.

## **OPERATIONS & MAINTENANCE** (<3 Sq. feet or 3 ln. feet)

## SMALL SCALE (>3 sq. feet or 3 ln. feet) (<40 ln. feet or 80 sq. feet)

WEST LINN-WILSONVILLE SCHOOL DISTRICT 3Jt ASBESTOS ABATEMENT PHASE II 1999 AHERA 003 SECTION 01010 005 SCOPE OF WORK 020 PAGE 1 OF 3

#### 1.1 DESCRIPTION OF WORK:

This project involves bids for the removal and disposal of approximately 1,000 sq. ft. of asbestos containing thermal system boiler and tank insulation. approximately 1,910 ln. ft. of asbestos containing thermal system pipe insulation, approximately 13,330 sq. ft. of asbestos containing floor tile and mastic, and approximately 2,584 sq. ft. of asbestos containing windows. The work is located at Cedaroak Park Primary; 4515 S. Cedaroak Park Dr. West Linn, OR 97068, Sunset Primary; 2351 Oxford St. West Linn, OR 97068 and Willamette Primary; 1403 SE 12th St. West Linn, OR 97068. This abatement will be performed using full negative pressure enclosures.

#### BID No. 1: Cedaroak Park Primary

Main Office and Hallway/Corridor;

Remove and dispose of approximately 3,400 sq. ft. of asbestos containing floor tile and mastic with approximately 1,800 sq. ft. mastic covered by carpet. Abatement shall be conducted from June 21 through June 25, 1999.

Teachers Rm., Cafeteria, Chair Storage Rm. and Computer Rm.;

Remove and dispose of approximately 5,400 sq. ft. of asbestos containing floor tile and mastic. Abatement shall be conducted between June 28 and July 16, 1999.

Room No. 1 and 2;

Remove and dispose of approximately 2,400 sq. ft. of asbestos containing floor tile and mastic covered by floor tile and carpet. Abatement shall be conducted between June 28 and July 16, 1999.

Boiler Rm. and Tunnels;

Remove and dispose of approximately 150 sq. ft. of asbestos thermal system insulation from the hot water tank. Abatement shall be conducted between March 29 and April 2, 1999.

Remove and dispose of approximately 170 ln. ft. of asbestos containing thermal system insulation from the heat exchanger piping and assorted locations in the tunnel. Abatement shall be conducted between March 29 and April 2, 1999.

#### BID No. 2: Sunset Primary

Lower Level Condensate Return Unit;

Remove and dispose of approximately 150 sq. ft. of asbestos thermal system insulation from hot water tank. Abatement shall be conducted between April 5 and April 9, 1999.

Remove and dispose of approximately 150 ln. ft. of asbestos containing thermal system pipe insulation. Abatement shall be conducted between April 5 and April 9, 1999.

Attic;

Remove and dispose of approximately 90 ln. ft. of asbestos containing thermal system pipe insulation. Abatement shall be conducted between April 5 and April 9, 1999.

Boiler Rm. and Tunnel;

Remove and dispose of approximately 700 sq. ft. of asbestos containing thermal system insulation from the boilers and tank. Abatement shall be conducted between April 12 and April 16, 1999.

Remove and dispose of approximately 1,000 ln. ft. of thermal system pipe insulation. Abatement shall be conducted between April 12 and April 16, 1999.

Lower Level Cafeteria and Class Rm.s;

Remove and dispose of approximately 500 ln. ft. of asbestos containing thermal system pipe insulation. Abatement shall be conducted between June 28 and July 16, 1999.

Rm.s 9 & 10 and Stage Area;

Remove and dispose of approximately 2,130 sq. ft. of asbestos containing floor tile and mastic with approximately 1,845 sq. ft. covered with carpet. Abatement shall be conducted between June 28 and July 16. 1999.

Old Building, Main Level and Lower Level;

Remove and dispose of approximately 9; 20'x8', 7; 20'x4', 1; 13'x8', 1; 16'x6', 1; 8'x8' and 1; 8'x4' asbestos containing windows. The asbestos is in the glazing and the abatement includes the window casings. (approximately 2,584 sq. ft.). Abatement shall be conducted between June 28 and July 30, 1999.

#### **BID No. 3: Willamette Primary**

Lower Level, Mechanical Rm.;

Remove and dispose of approximately 40 thermal system insulation hard fittings from the fiberglass insulated pipes. Abatement shall be conducted between June 21 and June 25, 1999

Lower Level, Girls Restroom, Rm. #19, Speech Rm. and Storage Rm.;

Remove and dispose of approximately 180 ln. ft of asbestos containing thermal system pipe insulation. Abatement shall be conducted between June 28 and July 2, 1999.

Tunnel accesses in Rm.s 15 & 16;

Remove and dispose of approximately 50 ln. ft. of asbestos containing thermal system pipe insulation and debris. Abatement shall be conducted between June 28 and July 2, 1999.
SECTION 01010 SCOPE OF WORK PAGE 3 OF 3

#### **ADDITIVE ALTERNATE BID NO. 1:**

Per-Unit Cost for the removal and disposal of Thermal System Insulation: cost/sq. ft.

Per-Unit Cost for the removal and disposal of Thermal System Insulation: cost/In. ft.

Per-Unit Cost for the removal and disposal of additional Floor Tile and Mastic: cost/sq. ft.

#### 1.2 WORK SEQUENCE:

Activities shall be coordinated with the Owner's Representative.

#### 2.1 GENERAL REQUIREMENTS

1. The Contractor shall provide personnel air monitoring for OSHA compliance. The Owner shall provide air monitoring for "Areas During", and Clearance testing as required. The Contractor shall notify the Owner 24 hours in advance of the time that test services are needed to allow adequate scheduling of equipment and personnel.

2. If the Contractor fails to meet final clearance standards specified, the Contractor shall reclean the work area to meet such standards. Costs incurred by the Owner for retesting of final clearances shall be deducted from the sums originally due the Contractor.

3. Contractors shall verify to their satisfaction the quantities of material cited and nature of the work described in these specifications. Contractors shall not rely upon the contract documents for any quantities.

4. The intent of the Owner is to have the Contractor remove all asbestos-containing materials as described above.

5. The decon and loadout facilities shall be constructed inside the building. So the doors to the abatement area can be closed and locked. All exposed areas of the containment shall be hard side to prevent tampering with a minimum of 1/2" plywood.

6. The Contractor will file all notifications with DEQ.

7. The Contractor shall be responsible for the demolition to access materials to be abated such as removing carpets, soft wall and ceilings.

#### **END OF SECTION**

# **FULL SCALE** (>40 In. feet or 80 sq. feet)

Job L	ocation: WILLAMETTE CRIMANY Floor: NA
Projec	t: 1403 SE 1214 ST WEST LINN OR
For pi	pe provide: Total linear feet and pipe size
For ot	her materials provide: Total square feet: Toos bile
Туре	of ACM: CYISOTILS
Start I	Date: $8/18/98$ Completion Date: $8/24/96$
Meth	ods to Control Emissions: WET WETLOP'S, WOOKpractices (ENgine
Give	name of Contractor of Subcontractor:
	Name: Key STONE CONTRACTING
	Address: 417 NW 209Th Bitgersfrield et.
	City: Ripiefueld State UDA 7in: 98432
	Phone: 3/0-987-0868 Contract person: John 1244 112501
NT	Filming Laber Tiller Ruisers Supersupertal DMC
Name	or womening Lab: <u>I FILE MOBELS CAUGULATING GIT</u>
Antic	pated Disposal Site: <u><u>HIIISDURD</u> <u>NUL FILL</u> <u>OBL</u></u>
Super	visor in charge of job: <u>LAIL LEAN</u> .
Projec	t Manager: MAIL JONNSON LAG.
	Cert. #:         Exp. Date:         Phone:
Asbes	tos Program Manager: LEA JOB SIMUTONS
	Training date: Exp. date: Phone:
	O&M (less than 3 ln. 3 sq. ft.)
	Small scale
Ø	Large scale

Attach pre-abatement and post-abatement air sample results

THE THE P.O. Bo Phone: (503)	IREE RIV         VIRONME         x 216 Gladstone         557-2396 FAX         e:	×/~ ERS NTA ., OR. 9 :: (503)	L 7027 557-3025	SAMPLE TYPE         ASDESTOS         PLM (Bulk)       PLM         D PCM (Air)       Sample Group         MERA       Rush         PCM (Air)       Sample Group         MERA       Rush         D PCM (Air)       Sample Group         MERA       Rush         D PCM (Air)       Sample Group         MERA       Rush         D PCM (Air)       Other (specify         LEAD       Other (specify         A A Flame (sir)       Other (specify         TCLP       EPA 200/500 Serifes         (Drinking Water)       TL	TURNAROUN TURNAROUN ard (5 day) y (3 day) (24 hour) y	D TRE Client N P.O. Number: Project Number Date Sampled Date Submitte Special Instructions	umber: $1020$ er: $1020 - 2$ : $8/21/96$ : $8/21/96$	Pag	
Sample ID	Date	Positive Stop		Sample Description	Sa	uple Location	Quantity (SF/LF)	Volume	Result
(1) MJ480546 (2) MJ480547 (3) MJ480548 (4) MJ980549 (5) MJ980549 (5) MJ980530	8/21/9B 11 // 11 //		<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	TEM CLGARAHLE	N. Енф S. Енф С. Енф С. Енф	OF HALLWAY OF HALLWAY OF HALLWAY OF HALLWAY		1350	
		<u> </u>					<u> </u>	l	
Matt	Sampled By: 19	Sign)		Relinquished By: (Sign) Di Matthe John 8/2	nte Time	Recieved I <u>A</u> <u>M</u>	By: (Sign)	Datc 2 4 RECU	Time <u>10:2</u> 59

### EMSL Analytical, Inc.

Attn.: **Three Rivers Environmental** P.O. Box 216 Gladstone, OR 97027

.

Robert Newman

Analyst

1720 S. Amphlett Blvd., Suite 130 San Mateo, CA 94402 Phone: (650) 570-5401 Fax: (650) 570-5402

Monday, August 24, 1998

Ref Number: CA985668

#### Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule. (AHERA)

Project: 1020-24

VOLUME (liters)	ASBESTOS TYPE(S)	# STRUC: < 5μ ≥ 5μ	TURES NONASB	AREA ANALYZED (mm²)	CONCENTR ASBESTOS S AS/mm²	RATION OF TRUCTURES AS/cc	ANALYTICAL SENSITIVITY (AS/cc)
1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
1350.00	None Detected	· ·	0	0.0645	<15.5039	<0.0044	0.0044
1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
	VOLUME (liters) 1350.00 1350.00 1350.00 1350.00	VOLUMEASBESTOS(liters)TYPE(S)1350.00None Detected1350.00None Detected1350.00None Detected1350.00None Detected1350.00None Detected1350.00None Detected	VOLUMEASBESTOS# STRUC: $< 5\mu \ge 5\mu$ (liters)TYPE(S) $< 5\mu \ge 5\mu$ 1350.00None Detected1350.00None Detected1350.00None Detected1350.00None Detected1350.00None Detected1350.00None Detected	VOLUMEASBESTOS $\#$ STRUCTURES $< 5\mu \ge 5\mu$ NONASB1350.00None Detected01350.00None Detected01350.00None Detected01350.00None Detected01350.00None Detected01350.00None Detected01350.00None Detected01350.00None Detected01350.00None Detected01350.00None Detected0	VOLUME (liters)ASBESTOS TYPE(S)# STRUCTURES $< 5\mu \ge 5\mu$ NONASBAREA ANALYZED (mm²)1350.00None Detected00.06451350.00None Detected00.06451350.00None Detected00.06451350.00None Detected00.06451350.00None Detected00.06451350.00None Detected00.06451350.00None Detected00.06451350.00None Detected00.06451350.00None Detected00.0645	VOLUMEASBESTOS# STRUCTURESAREA ANALYZEDASBESTOS ST (liters)1350.00None Detected00.0645<15.5039	CONCENTRATION OF CONCENTRATION OF ASBESTOS # STRUCTURES ASBESTOS TYPE(S) < $5\mu \ge 5\mu$ NONASBAREA ANALYZED (mm²)ASBESTOS STRUCTURES ASBESTOS TRUCTURES AS/mm²1350.00None Detected00.0645<15.5039

Λ Approved

Signatory

1

Disclaimers: The laboratory is not responsible for fibers counted in fibers/mm² or fibers/cc, which are dependent on volume collected by non-laboratory personnel. This report may not be duplicated in part without written permission by EMSL Analytical, Inc. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above.

Accredited for NVLAP PLM/TEM #101048-3, E-Lap #1620

## EMSL Analytical, Inc.

Attn.: **Three Rivers Environmental** P.O. Box 216 Gladstone, OR 97027 1720 S. Amphlett Blvd., Suite 130 San Mateo, CA 94402 Phone: (650) 570-5401 Fax: (650) 570-540

Monday, August 24, 1998

Ref Number: CA985668

#### Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule. (AHERA)

Project: 1020-24

SAMPI F.	VOLUME	ASBESTOS	# STRU	CTURES	AREA ANALYZED	CONCENTI ASBESTOS S	RATION OF TRUCTURES	ANALYTICAL SENSITIVITY
ID	(liters)	TYPE(S)	< 5µ ≥ 5µ	NONASB	(mm²)	AS/mm ²	AS/cc	(AS/cc)
(1) MJ9880546	1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
2) MJ980547	1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
(3) MJ980548	1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
(4) MJ980549	1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
(5) MJ980550	1350.00	None Detected		0	0.0645	<15.5039	<0.0044	0.0044
Comments: For "N	one Detected"	samples, the numb	er under AS/cc	is equal to the	analytical sensitivity.			
Rob	ert Newman	1				ŚĆ	1	
	Analyst						Appro Signat	ved
ΛI.	Disclaime	ers: The laboratory is not non-laboratory pers must not be used to samples reported al Accredited for NVLA	responsible for fiber onnel. This report m claim product endor pove. NP PLM/TEM #10104	s counted in fibers/n ay not be duplicated sement by NVLAP o i8-3, E-Lap #1620	nm² or fibers/cc, which are depend d in part without written permission or any agency of the U.S. Governm	ent on volume collecte by EMSL Analytical, Ir sent. This report relate	nd by nc. This report is only to the	1

THE ENV P.O. Bo Phone: (503) Attention: Company Nam Mailing Addres PH:(	IREE RIV           IREE RIV           VIRONME           x 216 Gladstone           557-2396 FAX           e:	SAF ~ ERS NTA , OR. 9 : (503)	L 7027 557-3025	CHAIN OF C       57         SAMPLE TYPE       SAMPLE TYPE         ASBESTOS       □ PLM         □ PLM (Bulk)       □ PLM         □ PCN1 (Air)       Sample Group         ▶ TEM (Air)       Positive stop         □ AA Flame (air)       □ Other (specify)         □ AA Flame (print. Wipe)       □ TCLP         □ EPA 200/500 Series (Didishing Water)       □ Differ (specify)	LINAROUND (JRNAROUND (5 day) (3 day) (24 hour) LAROUND LAROUND	TRE Client Nu P.O. Number: Project Number Date Sampled: Date Submitter Special Instructions	$\frac{1020 - 2}{8/21/46}$ $\frac{8/21/46}{4}$	Page 4	
Sample ID	Date	Positive Stop		Sample Description	Samp	le Location	Quantity (SF/LF)	Volume	Result
(1) MJ480546 (2) MJ480547 (3) MJ480548 (4) MJ480544 (5) MJ480550	8/21/98 11 // 11 //		<u>Α</u> Η Ε RA ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	TEM CLEARAHICE	<u>N. ено</u> от <u>S. ено о</u> <u>W. ено о</u> <u>E. ено о</u>	P HALWAY F HALWAY OF HALWAY OF HALWAY		1350	
Matt	Sampled By: 15	Sign)		Relinquished By: (Sigp) Data Matthe John 8/21	· Time	Recieved I R Mill	iy: (Sign)	Date 2 4 RECU	Time 10:02:4

LAB:

### EMSL Analytical, Inc.

Attn.: **Three Rivers Environmental** P.O. Box 216 Gladstone, OR 97027 1720 S. Amphlett Blvd., Suite 130 San Mateo, CA 94402 Phone: (650) 570-5401 Fax: (650) 570-5402

Monday, August 24, 1998

Ref Number: CA985668

#### Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule. (AHERA)

Project: 1020-24

SAMPLE ID	VOLUME (liters)	ASBESTOS TYPE(S)	# < 5μ	STRUC ≥ 5µ	CTURES NONASB	AREA ANALYZED (mm²)	CONCENTI ASBESTOS S AS/mm²	ATION OF TRUCTURES AS/cc	ANALYTICAL SENSITIVITY (AS/ce)
(1) MJ9880546	1350.00	None Detected			0	0.0645	<15.5039	<0.0044	0.0044
(2) MJ980547	1350.00	None Detected			0	0.0645	<15.5039	<0.0044	0.0044
(3) MJ980548	1350.00	None Detected			0	0.0645	<15.5039	<0.0044	0.0044
(4) MJ980549	1350.00	None Detected			0	0.0645	<15.5039	<0.0044	0.0044
(5) MJ980550	1350.00	None Detected	: : : :		0	0.0645	<15 5039	<0.0044	0.0044
(-)			:		:	0.0645	<15.5039	<b>\U.UU44</b>	0.0044

Comments: For "None Detected" samples, the number under AS/cc is equal to the analytical sensitivity.

Robert Newman

Analyst

٨ Approved Signatory

1

Disclaimers: The laboratory is not responsible for fibers counted in fibers/mm² or fibers/cc, which are dependent on volume collected by non-laboratory personnel. This report may not be duplicated in part without written permission by EMSL Analytical, Inc. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above.

Accredited for NVLAP PLM/TEM #101048-3, E-Lap #1620

THE THE ENV P.O. Bo Phone: (503) Attention: Company Nam Mailing Addres PH.(	IREE RIV	ERS NTA OR.9 : (503)	<b>L</b> 7027 557-3025	CHAIN OF         SAMPLE TYPE         ASBESTOS         PLM (Bulk)         PLM (Bulk)         PLM (Air)         Sample Group         M TEM (Air)         LEAD         AA Flame (air)         TCLP         EPA 200/500 Series         (Drinking Water)	C	CODY RNAROUND (5 day) (3 day) (24 hour)	TRE Client Nu P.O. Number: _ Project Numbe Date Sampled: Date Submitted Special Instructions:	mber: $1020$ r: $1020 - 2$ 8/21/46 1: $8/21/46$	Pag	
Sample ID	Date	Positive Stop		Sample Description	÷	Sanı	ple Location	Quantity (SF/LF)	Volume	Result
(1) MJ480546 (2) MJ480547 (3) MJ980548 (4) MJ980549 (5) MJ980549 (5) MJ980530	8/21/98 ¹¹ ¹¹ ¹¹ ¹¹ ¹² ¹¹ ¹³ ¹¹ ¹⁴ ¹⁵ ¹¹ ¹⁶ ¹¹ ¹⁷ ¹¹ ¹⁷ ¹¹ ¹⁸ ¹¹ ¹⁹ ¹¹ ¹⁰ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹ ¹¹		<u>Анера</u> ````````````````````````````````````	TEM CLGARAHLE		<u>N. енф</u> <u>S. енф</u> <u>W. енф</u> <u>е. енф</u>	P HALIWAY F HALIWAY OF HALLWAY OF HALLWAY		1350	
Math	Sampled By: 18	Sign)		Relinquished By: (Sigo) Matthe (John	Date - <b>B/21</b> /	Time	Recieved B R. MICL	y: (Sign)	Date 2 4 RECD	Time 10:02

			 2	1	·	1
Matthe John	Matthe John-	8/21/10	A Millell MIG 2	A RECŪ	10:00	4.
			LAB:			

PROJ. No: 1020-24 DATE: 8/20/98 Pg. 1 of

See air monitoring reports of this date 🔀

#### ASBESTOS PROJECT CHECKLIST

RIVERS

ENTYL

PROJECT NAME: WILLSMETTE PR	IM 24-1	PROJ. MGR: MATTHEW JOHNSON	
1403 SE 12TH ST WEST L	INU OR	ON SITE: 07:00 OFF SITE: 14:0	0
OWNER PROVIDED ON-SITE CONTA NAME: Joi Simmons	СТ:	CONTRACTOR: KEYSTONE CONTRACT: SUPERVISOR: DALE DEAM	EN 6
Intent to remove ACM on site and comple	ete? <u>No</u>	PERSONNEL & CORRE METHODS	ECTION UIRED
Disposal site: 411151020 (UVIU) AREA ISOLATION	GII CORRECTION REQUIRED NO YES	WORKER PROTECTION ADEQUATE: () PERSONAL AIR MONITORS USED: () PROTECTIVE CLOTHING: () PERSONNEL USING DECON: () EQUIP. MAINTAINED PROPERLY: () WETTING, PRIOR & DURING: () EXCESSIVE DEBRIS: ()	() () () () () () ()
BARRICADES & SIGNS: AIRLOCKS: COVERINGS ON FLOORS & WALLS: NON-MOVABLE EQUIP. COVERED: ALL OPENINGS SEALED: AIR HANDLING EQUIP. OFF/SEALEI	(y () (y () (y () (y () () (y () ); (y ()	BAGGING OPERATION: NEGATIVE AIR ADEQUATE: DECON ADEQUATE: CLEAN ROOM ADEQUATE: SHOWER FILTERED AND ADEQUATE: Respiratory Protection in use: 1/2 Face (f Full Face () PAPR () Type C ()	() () () ()

#### PROJECT MANAGEMENT LOG

SIGNATURE: Matthe for

P.O. Box 216 Gladstone, OR 97027 (503) 557-2396 Fax 557-3025

ASBESTOS ABATEMENT SUMMARY Project #: <u>1020-25</u>						
Job Location: WillAMETTE PTIMANY Floor: Project: 1403 SE 12th STRAFT WEST Lind OR 97068						
For pipe provide: Total linear feet and pipe size						
For other materials provide: Total square feet:						
Type of ACM: CAR PET REMOUNI / tile						
Start Date: $8 - 19 - 98$ Completion Date: $8 - 36 - 98$						
Methods to Control Emissions: WET METHOD'S WOOK PRICES / ENGINEERING						
Give name of Contractor of Subcontractor:						
Name: Keystones Contraction inc						
Address: 417 NW 209Th RiDerEfield						
City: RIDIE FIELD State: WA Zip: 98432						
Phone: 360-887-0868 Contact person: John UANDESSum						
Name of Monitoring Lab: Three Rivers Environmental/EMSL.						
Anticipated Disposal Site: Hill Jouro LAND Fill. OR						
Supervisor in charge of job:						
Project Manager: MATT Johnson -TRE						
Cert. #: Exp. Date: Phone: <u>557-239</u> 6						
Asbestos Program Manager:						
Training date: Exp. date: Phone:						
O&M (less than 3 ln. 3 sq. ft.)						
Small scale						
Large scale						

.

,

Attach pre-abatement and post-abatement air sample results



CLIENT: West Linn School District

TRE JOB NO: 1020-25

PURCHASE ORDER NO: Verbal

ENVIRONMENTAL, In ATTN: Joe Simmons

CONTRACTOR: Keystone Contracting, IncREPORT NO: 1

PROJECT: Willamette Primary 1403 S.E. 12th Street West Linn, OR 97068 PAGE NO: 1 OF 2

	Summal DNL		
sample 101 vo: 1	sampenziso. 2	Sampendixo 3	SampleiDNo: 4
LaboratoryNo: MJ98-0546	LaboratoryNox MJ98-0547	Laboratory.No: MJ98-0548	Laboratory.No: MJ98-0549
Sample Location:	Sample Location:	SampleLocation	Sample Location:
N. end of ground	S. end of ground	W. end of ground	E. end of ground
floor N/S hallway	floor N/S hallway	floor E/W hallway	floor E/W hallway
С	C	С	С
WorkPerformed	WorkPerformed	WorkPeriamed	WorkPerformed
N/A	N/A	N/A	N/A
DateSampled 08-21-98	DateSampled 08-21-98	DateSampled 08-21-98	DateSampled 08-21-98
Sampledby	Sampledby	Sampledby	Sampledby
MDJ	MDJ	MDJ	MDJ
PumpNa HV-57	PumpNa HV-05	Pumpiwa HV-02	PumpNo: HV-04
Start Time: 10:00	StartTime: 10:00	StartTime: 10:00	StartTime: 10:00
StopTime 12:15	StopTime 12:15	StopTime 12:15	Stop Time: 12:15
MinutesSamplect 135	MinutesSampled: 135	MinutesSamplect 135	MinutesSampled: 135
Start Flow Rate: 10.0LPM	Start Flow Rate: 10.0 LPM	StartFlowRate: 10.0LPM	Start Flow Rate: 10.0LPM
Stop Flow Rate: 10.0 LPM	Stop Flow Rate: 10.0 LPM	Stop Flow Rate: 10.0 LPM	Stop Flow Rate: 10.0 LPM
AverageFlowRate: 10.0LPM	AverageFlowRate: 10.0LPM	AverageFlowRate: 10.0LPM	Average Flow Rate: 10.0 LPM
Volume 1350 L	Volume: 1350 L	Volume 1350 L	Volume 1350 L
Date Analyzed 08-24-98	Date Analyzed 08-24-98	Date Analyzed 08-24-98	Date Analyzect 08-24-98
Type of Asbestos: NSD	Type of Asbestos: NSD	Type of Asbestos NSD	Typeof Asbestos: NSD
Structures Density: <15.5039	Structures Density: <15.5039 (structso, mm)	StructuresDensity: <15.5039 (struc'sq.mm.)	StructuresDensity: <15.5039 (struc/sq.mm)
StructureCon: <0.0044	StructureCon: <0.0044	StructureCon: <0.0044	StructureCon: <0.0044
AsbestosStructures: 0	Asbestos Structures: 0	AsbestosStructures: 0	Asbestos Structures 0

Abbreviations

TEM-Transmission Electron Microscopy, AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Passonal sample from breathing zone, EL-Excursion limit, NAE-Negative air exhaust, PA-post abatement areas sample, BC-Background, LOQ-Limitol Quantification, LOD-Limitol Detection, NSD-No Assessos Detected

Comments:

Analyzedby:

EMSL

E C	<b>TEM Air</b>
at the share	CLIENT: West Linn S
THREE RIVERS	
ENVIRONMENTA	L, IngTTN: Joe Simmons

CLIENT: West Linn School District

TRE JOB NO: 1020-25

PURCHASE ORDER NO: Verbal

CONTRACTOR: Keystone Contracting, IncREPORT NO: 1

**PROJECT:** Willamette Primary 1403 S.E. 12th Street West Linn, OR 97068 PAGE NO: 2 OF 2

SampleIDNo: SampleIDNo: SampleiDNo: SampleIDNo: 5 Laboratory No: Laboratory No. MJ98-0550 LaboratoryNo: Laboratory No: Sample Location: Sample Location: SampleLocation SampleLocation Center of staff breakroom С WorkPerformed Work/enormed WorkPerformed WorkPerformed N/A DateSampled DateSampled DateSamplet DateSampled 08-21-98 Sampledby: MDJ Sampled by: Sampledby: Sampledby: PumpiNo. PumpNo: PumpNo. PumpNot HV-07 Start Time: Start Time: StartTime: Start Time: 10:00 StopTime 12:15 Stop Time: Stop Time: Stop Time: MinutesSampled 135 MinutesSampled MinutesSampled Minutes Sampled Start Flow Rate: Start Flow Rate: Start Flow Rate: Start Flow Rate: 10.0LPM LPM LPM LPM Stop Flow Rate: Stop Flow Rate: Stop Flow Rate: Stop Flow Rate: 10.0LPM LPM LPM LPM AverageFlowRate: **AverageFlowRate** AverageFlowRate: AverageFlowRate: 10.0LPM LPM LPM LPM Volume Volume Volume Volume 1350 L L L L Date.Analyzect Date Analyzed Date Analyzed **DateAnalyzed** 08-24-98 Typeof Asbestos Type of Asbestos Typeof Asbestos: Type of Asbestos: NSD Structures Density: <15.5039 Structures Density: Structures Density: Structures Density: (strucsa.mm.) (sinuc/sq.mm.) (struc/sa.mm.) StructureCon: StructureCon: StructureCon: StructureCon: < 0.0044(struc/ocair) (struc'ocair) (STUC/OCOIF) (struc/ocair) AsbestosStructures: 0 Asbestos Structures: Asbestos Structures Asbestos Structures:

Abbreviations:

TEM-Transmission Electron Microscopy, AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative zirex haust, PA-post abutement area sample, BG-Background, LOQ-Limitor Quantification LOD-Limitor Detection, NSD-No Asbestos Detected

Comments:

Anaiyzedby:

**EMSL** 

ASBESTOS ABATEMENT SUMMARY Project #: <u>1020-33</u>
Job Location: WILLTMETTE PRIMANY Floor: EASEMENT
Project: 1403 SE 12th STREET WEST Linn
OB 97068 - DIFT CRAWISPACE CLAW up
For pipe provide: Total linear feet and pipe size
For other materials provide: Total square feet: CET CRAWLOPACE CLEAN WA
Type of ACM:
Start Date: $12 - 11 - 98$ Completion Date: $12 - 11 - 98$
Methods to Control Emissions: WET METHOD'S, WORK PRACTICES COSTOOLS
Give name of Contractor of Subcontractor:
Name: KEXSTENE CONTRACTION INC
Address: 417 NW 209Th Ridge Field
City: BiDerefiel State: Ust Zip: 98432
Phone: 360-487-0668 Contact person: John VANUESSur
Name of Monitoring Lab: Three River's Environmental
Anticipated Disposal Site: <u>HILSBURO LAND HIL OR</u>
Supervisor in charge of job: PALE Dero -
Project Manager: <u>5</u> OISEN
Cert. #: <u>960340N</u> Exp. Date: <u>NA</u> Phone: <u>557-2396</u>
Asbestos Program Manager: JOE Simmon S
Training date: Exp. date: Phone:
O&M (less than 3 ln. 3 sq. ft.)
Small scale
Large scale

Attach pre-abatement and post-abatement air sample results



CLIENT: West Linn-Wilsonville School DistrictTRE JOB NO: 1020-33ATTN: Joe SimmonsP.O. NO: VerbalCONTRACTOR: Keystone Contracting, Inc.REPORT NO: 1

**PROJECT:** Willamette Primary Dirt Crawlspace

PAGE NO: 1 OF 3

Methodol analysis: NIOSH7400 Limit of Detection: 5.5Fibers; Limit of Quantification: 10.0fibers; Specification Range: 100~f/mm2<1300 SampleIDNo: SampleIDNo. SampleIDNo: SampleIDNo: 2 4 3 LaboratoryNo: SO98-1378 LaboratoryNo: SO98-1379 LaboratoryNo: SO98-1380 LaboratoryNo: SO98-1381 Sample Location: Sample Location: Sample Location: Sample Location: 25' from basement, men's 15' S. of room #19, 30' from main office, Middle of Mr. Silverman's basement floor restroom south of door room AP AP AP AP WorkPerformed WorkPerformed WorkPerformed WorkPerformed N/A N/A N/A N/A DateSampled 11/30/98 DateSampled DateSampled DateSampled 11/30/98 11/30/98 11/30/98 Sampled by: Sampled by: Sampled by: Sampled by: S. Olson S. Olson S. Olson S. Olson PumpNo PumpNo PumpNa PumpNa HV-03 HV-05 HV-06 HV-03 StartTime StartTime: Start Time: Start Time: 15:15 15:20 15:25 17:30 Stop Time: Stop Time: Stop Time: Stop Time: 17:15 17:20 17:25 19:30 MinutesSampled MinutesSampled: MinutesSampled MinutesSampled: 120 120120 120 Start How Rate (LPM) Start How Rate: (LPM) Start How Rate (LPM) Start Flow Rate (LPM) 10 10 10 10 StopFlowRate (LPM) 10 StopFlowRate (LPM) 10 StopFlowRate (LPM) 10 StopFlowRate (LPM) 10 Average How Rate: (LPM) Average How Rate (LPM) Average How Rate (LPM) AverageFlowRate (LPM) 10 10 10 10 Volume Volume Volume 1200 Volume 1200 12001200 L L L L Date:Analyzect DateAnalyzet Date:Analyzed Date Analyzed 11/30/98 11/30/98 11/30/98 11/30/98 GraticuleFieldArear GraticuleFieldArea GraticuleFieldArea GraticuleFieldAter 0.00817 0.00817 0.00817 0.00817 Total Fibers: Total Fibers: Total Fibers Total Fibers: 4.5/100 5.5/100 6/100 3/100 Coefficient of Variation Coefficient of Variation: Coefficient of Variation Coefficient of Variation LOD LOD LOO LOO Fibers/cc: Fibers/cc: Fibers/cc: Fibers/cc: <0.0039 f/cc <0.0039 f/cc <0.0039f/cc <0.0039 f/cc

Abbreviations:

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airex haust, P.A-post abatement areasample, BG-Background, LCQ-Limit of Quantification, LOD-Limit of Detection

Comments <Sample calculated at Limit of Quantification

Analyzedby: Shawn Olson



CLIENT: West Linn-Wilsonville School District TRE .IOB NO: 1020-33 Joe Simmons ATTN: P.O. NO: Verbal CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 1 **PROJECT:** Willamette Primary PAGE NO: 2 OF 3

Dirt Crawlspace

Methodofanalysis NIOSH7400 Limitof Detection: 5.5 Fibers, Limit of Quantification: 10.0 fibers, Specification Range: 100-cf/mm2<1300 SampleIDNo: SampleIDNo: SampleIDNo: SampleIDNo: 8 5 6 LaboratoryNo: SO98-1382 LaboratoryNo: SO98-1383 LaboratoryNo. SO98-1384 LaboratoryNo: SO98-1385 Sample Location: Sample Location: Sample Location: Sample Location: Middle of main office 15' S. of rm. #6 Carlos Mendoza Carlos Mendoza 610-28-9238 610-28-9238 AP AP EL. P WorkPerformed WorkPerformed WorkPerformed WorkPerformed N/A N/A Dirt crawlspace Dirt crawlspace 1/2 face 1/2 face DateSampled DateSampled DateSampled DateSampled 11/30/98 11/30/98 11/30/98 11/30/98 Sampled by: Sampled by: Sampled by: Sampled by: S. Olson S. Olson S. Olson S. Olson PumpNa **PumpNa** PumpNa PumpNa HV-06 LV-01 LV-01 HV-05 StartTime Start Time: Start Time: Start Time: 17:50 17:55 22:30 23:05 Stop Time: 20:50 Stop Time: 20:55 Stop Time: 23:00 Stop Time: 24:30 MinutesSampled Minutes Sampled MinutesSampled MinutesSampled 120 120 30 35 Start Flow Rate (LPM) Start How Rate (LPM) Start How Rate: (LPM) Start How Rate: (LPM) 2 2 10 10 StopFlowRate (LPM) StopFlowRate (LPM) Stop Flow Rate (LPM) 2 StopFlowRate (LPM) 10 10 2 Average How Rate (LPM) Average How Rate (LPM) Average How Rate (LPM) Average How Rate (LPM) 2 2 10 10 Volume: Volume Volume Volume 70 1200 60 L 1200 L L L Date Analyzed DateAnalyzed 11/30/98 Date.Analyzed DateAnalyzed 11/30/98 11/30/98 11/30/98 GanauleFieldArea GanaieFieldArea GraticuleFieldArea GaticuleFieldArea 0.00817 0.00817 0.00817 0.00817 Total Fibers. Total Fibers Total Fibers Total Fibers 9/100 19/100 4/100 4/100 Coefficient of Variation: Coefficient of Variation: Coefficient of Variation Coefficient of Variation: LOD LOD LOO 0.49 Fibers/cc: Fibers/cc: Fibers/cc: Fibers/cc. f/cc <0.0039 f/cc <0.0039 f/cc f/cc 0.13 0.071AP-Areasample priortoabatement, AD-Areasampleduring abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, Abbreviations

NAE-Negative airexhaust, PA-post abatement areas simple, BG-Background, LOQ-LimitofQuantification, LOD-LimitofDetection

<Sample calculated at Limit of Quantification Comments

Analyzedby: Shawn Olson



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-33

PURCHASE ORDER NO: Verbal

CONTRACTOR: Keystone Contracting, Inc REPORT NO: 1

**PROJECT:** Willamette Primary 1403 S.E. 12th Street West Linn, OR 97068 PAGE NO: 1 OF 2

SampleIDNo: 1 SampleIDNo: 2		SampleIDNo: 3	SampleIDNox 4
LaboratoryNa SO98-1524	LaboratoryNo SO98-1525	LaboratoryNo: SO98-1526	LaboratoryNox SO98-1527
SampleLocation N.W. corner of dirt crawlspace C		Sample Location N.E. corner of dirt crawlspace C	SampleLocation S.E. corner of dirt cawlspace C
WorkPerformed: N/A	WorkPerformed N/A	WorkPerformed N/A	WorkParlormed N/A
DateSampled 12-11-98	DateSampled 12-11-98	DateSampled 12-11-98	DateSampled 12-11-98
Sampledby: S. Olson	Sampled by: S. Olson	Sampledby: S. Olson	Sampledby: S. Olson
PumpNa HV-95	PumpNa HV-98	PumpNa HV-01	PumpNa HV-06
StartTime: 11:40	StartTime: 11:40	StartTime: 11:40	StartTime 11:40
Stop Time: 13:40	Stop Time: 13:40	StopTime: 13:40	StopTime: 13:40
MinutesSampled: 120	MinutesSampled 120	MinutesSampled: 120	MinutesSamplect 120
Start Flow Rate: 10.0LPM	Start Flow Rate: 10.0 LPM	Start Flow Rate: 10.0 LPM	StartFlowRate: 10.0LPM
StopFlowRate: 10.0LPM	StopFlow Rate: 10.0 LPM	StopFlow Rate 10.0 LPM	StopFlow Rate: 10.0LPM
AverageFlowRate: 10.0LPM	AverageFlowRate 10.0LPM	AverageFlowRate: 10.0LPM	AverageFlowRate: 10.0LPM
Volume 1200 L	Volume 1200 L	Volume 1200 L	Volume: 1200 L
Date Analyzect 12-12-98	Date Analyzedt 12-12-98	Date Analyzed 12-12-98	Date Analyzed 12-12-98
Type of Asbestos NSD Type of Asbestos NSD		Type of Asbestos: NSD	Typeof Asbestos NSD
StructuresDensity. <15.5039 StructuresDensity. <15.5039 (structuresDensity. <15.5039)		Structures Density: <15.5039 (struc/sq.mm)	Structures Density: <15.5039 (structures name)
StructureCon: <0.0050	StructureCon: <0.0050	StructureCon: <0.0050	StructureCon: <0.0050
AsbestosStructures: 0	Asbestos Structures: 0	Asbestos Structures 0	Asbestos Structures 0

Abbreviations

TEM-Transmission Electron Microscopy, AP-Areasample priorto abatement, AD-Areasample during abatement, C-Cleanance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airexhaust, PA-postabutement areasample, BG-Background, LOQ-Limitot Quantification, LOD-Limitof Detection, NSD-No Asbestos Detected

Comments

Analyzedby:

CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-33

### ENVIRONMENTAL, In ATTN: Joe Simmons

THREE RIVERS

PURCHASE ORDER NO: Verbal

CONTRACTOR: Keystone Contracting, IncREPORT NO: 1

**PROJECT:** Willamette Primary 1403 S.E. 12th Street West Linn, OR 97068 PAGE NO: 1 OF 2

SampleiDNo: 5	SampleIDNo:	SampleiDNo:	SampleIDNox
LaboratoryNo: SO98-1528	Laboratory No.	Laboratory No;	LaboratoryNo:
SampleLocation Middle of dirt crawlspace	Sample Location	Sample Location	Sample Locaixon
WorkPerformed N/A	WorkPerformed	WorkPerionnect	WorkPerformed
DateSampled 12-11-98	Date:Samplect	DateSampled	DateSampled
Sampledby: S. Olson	Sampled by:	Sampled by:	Sampled by:
PumpNa HV-95	PumpNa	PumpNa	PumpNa
StartTime: 11:40	Start Time:	StartTime:	Start Time:
StopTime 13:40	Stop Time:	Stop Time:	Stop Time:
MinutesSamplect 120	MinutesSamplect	MinutesSamplect	MinutesSamplect
Start How Rate: 10.0LPM	Start Flow Rate: L.P.M	Start Flow Rate: LPM	Start Flow Rate: LPM
Stop Flow Rate: 10.0 LPM	Stop Flow Rate: LPM	Stop Flow Rate: LPM	Stop Flow Rate: LPM
AvengeFlowRate 10.0LPM	Average Flow Rate: LPM	AverageFlowRate: LPM	AverageFlowRate: LPM
Volume 1200 L	Volume: L	Volume L	Volume: L
Date Analyzed 12-12-98	DateAnalyzed	DateAnalyzect	Date Analyzect
Type of Asbestos: NSD	Type of Asbestos:	Type of Asbestos	Type of Asbestos:
StructuresDensity: <15.5039 (structsq.mm)	Structures Density: (Struc/sq.mm.)	Structures Density: (Struc/SQ_IIIIII)	Structures Density: (struc/sq.mm)
StructureCon: <0.0050	StructureCon: (struc/ccar)	StructureCon: (struc/ccarr)	StructureCon: (struc/ccar)
AsbestosStructures 0	AsbestosStructures	Asbestos Structures:	AsbestosStructures

Abbreviations

TEM-Transmission Electron Microscopy, AP-Areasample prior to abatement, AD-Areasample charing abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative air exhaust, PA-post abatement area sample, BG-Background, LOQ-LimitofQuantification,LOD-LimitofDetection,NSD-NoAsbestosDetected

**Comments** 

**EMSL** Analyzedby:

ASBESTOS ABATEMENT SUMMARY Project #: 1020–35
Job Location: WillAmette Primary Floor: Boiler Boin Project: 1403 SE 12th STreat WEST him OR 97066 - Patch & Repair
For pipe provide: Total linear feet and pipe size
For other materials provide: Total square feet: FALCH + Repair
Type of ACM:
Start Date: 12-28-96 Completion Date: 12-28-98
Methods to Control Emissions: Wet Methods, NON Distur BANE work practice,
Give name of Contractor of Subcontractor:
Name: KEYSTONE CONTRACTION
Address: 417 NW 209Th 1
City: <u>RIPgEfielD</u> State: <u>WA</u> Zip: <u>98432</u>
Phone: 360-867-0666 Contact person:
Name of Monitoring Lab: Three River's ENVIRON weat + /
Anticipated Disposal Site:HIUSbaro LANDAIL
Supervisor in charge of job:
Project Manager: RoBert MONTgomery
Diosh       Exp. Date:       Phone:       557-23-96
Asbestos Program Manager: SE SIMMONS #CX-820756-61-0
Training date: $5/30/36$ Exp. date: Phone: $503-638-9869$
O&M (less than 3 ln. 3 sq. ft.)
Small scale
Large scale

Attach pre-abatement and post-abatement air sample results



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons

P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 1

**PROJECT:** Willamette Primary Patch & Repair PAGE NO: 1 OF 1

Method of analysis NIOSH7400 Limit of Detection 5.5Fibers, Limit of Quantification 100 fibers, Specification Range 100<f/mm2<1300 SampleIDNo: SampleIDNo SampleIDNot SampleIDNo **B1 B2** 1 LaboratoryNa MJ98-0872 LaboratoryNox MJ98-0873 LaboratoryNox MJ98-0874 LaboratoryNo. Sample Location Sample Location Sample Location Sample Location Blank Blank Rob Walkenhauer 535-86-2210 1/2 face P WorkPerformed WorkPerformed WorkPerformed WorkPerformed Floor tile/removal N/A N/A DateSampled DateSampled DateSampled DateSampled 12/28/98 12/28/98 12/28/98 Sampledby: R. Montgomery Sampledby: R. Montgomery Sampled by: Sampled by: R. Montgomery PumpNa PumpNa PumpNa PumpNa LV-53 N/A N/A Start Turne: StartTime StartTime: StartTime: 08:20 N/A N/A Stop Time: 09:15 Stop Time: N/A Stop Time: N/A Stop Time: MinutesSampled Minutes Sampled MinutesSampled MinutesSampled 55 N/A N/A Start HowRate (LPM) Start How Rate (LPM) 2 Start Flow Rate (LPM) Start How Rate (LPM) N/A N/A StopHowRate (LPM) StopFlowRate: (LPM) StopFlowRate (LPM) 2 StopFlowRate (LPM) N/A N/A Average How Rate (LPM) 2 Average How Rate (LPM) Average Flow Rate (LPM) Average How Rate (LPM) N/A N/A Volume: Volume Volume Volume 110 N/A N/A L L L L DateAnalyzed DateAnalyzed DateAnalyzed DateAnalyzed 12/31/98 12/31/98 12/31/98 GraticuleFieldArea 0.00817 GraticuleFieldArea GraticuleFieldArea 0.00817 GraticuleFieldArea 0.00817 Total Fibers Total Fibers Total Fibers: Total Fibers: 2/1000/100 0/100 Coefficient of Variation: Coefficient of Variation: Coefficient of Variation Coefficient of Variation: LOD N/A N/A Fibers/cc: Fibers/cc. Fibers/cc: Fibers/cc: 0.0085 f/ce N/A f/ce N/A f/cc f/cc

Abbreviations

AP-Areasample prior to a batement, AD-Areasample during a batement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airex basist, PA-postabatement areasample, BC-Background, LOQ-Limitof Quantification, LOD-Limitof Detection

Comments

Analyzedby: Matthew Johnson



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### Air Sample Analysis Report

CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons

P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 2

**PROJECT:** West Linn High School Patch & Repair

Method of analysis NIOSH7400 Limit of Detection: 55Fibers, Limit of Quantification 100 fibers, Specification Range 100<1/mm2<1300

PAGE NO: 1 OF 1

SampleIDNa SampleIDNo: SampleIDNo SampleIDNo: 2 **B**1 **B**2 LaboratoryNa MJ98-0876 LaboratoryNox MJ98-0877 LaboratoryNox MJ98-0878 LaboratoryNo: MJ98-0875 Sample Location Sample Location Sample Location: Sample Location: Rob Walkenhauer Blank Blank Bottom of stairs, boiler room 535-86-2210 1/2 face AD Ρ WorkPerformed **WorkPerformed** WorkPerformed WorkPerformed Patch & Repair Patch & Repair N/A N/A DateSampled DateSampled DateSampled DateSampled 12/28/98 12/28/98 12/28/98 12/28/98 Sampled by: R. Montgomery Sampledby: R. Montgomery Sampledby: R. Montgomery Sampledby: R. Montgomery PumpNa PumpNa PumpNa PumpNa N/A N/A HV-04 LV-53 StartTime Start Time: Start Time: Start Time: 10:00 10:00 N/A N/A Stop Time: Stop Time: StopTime N/A StopTime 11:10 11:10 N/A MinutesSampled: 70 MinutesSampled 70 MinutesSampled N/A MinutesSampled N/A Start How Rate (LPM) 10 Start How Rate (LPM) 2 Start How Rate (LPM) Start How Rate (LPM) N/A N/A Stop How Rate (LPM) Stop Flow Rate (LPM) 2 StopHowRate (LPM) StopFlowRate (LPM) 10 N/A N/A Average How Rate: (LPM) Average How Rate (LPM) 2 AverageHowRate (LPM) Average How Rate (LPM) 10 N/A N/A Volume Volume Volume Volume 700 N/A N/A 140 L L L L **Date**Analyzed DateAnalyzed DateAnalyzed DateAnalyzed 12/31/98 12/31/98 12/31/98 12/31/98 GraticaleFieldArea GraticuleFieldAnear GraticuleFieldArea GraticuleFieldArear 0.00817 0.00817 0.00817 0.00817 Total Fibers: Total Fibers: Total Fibers Total Fibers 0/100 4/100 2/100 0/100 Coefficient of Variation: Coefficient of Variation: Coefficient of Variation N/A Coefficient of Variation N/A LOD LOD Fibers/cc: Fibers/cc: Fibers/cc Fibers/cc: N/A <0.0067 f/ce 0.0067 N/A f/cc f/cc f/cc Abbreviations

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airex during the postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments <Sample calculated at Limit of Quantification (10 fibers/100 fields)

Analyzedby: Matthew Johnson



CLIENT:West Linn-Wilsonville School DistrictTRE JOB NO: 1020-35ATTN:Joe SimmonsP.O. NO: VerbalCONTRACTOR:Keystone Contracting, Inc.REPORT NO: 3

PROJECT: Bolton Primary Patch & Repair PAGE NO: 1 OF 2

Methodofanalysis NIOSH7400 Limitof Detection: 55Fibers, Limit of Quantification: 10.0 fibers, Specification Range: 100<f/mm2<1300 SampleIDNo: SampleIDNor SampleIDNo SampleIDNo: 1 2 **B**1 **B**2 LaboratoryNo: MJ98-0880 LaboratoryNo: MJ98-0877 LaboratoryNox MJ98-0879 LaboratoryNo: MJ98-0878 Sample Location SampleLocation Sample Location Sample Location: Bob Craft 568-15-4649 Blank E, wall boiler room. Blank below Hankison oiler 1/2 face Ρ AD WorkPerformed WorkPerformed WorkPerforment WorkPerformed Patch & Repair Patch & Repair N/A N/A DateSampled DateSampled DateSampled DateSampled 12/28/98 12/28/98 12/28/98 12/28/98 Sampledby: R. Montgomery Sampledby: R. Montgomery Sampledby: R. Montgomery Sampledby: R. Montgomery PumpNa PumpNa PumpNa PumpNa HV-04 LV-53 N/A N/A Start Time: Start Time: Start Time: Start Time: 11:50 11:50 N/A N/A Stop Time: 13:40 Stop Time: 14:00 Stop Time: StopTime: N/A N/A MinutesSampled MinutesSamplet MinutesSampled Minutes Sampled 110 130 N/A N/A Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) 2 10 N/A N/A StopFlowRate (LPM) StopHowRate (LPM) 2 StopFlowRate (LPM) StopFlowRate (LPM) 10 N/A N/A Average How Rate (LPM) Average How Rate (LPM) Average How Rate (LPM) 2 Average How Rate (LPM) 10 N/A N/A Volume Volume Volume Volume 1100 260N/A N/A L L L L DateAnalyzed DateAnalyzed DateAnalyzed DateAnalyzed 12/31/98 12/31/98 12/31/98 12/31/98 GraticuleFieldArear 0.00817 GraticuleFieldArea 0.00817 GraticuleFieldArea 0.00817 GraticuleFieldArea 0.00817 Total Fibers Total Fibers: Total Fibers: Total Fibers 2/100 0/1000/100 10/100 Coefficient of Variation: Coefficient of Variation: Coefficient of Variation: Coefficient of Variation: 0.63 LOD N/A N/A Fibers/cc. Fibers/cc. Fibers/cc: Fibers/cc 0.0042 f/ce 0.020 0.0054 f/cc N/A f/cc f/cc

Abbreviations:

AP-Areasample prior to a batement, AD-Areasample during a batement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airex haust, PA-post a batement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

#### **Comments**

Analyzedby: Matthew Johnson



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons

P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 3

PROJECT: Bolton Primary Patch & Repair

Methodof analysis: NIOSH7400 Limitof Detection: 5.5 Fibers; Limit of Quantification: 10.0 fibers; Specification Range: 100-cl/mm2<1300

PAGE NO: 2 OF 2

SampleIDNo: SampleIDNor SampleIDNor SampleIDNo **B**2 LaboratoryNox MJ98-0883 Laboratory No. LaboratoryNo. LaboratoryNo: Sample Location Sample Location Sample Location Sample Location Blank WorkPerformed WorkPerformed WorkPerformed WorkPerformed N/A DateSampled DateSampled: DateSampled DateSampled 12/28/98 Sampled by: Sampled by: Sampledby: R. Montgomery Sampled by: PumpNa N/A PumpNa PumpNa PumpNa Start Time: Start Time: Start Time: Start Time: N/A StopTime: N/A Stop Time: Stop Time: Stop Time: MinutesSampled **MinutesSampled** MinutesSampled MinutesSampled: N/A Start How Rate (LPM) Start Flow Rate (LPM) Start How Rate: (LPM) Start How Rate (LPM) N/A StopFlowRate (LPM) StopFlowRate (LPM) StopFlowRate (LPM) Stop How Rate (LPM) N/A Average How Rate (LPM) Average How Rate: (LPM) Average How Rate (LPM) Average How Rate (LPM) N/A Volume: Volume Volume Volume: N/A L L L L DateAnalyzed DateAnalyzed **Date**Analyzed DateAnalyzed 12/31/98 GraticuleFieldAtear 0.00817 **GraticuleFieldArea** GraticuleFieldArea GraticuleFieldArea Total Fibers: Total Fibers Total Fibers Total Fibers: 0/100 Coefficient of Variation: Coefficient of Variation Coefficient of Variation Coefficient of Variation N/A Fibers/cc: Fibers/cc: Fibers/cc: Fibers/cc: N/A f/cc f/cc f/cc f/cc

Abbreviations

AP-Areasample prior to a batement, AD-Areasample chaing a batement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airexhaust, PA-postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

**Comments** 

Analyzedby: Matthew Johnson



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#### Air Sample Analysis Report

CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

Joe Simmons P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 2

PROJECT: West Linn High School Patch & Repair

ATTN:

PAGE NO: 1 OF 1

SampleIDNox 1	SampleIDNox 2	SampleIDNox B1	SampleIDNo: B
LaboratoryNa MJ98-0875	LaboratoryNox MJ98-0876	LaboratoryNox MJ98-0877	LaboratoryNox MJ98-087
Sample Location: Bottom of stairs, boiler room AD	SampleLocation Rob Walkenhauer 535-86-2210 1/2 face P	Sample Location: Blank	Sample Location: Blank
WorkPerformed Patch & Repair	WorkPerformed Patch & Repair	WorkPerformed N/A	WorkPerformed N/A
DateSampled 12/28/98	DateSampled 12/28/98	DateSampled: 12/28/98	DateSampled 12/28/9
Sampledby: R. Montgomery	Sampledby: R. Montgomery	Sampledby: R. Montgomery	Sampledby: R. Montgomer
PumpNia HV-04	PampNa LV-53	PumpNia N/A	PumpNa N/
StartTime: 10:00	StartTime: 10:00	StartTime: N/A	StartTime: N/
StopTime: 11:10	Stop Time: 11:10	StopTime: N/A	Stop Time: N/
MinutesSempled 70	MinutesSamplect 70	MinutesSamplect N/A	MinutesSamplect N/
Start How Rate: (LPM) 10	Start How Rate: (LPM) 2	Start How Rate: (LPM) N/A	Start Flow Rate: (LPM) N/
StopFlowRate: (LPM) 10	StopFlowRate (LPM) 2	StopFlowRate (LPM) N/A	StopFlow Rate: (LPM) N/
Average Row Rate (LPM) 10	Average Flow Rate (LPM) 2	Average How Rate (LPM) N/A	Average How Rate (LPM) N/
Volume 700 L	Volume: 140 L	Volume: N/A L	Volume N/A L
Date Analyzed 12/31/98	Date Analyzed 12/31/98	DateAnalyzed: 12/31/98	DateAnalyzed 12/31/9
GraticuleFieldArea: 0.00817	GraticuleFieldArea 0.00817	GaniculeFieldArea 0.00817	GraticuleFieldArear 0.0081
Total Fibers 4/100	Total Fibers 2/100	Total Fibers: 0/100	Total Fibers 0/10
Coefficient of Variation LOD	Coefficient of Variation LOD	Coefficient of Variation: N/A	Coefficient of Variation: N/
Fibers/cc. = -0.0067 f/cc	Fibers/cr: 0.0067 f/cc	Fibers/cc: N/A f/ee	Fibers/cc: N/A f/c

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Cleanance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airex haust, PA-post abatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments <Sample calculated at Limit of Quantification (10 fibers/100 fields)

Analyzedby: Matthew Johnson

Abbreviations



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 3

PROJECT: Bolton Primary Patch & Repair PAGE NO: 2 OF 2

Coefficient of Variation:

f/cc

Fibers/or:

f/cc

Methodofanalysis: NIOSH7400 Limitof Detection: 55Fibers; Limit of Quantification: 10.0 fibers; Specification Range; 100-fimm2<1300 SampleIDNo SampleIDNo: SampleIDNo SampleIDNo **B2** LaboratoryNox MJ98-0883 Laboratory No. LaboratoryNo: LaboratoryNox Sample Location Sample Location SampleLocation SampleLocation Blank WorkPerformed WorkPerformed WorkPerformed WorkPerformed N/A DateSampled DateSampled DateSampled 12/28/98 DateSampled Sampledby: R. Montgomery Sampled by: Sampled by: Sampled by: PumpNa PumpNox PumpNa PumpNa N/A Start Time: Start Time: Start Time: StartTime: N/A StopTime N/A Stop Time: Stop Time: Stop Time: MinutesSampled N/A MinutesSampled MinutesSampled MinutesSampled: Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) N/A StopFlowRate (LPM) Stop How Rate (LPM) StopFlowRate (LPM) StopFlowRate (LPM) N/A AverageFlowRate: (LPM) AverageHowRate (LPM) Average How Rate (LPM) Average How Rate (LPM) N/A Volume Volume Volume Volume N/A L L Ľ L DateAnalyzed DateAnalyzed DateAnalyzed DateAnalyzed 12/31/98 GraticuleFieldArear GraticuleFieldArea GraticuleFieldArea GraticuleFieldArea 0.00817 Total Fibers: 0/100 Total Fibers: Total Fibers: Total Fibers

Fibers/cc: N/A Abbreviations:

Coefficient of Variation:

AP-Areasample prior to a batement, AD-Areasample cluring a batement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airexhaust, PA-postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Fibers/cc:

Coefficient of Variation:

Comments

N/A

f/cc

Analyzedby: Matthew Johnson

Coefficient of Variation

Fibers/cc:

P.O. Box 216 Gladstone Oregon, 97027 Office: (503) 557-2396 Fax: 557-3025

f/cc



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 1

**PROJECT:** Willamette Primary Patch & Repair PAGE NO: 1 OF 1

SampleIDNo: 1	SampleIDNox B1	SampleIDNox B2	Sample IDNo:
LaboratoryNor MLJ98-0872	LaboratoryNo: MJ98-0873	LaboratoryNo: MJ98-0874	LaboratoryNo.
Sample Location Rob Walkenhauer 535-86-2210 1/2 face P	Sample Location Blank	Sample Location Blank	Sample Location
WorkPerformed Floor tile/removal	WorkPerformed N/A	WorkPerformed N/A	WorkPerformed
DateSampled 12/28/98	DateSampled 12/28/98	DateSampled 12/28/98	DateSamplect
Sampledby: R. Montgomery	Sampledby: R. Montgomery	Sampled by: R. Montgomery	Sampled by:
PumpNia LV-53	PumpNa N/A	PumpNia N/A	PumpNa
StartTime: 08:20	StartTime: N/A	StartTime: N/A	Start Time:
StopTime: 09:15	Stop Time: N/A	Stop Time: N/A	StopTime:
MinutesSampled 55	MinutesSamplect N/A	MinutesSamplect N/A	MinutesSampled:
Start Flow Rate (LPM) 2	Start Flow Rate (LPM) N/A	Start How Rate (LPM) N/A	Start How Rate (LPM)
Stop Flow Rate (LPM) 2	StopHowRate (LPM) N/A	StopFlowRate: (LPM) N/A	Stop Flow Rate (LPM)
Average How Rate: (LPM) 2	Average RowRate (LPM) N/A	AverageHowRate (IPM) N/A	Average How Rate: (LPM)
Volume 110 L	Valume: N/A L	Volume N/A L	Volume, L
Date Analyzed 12/31/98	DateAnalyzed 12/31/98	Date Analyzed 12/31/98	DateAnalyzect
GraticuleFieldArea 0.00817	GraticuleFieldArea 0.00817	GeniculeFieldArea 0.00817	GraticuleFieldArez
Total Fibers: 2/100	Total Fibers: 0/100	Total Fibers: 0/100	Total Fibers
Coefficient of Variation: LOD	Coefficient of Variation: N/A	Coefficient of Variation: N/A	Coefficient of Variation:
Fibers/cc: 0.0085 f/cc	Fibers/cc: N/A f/cc	Fibers/cc N/A f/cc	Fibers/or: f/cc

AP-Areasample priorioabatement, AD-Areasampleduring abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airextnass, PA-postabatement areasample, BG-Background, LOQ Limit of Quantification, LOD-Limit of Detection

**Comments** 

Analyzedby: Matthew Johnson



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons

P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 2

**PROJECT:** West Linn High School Patch & Repair

PAGE NO: 1 OF 1

SampleIDNox 1	SampleIDNo: 2	SampleIDNo: B1	SampleIDNo: B2
LaboratoryNo: MJ98-0875	LaboratoryNo: MJ98-0876	Laboratory No. MJ98-0877	LaboratoryNox MJ98-0878
SampleLocation Bottom of stairs, boiler room AD	Sample Location Rob Walkenhauer 535-86-2210 1/2 face P	Sample Location Blank	Sample Location Blank
WorkPerformed Patch & Repair	WorkPerformed Patch & Repair	WorkPerformed N/A	WorkPerformed N/A
DateSampled: 12/28/98	DateSampled 12/28/98	DateSampled 12/28/98	Date Samplect 12/28/98
Sampledby: R. Montgomery	Sampleciby: R. Montgomery	Sampledby: R. Montgomery	Sampled by: R. Montgomer
PumpNa HV-04	PumpNia LV-53	PumpNa N/A	PumpNa N/A
StartTime: 10:00	Start Time: 10:00	StartTime: N/A	StartTime: N/A
Stop Time: 11:10	SkopTime: 11:10	Stop Time: N/A	Stop Time: N/A
MinutesSampled 70	MinutesSampled 70	MinutesSampled: N/A	MinutesSamplect N/A
Start How Rate: (LPM) 10	Start How Rate: (LPM) 2	Start How Rate (LPM) N/A	Start How Rate (LPM) N/A
Stop Flow Rate: (LPM) 10	StopFlowRate (LPM) 2	StopFlow Rate (LPM) N/A	Stop Flow Rate: (LPM) N/A
Average How Rate (LPM) 10	Average How Rate (LPM) 2	Average How Rate: (LPM) N/A	AveageRowRate (LPM) N/A
Volume: 700 L	Volume 140 L	Volume N/A L	Volume N/A L
Date Analyzed 12/31/98	Date Analyzed 12/31/98	DateAnalyzed 12/31/98	Date Analyzed 12/31/98
GraticuleFieldArea: 0.00817	GraticuleFieldArea 0.00817	GraticuleFieldArea 0.00817	GraticuleFieldArea 0.00817
Total Fibers: 4/100	Total Fibers: 2/100	Total Fibers 0/100	Total Fibers 0/100
Coefficient of Variation: LOD	Coefficient of Variation: LOD	Coefficient of Variation: N/A	Coefficient of Variation: N/A
Fibers/cc $< 0.0067$ f/cc	Fiberson 0.0067 f/cc	Fibersoc: N/A f/ee	Fibers/cc: N/A f/cc

Abbreviations

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airex haust, PA-postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments <Sample calculated at Limit of Quantification (10 fibers/100 fields)

Analyzedby: Matthew Johnson



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 3

**PROJECT:** Bolton Primary Patch & Repair

PAGE NO: 1 OF 2

SampleIDNo: 1	SampleIDNo: 2	SampleIDNo: B1	SampleIDNo: B2
LaboratoryNo MJ98-0879	Laboratory No. MJ98-0880	LaboratoryNo: MJ98-0877	LaboratoryNo: MJ98-0878
Sample Location:	Sample Location:	Sample Location:	Sample Location:
E. wall boiler room,	Bob Craft 568-15-4649	Blank	Blank
below Hankison oiler	1/2 face		
AD	Р		
WorkPerformed	WorkPerformed	WorkPerformed	WorkPerformed
Patch & Repair	Patch & Repair	N/A	N/A
DateSampled 12/28/98	DateSampled 12/28/98	DateSampled 12/28/98	DateSampled 12/28/98
Sampled by	Sampledby	Samplether	Sampledby
R. Montgomery	California, R. Montgomery	Sanjacisy. R. Montgomery	R. Montgomery
PumpNa HV-04	PumpNa LV-53	PumpNa N/A	PumpNa N/A
Start Time: 11:50	StartTime: 11:50	StartTime: N/A	StartTime: N/A
StopTime: 13:40	Stop Time: 14:00	StopTime: N/A	Stop Time: N/A
VinnaesSamplect 110	MinutesSamplect 130	MinutesSamplect N/A	MinutesSamplect N/A
Start How Rate (LPM) 10	Start How Rate (LPM) 2	Start How Rate: (LPM) N/A	Start Flow Rate: (LPM) N/A
StopFlowRate (LPM) 10	StopHowRate: (LPM) 2	Stop How Rate (LPM) N/A	StopFlowRate (LPM) N/A
Average Row Rate (LPM) 10	AverageRowRate (LPM) 2	Average How Rate (LPM) N/A	Average Row Rate (LPM) N/A
Volume 1100 L	Volume 260 L	Volume: N/A L	Volume N/A L
Date Analyzed 12/31/98	Date Analyzed 12/31/98	Date Analyzed 12/31/98	Date Analyzed 12/31/98
InsticuleFieldArea 0.00817	GraticuleFieldArea 0.00817	CasticuleFieldArea 0.00817	GraticuleFieldArea 0.00817
Total Fibers: 10/100	Total Fibers 2/100	TotalFibers: 0/100	Total Fibers: 0/100
Coefficient of Variation: 0.63	Coefficient of Variation: LOD	Coefficient of Variation: N/A	Coefficient of Variation: N/A
الموجوعية الأسمود والتربية المائية ويريبون المحمد المعالية المراجع والمحمد المعادية المحمد المعادية المحمد وال والمتشادية المحمد المتشاد المحمد ال	(«المستقدر مي من من المربع عليه المستقدين من		

AP-Areasample priorto abutement, AD-Areasample during abutement, C-Clearance, P-Personal sample from breathing zone, EL-Excussion limit, NAE-Negative airex haust, PA-postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments

Abbreviations

Analyzedby: Matthew Johnson



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-35

ATTN: Joe Simmons P.O. NO: Verbal

CONTRACTOR: Keystone Contracting, Inc. REPORT NO: 3

**PROJECT:** Bolton Primary Patch & Repair

PAGE NO: 2 OF 2

Methodof analysis NIOSH7400 Limit of Detection 5.5 Fibers; Limit of Quantification: 10.0 fibers; Specification Range: 100-f/mm2<1300 SampleIDNo: SampleIDNor SampleIDNo: SampleIDNo **B2** Laboratory No: LaboratoryNor Laboratory No: LaboratoryNo: MJ98-0883 Sample Location Sample Location Sample Location Sample Location Blank WorkPerformed WorkPerformed WorkPerformed WorkPerformed N/A DateSampled DateSampled DateSampled DateSampled 12/28/98 Sampledby: R. Montgomery Sampled by: Sampled by: Sampled by: PumpNa N/A PumpNa PumpNa PumpNa StartTime Start Time: Start Time: Start Time: N/A Stop Time: Stop Time: N/A StopTime Stop Time: MinutesSampled MinutesSampled MinutesSampled MinutesSampled N/A Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) N/A Stop How Rate (LPM) StopFlowRate (LPM) StopFlowRate (LPM) Stop Flow Rate (LPM) N/A Average How Rate (LPM) Average How Rate (LPM) Average How Rate (LPM) Average How Rate (LPM) N/A Volume Volume Volume Volume L N/A L L L DateAnalyzed Date: Analyzed **Date**Analyzed Date Analyzed 12/31/98 GeniculeFieldArea 0.00817 **GraticuleFieldArea** GranculeFieldArea GaticuleFieldArea Total Fibers: Total Fibers Total Fibers Total Fibers 0/100 Coefficient of Variation: Coefficient of Variation: Coefficient of Variation: Coefficient of Variation: N/A Fibersvoc: Fibers/cc Fibers/cc: Fibers/cc: N/A f/cc f/cc f/cc f/cc

Abbreviations:

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airexhaust, PA-postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments

Analyzedby: Matthew Johnson



Copy of

DATE	INVOICE NO.
01/06/99	990014

**BILL TO** West Linn-Wilsonville School District Joe Simmons Administration Building P.O. Box 35 West Linn, OR 97068

DIRECT PAYMENT TO:
THREE RIVERS ENVIRONMENTAL, Inc.
Gladstone, OR 97027

	P.O.	NO. TEI	RMS SHIP DATE	TRE Project#
	Vert	pal Due or	n receipt 01/06/99	1020-35
QTY	DE	SCRIPTION	RATE	AMOUNT
8 1	Project Management/On-Site Air M Patch And Repair, Keystone Contr	fonitoring AB acting	35.00 1,187.50	280.00 1,187.50
	Bolton, West Linn High, Willamet	e & Wood		
				:
		•		
•		~ ^ `	<b>T</b> -1-1	
;	E	Ht Jochmm	notal	\$1,467.50

ASBESTOS ABATEMENT SUMMARY Project #: <u>1020-36</u>
Job Location: WILLA METTE Frmany Floor:
Project: - Belk Sampling only - Willamette
Primary - 3 1403 SE 12Th STREET WEST him OR 97068
For pipe provide: Total linear feet <u>NA</u> and pipe size <u>NA</u>
For other materials provide: Total square feet:
Type of ACM: <u>Chrysotiliz</u> .
Start Date: $1/28/99$ Completion Date: $P-FeB_1/99$
Methods to Control Emissions:
Give name of Contractor of Subcontractor:
Name:
Address:
City: State: Zip:
Phone: Contact person:
Name of Monitoring Lab: Three River's ENVIRONMENTE//E.H.S
Anticipated Disposal Site:
Supervisor in charge of job:
Project Manager: MATT Soluson TRE
Cert. #:         Exp. Date:         Phone:
Asbestos Program Manager: <u>502</u> SUMMON'S #CX-820756-0-0
Training date: $\frac{5/31/16}{16}$ Exp. date: Phone:
O&M (less than 3 ln. 3 sq. ft.)
Small scale
Large scale
Eully Sampling Attach pre-abatement and post-abatement air sample results

#### ENVIRONMENTAL HAZARDS SERVICES. L 7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907 BULK ASBESTOS SAMPLE ANALYSIS SUMMARY CLIENT: Three Rivers Environmental DATE OF RECEIPT: 01 FEB 1999 P.O. Box 216 DATE OF ANALYSIS: 01 FEB 1999 Gladstone, OR 97027 DATE OF REPORT: 01 FEB 1999 CLIENT NUMBER: 38-2970 EHS PROJECT #: 02-99-0043 PROJECT: 1020-36_ EHS CLIENT SAMPLE # % ASBESTOS OTHER MATERIALS SAMPLE # LABORATORY GROSS DESCRIPTION NAD 01 WLHS-001/ 10% Fibrous Glass Black Tar-Like 90% Non-Fibrous WLHS-002/ 10% Fibrous Glass 02 NAD Black Tar-Like 90% Non-Fibrous $\mathbf{c}$ 10% Fibrous Glass WLHS-003/ NAD Black Tar-Like 90% Non-Fibrous 100% Non-Fibrous WLHS-004/ NAD Ū4 Gray Powder 100% Non-Fibrous WLHS-005/ 05 NAD Gray Powder WLHS-006/ 98% Non-Fibrous 06 2% Chrysotile Gray Powder 2% Total Asbestos 100% Non-Fibrous 07 WLHS-007/ NAD Gray Gran. WLHS-008/ 100% Non-Fibrous 08 NAD Gray Gran. 100% Non-Fibrous WLHS-009/ 09 NAD Gray Gran.

METHOD:

Polarized Light Microscopy, EPA Method 600/R-93/116

ANALYST:

Feng Jiang, M.S.

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist

#### ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

. . .

CLIE	int number:	38-2970
Ens	PROJECT #:	02-99-0043
	JECT:	1020-36

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, LL.C.

Environmental Hazards Services, Inc. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy ((TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Poilutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM), Both services are available for an additional fee.

1 No. of Concession, name of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other Division of States, or other	
	NAC - no ophasting dotantad
LEUEND	INNO - IIA Senderina ridracina

plm1.dot/27DEC1998/mb

- PAGE 02 of 02 - END OF REPORT -

Attention: Company Name Mailing Addres	Similar FAX	L/~ ERS NIA . OR. 9 : (503)	L 71027 557-3025	CHAIN OF C SAMPLE TYPE ASUESTOS PLM (Inits) PCM (Inits) PCM (Inits) DCM (Inits) DCM (Inits) Sample Group Public decy DEAD AA Flame (sky DAA Flame (sky DAA Flame (sky DEAD AA Flame (sky DEAD DAA Flame (sky Disting Water)	C.S.T. SAMPLE TU Standard Differ (geoty)_	(3 day) (24 hour)	GMM TRE Client N P.O. Number: Project Numb Date Sampled Date Submitte Special Instructions	$\frac{1020}{1020 - 36}$ er: $1020 - 36$ $\frac{1 - 27 - 99}{120}$ ed: $1 / 28 / 99$		
Sample II)	Date	Forlure Stop		Sample Description		Sanı	ple Location	Quantity (SF/LF)	Volume	Result
	1-17.99	<del> </del>	Parting			120 SA FART		R5 000 SF.	PTCTURE #1-2	j
w145.000	11	{	11			LEFTOFA	THUNSE SO.		· "#3	·
WLH 5. 00 3	11	*	1	······································		Rant OF AR	DOOR TRACIDIO	F	n "#4	
WLH3.004	11		EXTERIOR W	YTTU WODA		CUTZIDE RA	509 LOWER L.	ISDA SAFT	11 445	IS CORSENSING
WL HS-005	11		1	I was a second	and the first first state	DUTSIDE PW	52B Weren		tł	
10LH5-006	11	*		,		WINDE FWAI	PLAS WINDOW	ŀ		
WL115-007	11		MOARTER BETT	DEEN GLASS BLOCKS		OUTSIDE DA	509 LAT CONNER	5000 59 FT	¹¹ ¹¹ <del>В</del> Б	
WL115-008	()			71		DUTSIDE BM	FIRST ROLD			
WLHS-009	11	¥	-	11		outside Ath	TO LAD LAT CORUSE			
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				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			92 <b>%</b>			
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				,						
	ampled Day 1	Signa		Relinguished Byz (Sian)		Time	1 1 -Dingiaval	Nv. (Sign)		Time
Matthe (Jeleura			attte Aphan	1/20/	00 11:30	-(- <i>K</i> )K)2		DIN		
JIMWV-	yum mus			and gurne		4 111 - 20 -		<u></u>	pv 11/	
U	. <u> </u>			V			AB:			

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ASBESTOS ABATEMENT SUMMARY Project #: <u>1620 44</u>					
Job Location: WillAmette primary school Floor: haver hered Project: Lower hevel Grol's REST Roam 1403 SE 12TH STREET WEST LINN OR 97068					
For pipe provide: Total linear feet and pipe size					
For other materials provide: Total square feet: <u><u>Elove Bay</u></u>					
Type of ACM:					
Start Date: $0/7/99$ Completion Date: $3/4/99$					
Methods to Control Emissions: Wat Method's , work prectices ( could alz	>				
Give name of Contractor of Subcontractor:					
Name: IRS LICEULE # F56515					
Address: 19645 SE Surmy Sitte RD					
City: <u>Borne</u> State: <u>OR</u> Zip: <u>9700</u> 9					
Phone: 458-6606 Contact person: Bruce Konun					
Name of Monitoring Lab: Thosas Rueurs EUVIDONMENTAL					
Anticipated Disposal Site: Hills Buro LANPfill					
Supervisor in charge of job: RON CHAFE / VINCE CHAVES					
Project Manager: MATH John SON THE / Troy Norsh / Shaw ols	ŝ				
Cert. #: Exp. Date: Phone:					
Asbestos Program Manager: <u>Soe Simmons #CX-8207-56-01-</u>	0				
Training date: $5 \overline{30}$ & Exp. date: Phone: $\underline{503} - 638 - 9869$	٢				
O&M (less than 3 ln. 3 sq. ft.)					
Small scale					
Large scale					

Attach pre-abatement and post-abatement air sample results



West Linn-Wilsonville School District TRE JOB NO: 1020-14 CLIENT: Joe Simmons ATTN: P.O. NO: Verbal **CONTRACTOR:** Insulation Removal Specialist **REPORT NO: PROJECT:** Willamette Primary School

Lower Level Girls Restroom

PAGE NO: 1 OF 2

Methodofanatysis NIOSH7400 Limit	tofDetection 55Fibers, Limitof Quantific	mion 10.0 tibes: Specification Range: 100	<f mm2<i300<="" td=""></f>
Sample: DNox 1	SampleiDNo. 2	Sample: DNa 3	SampleIDNox 4
LaboratoryNa MJ99-0352	LaboratoryNa MJ99-0353	LaboratoryNic MJ99-0354	LaboratoryNo: MJ99-0355
Sample Location Entrance of Airlock	Sample Location Exhaust of Neg Air Machine #17	SimpleLocation 6' Inside of Girls Restroom	SampleLocation 12' Inside of Girls Restroom
AD	NAE	<u>C</u>	C
WorkPerformed Glove Bag Removal	WorkPerformed Glove Bag Removal	WorkPeriomect N/A	WorkPerformed N/A
DateSampled 6/8/99	DaeSampled 6/8/99	DaeSamplet 6/8/99	DateSamplect 6/8/99
Sampledby: M. Johnson	Sampled by: M. Johnson	Sampledby: M. Johnson	Sampledby: M. Johnson
PumpNa HV-07	PumpNa HV-09	PampNa HV-01	PumpNia HV-09
StatTime 18:15	StartTime: 18:15	StatTime 20:55	StatTime 20:55
StepTime 20:15	StepTime: 20:15	StopTime 22:55	StopTime 22:55
MinutesSamplect 120	MinutesSamplet 120	MinutesSamplect 120	MinutesSamplect 120
Start How Rate (LPM) 10	Start How Rate: (LPM) 10	Start How Rate (LPM) 10	Start How Rate (LPM) 10
StopFlowRate (LPM) 10	Stop How Rate (LPM) 10	StopFlow Rate (LPM) 10	Stop Flow Rate (LPM) 10
Average How Rate (LPM) 10	Average How Rate (LPM) 10	Average How Rate (LPM) 10	Average How Rate (LPM) 10
Volume 1200 L	Volume 1200 L	Volume 1200 L	Volume 1200 L
Dae Anaiyzed 6/8/99	Date Analyzed 6/8/99	Date Analyzed 6/8/99	DateAnalyzed 6/8/99
GaniculeFieldArea: 0.00817	GeniculeFieldAsex 0.00817	GeniculeFieldAser 0.00817	GaniculeFieldAger 0.00817
Total Fibers 6/100	Total Fibers 3/100	Total Fibers 6/100	Total Fibers: 8/100
Coefficient of Variation: LOQ	Coefficient of Variation: LOD	Coefficient of Variation: LOQ	Coefficient of Variation: LOQ
Fibers/cc: <0.0039 f/cc	Fibers/cc: <0.0039 f/cc	Fibers/cc <0.0039 f/ce	Fibers/cc <0.0039 f/cc

Abbeviations

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negativezirezbaust, PA-postabaementareasample, BG-Background, LOQ-Limitof Quantification, LOD-Limitof Detection

Comments <Sample calculated at Limit of Quantification (10 fibers/100 fields)

Analyzedby: Matthew Johnson


CLIENT:West Linn-Wilsonville School DistrictTREJOBNO: 1020-44ATTN:Joe SimmonsP.O.NO: VerbalCONTRACTOR:Insulation Removal SpecialistREPORTNO: 1PROJECT:Willamette Primary School<br/>Lower Level Girls RestroomPAGENO: 2OF 2

SampleiDNa	B1	SampleiDNox	B2	SampleIDNox	SampleiDNo:
abaatoryNo: MJ9	9-03.56	LaboratoryNo: MJ	99-0357	LaboratoryNor	LaboratoryNo:
Sample Location Blank		Sample Location Blank	c	Sample Location:	SampleLocation
WorkPeriamed N/A		WorkPerformed N/A		WorkPationned	WorkPerforment
DateSamplet	6/8/99	DateSampled	6/8/99	DateSamplect	DateSampled
Sampled by: M. J	ohnson	Sampledby: M.	Johnson	Sampledby:	Sampledby:
PumpNa	N/A	PumpNa	N/A	PumpNiz	PunapNia
StartTimer	N/A	StatTime:	N/A	StartTime:	Start Time:
Stop Time:	N/A	Stop Time:	N/A	Stop Time:	Stop Time:
VinutesSamplect	N/A	MinutesSampled	N/A	MinutesSamplert	MinutesSampled
Start Flow Rate (LPM)	N/A	Stan How Rate (LPM)	N/A	Start How Rate (LPM)	Start How Rate (LPM)
Stop Flow Rate (LPM)	N/A	StopFlowRate (LPM	) N/A	Stop Flow Rate (LPM)	Stop How Rate: (LPM)
Avenge How Rate (LP	M) N/A	Average How Rate (L)	PM) N/A	Average Flow Rate (LPM)	Average How Rate (LPM)
Volume N/A	L	Votume: N/A	L	Volume: L	Volume L
DateAnalyzed	6/8/99	DateAnalyzed	6/8/99	DateAnalyzeci	DateAnalyzed
GaniculeFieldArea (	.00817	GeniculeFieldArea	0.00817	GanculeFieldArea	Graticule FeldAter
Total Fibers	0/100	Total Fibers:	0/100	Total Fibers	Total Fibras
Coefficient of Variation	N/A	Coefficient of Variatio	r N/A	Coefficient of Variation:	Coefficient of Variation.
Fibersion: N/A	f/ce	Fibers/cc: NI/A	f/cc	Fibers/cc. f/	Fibers/cc f/cc

Abbreviations

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airex haust, PA-postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

#### Comments

Analyzedby: Matthew Johnson

P.O. Box 216 Gladstone Oregon, 97027 Office: (503)557-2396 Fax:557-3025



CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-14

ATTN: Joe Simmons P.O. NO: Verbal

CONTRACTOR: Insulation Removal Specialist REPORT NO: 2

**PROJECT:** Willamette Primary School Lower Level Mechanical Room

PAGE NO: 1 OF 2

ample:IDNo: 1	SampleIDNox 2	SampleIDNox 3	SampleIDNo: 4
atomayNa MJ99-0362	LaboratoryNox MJ99-0363	LaboratoryNa MJ99-0364	LaboratoryNa MJ99-0365
Entrance of Airlock	Sample Location Exhaust of Neg Air Machine #17	SampleLocation 2' Inside of Mechanical Room	SampleLocation 2' In Front of SDP #1
AD	NAE	С	C
VorkPerformed Glove Bag Removal	WorkPerformed Glove Bag Removal	WorkPerformed N/A	WorkPerformed N/A
DateSampled 6/8/99	DateSampled 6/8/99	DaeSamplet 6/8/99	DateSampled: 6/8/99
ampledby: M. Johnson	Sampledby: M. Johnson	Sampletiby: M. Johnson	Sampledby: M. Johnson
umpiña HV-08	PampNa HV-03	Pumphia HV-08	PampNa HV-03
tanTime 20:45	StartTime 20:45	StarTime: 22:50	StartTime: 22:50
top Time 22:45	Step Time 22:45	StopTime 24:50	Stop Time: 24:50
financesSampled: 120	MinuesSamplet 120	MinutesSamplect 120	MinutesSamplect 120
Sant How Rate (LPM) 10	Start Flow Rate (LPM) 10	Start How Rate (LPM) 10	Start Flow Rate (LPM) 10
kopFlowRate(LPM) 10	StopFlowRate (LPM) 10	StopFlowRate (LPM) 10	Stop Flow Rate (LPM) 10
AverageRowRate (LPM) 10	Average Row Rate (LPM) 10	Average Row Rate (LPM) 10	Average How Rate (LPM) 1(
iotume 1200 L	Volume 1200 L	Volume 1200 L	Volume 1200 L
Dame.Amaiyzect 6/8/99	Dae Analyzet 6/8/99	DateAnalyzed 6/8/99	Date Analyzed 6/8/99
GraniculeFieldArez 0.00817	GaniculeFieldAter 0.00817	Canade FeldAtex 0.00817	GraticuleFieldArea 0.00817
Cotal Fibers: 10/100	Total Fibers 2/100	Total Fibers: 8/100	Total Fibers 7/100
Coefficient of Variation: 0.63	Coefficient of Variation: LOD	Coefficient of Variation: LOQ	Coefficient of Variation: LOC
Tibers/cc: <0.0039 f/cc	Fibers/cc: <0.0039 f/cc	Fibers/cc <0.0039 f/cc	Fibers/cc: <0.0039 f/cc

NAE-Negativenirextanst, PA-postabasementarensample, BG-Background, LOQ-LimitorQuantification, LOD-LimitorDetection

Comments <Sample calculated at Limit of Quantification (10 fibers/100 fields)

Analyzedby: Matthew Johnson

P.O. Box 216 Gladstone Oregon, 97027 Office: (503) 557-2396 Fax: 557-3025



CLIENT:West Linn-Wilsonville School DistrictTREJOBNO:1020-14ATTN:Joe SimmonsP.O.NO:VerbalCONTRACTOR:Insulation Removal SpecialistREPORTNO:2

PROJECT: Willamette Primary School Lower Level Mechanical Room PAGE NO: 2 OF 2

Methodofanalysis NICSH7400 Limitof Detection: 55Fibers. Limitof Quantification: 10.0 fibers. Specification Range: 100-f/mm2<1300 SampleiDNix SampleiDNor SampleIDNor SampleIDNot **B**1 **B**2 LaboratoryNa MJ99-0367 LaboratoryNor LaboratoryNa MI99-0366 LaboratoryNo: Sample Location Sample Location SampleLocation SampleLocation Blank Blank WorkPeriorment WorkPerformed WorkPerformed WorkPerformed N/A N/A DateSampled 6/8/99 DateSampled DateSampled DateSampled 6/8/99 Sampledby: Sampledby. Sampledby: Sampled by: M. Johnson M. Johnson PumpNa N/A PumpNa N/A PumpNa PumpNa StatTime StartTime Start Time: Start Time: N/A N/A Stop Time: StopTime Stop Time: Stop Time: N/A N/A MinutesSampled MinutesSamplect MinutesSampleci: MinutesSamplect N/A N/A Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) Start How Rate (LPM) N/A N/A Stop Flow Rate (LPM) Stop How Rate: (LPM) N/A Stop Flow Rate (LPM) N/A StopFlowRate (LPM) Average How Rate (LPM) Aveage How Rate (LPM) Average How Rate (LPM) Average How Rate (LPM) N/A N/A Volume Volume Volume Volume N/A N/A L L L L Date.Analyzect DateAnalyzed DateAnalyzed DateAnalyzed 6/8/99 6/8/99 GaniculeFieldArear 0.00817 GeniculeFieldAsex 0.00817 **GenereFeidAre**r GraticaleFieldArea Total Fibers Total Fibers: Total Fibers: Total Fibers 0/100 0/100 Coefficient of Variation Coefficient of Variation: Cuefficient of Variation: Coefficient of Variation N/A N/A Fibers/cc: Fibers/oc Fibers/cc: Fibers/cc: N/A f/cc f/cc f/cc N/A f/cc

Abbreviations:

AP-Areasample prior to abatement, AD-Area sample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airex haust, PA-post abatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments

Amiyzedy: Matthew Johnson

P.O. Box 216 Gladstone Oregon, 97027 Office: (503)557-2396 Fax: 557-3025



CLIENT:West Linn-Wilsonville School DistrictTREJOBNO:1020-44ATTN:Joe SimmonsP.O.NO:VerbalCONTRACTOR:Image: Contracting, Inc.REPORTNO:6PROJECT:Willamette PrimaryPAGENO:10F1

SampleIDNot	1	SampleIDNor	2	SampleiDNox	<b>B</b> 1	SampleIDNo:	B2
LaboratoryNo TN99-	0022	LaboratoryNor	<b>FN99-0023</b>	LaboratoryNor TI	N99-0024	LaboratoryNo: TI	N99-0025
Sample Location 10' to rht. fran drwy. entrag from blwy. ri AD	n. 16	Sample Location 10' to rht. fm entrng from AD	n drwy. hiwy. rm. 14	Sample Location Blank		Sample Location Blank	
WorkPerformed Glovebag		WorkPerformed Glov	vebag	WarkPerlamed N/	A	WorkPerformed N/2	A
DateSampled 7/	12/99	DateSamplect	7/12/99	DateSampled	7/12/99	DateSamplect	7/12/99
Sampledby: T.	Noel	Sampledby:	T. Noel	Sampledby:	T. Noel	Sampled by:	T. Noel
PumpNa H	V-06	PumpNa	HV-08	PumpNa	N/A	PumpNa	N/A
Start Time:	08:39	Start Time:	08:44	Start Time:	N/A	Start Time:	N/A
Stop Time:	11:40	Stop Time:	11:43	Stop Time:	N/A	Stop Time:	N/A
MinutesSampled	280	MinutesSampled	: 179	MinutesSampled	N/A	MinutesSamplect	N/A
Start How Rate (LPM)	10	Start Flow Rate (I	PM) 10	Start Flow Rate (LP	M) N/A	Start How Rate (LP	^{M)} N/A
StopFlowRate (LPM)	10	StopFlow Rate (I	LPM) 10	Stop Flow Rate (LP	M) N/A	StopFlowRate (LP	M) N/A
AveageFlowRate (LPM)	10	AverageFlowRa	e(LPM) 10	AvezageHowRate	(LPM) N/A	AverageHowRate	(LPM) N/A
Volume 2800	L	Volume 1	790 L	Votume: N/	'A L	Volume N/	A L
DateAnalyzed 7/	12/99	DateAnalyzed	7/12/99	DateAnalyzed	7/12/99	Date:Analyzed	7/12/99
GraniculeFieldArear 0.0	0817	GeniculeFieldAn	<b>0.008</b> 17	GaticuleFieldArea	0.00817	GaniculeFieldAter	0.00817
Total Fibers 3.	5/100	Total Fibers:	11.5/100	Total Fibers	0/100	Total Fibers:	0/100
Coefficient of Variation:	LOD	Coefficient of Va	niation: 0.6	Coefficient of Varia	tion: N/A	Coefficient of Varia	tion: N/A
Fibers/or <0.001	7 f/ee	Fibersion 0.	.0030 f/cc	Fibersioc: N/	A f/ee	Fibers/cc: N/	A f/co

AP-Areasample pionoabatement, AD-Areasampleduring abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airex haust, PA-postabatement areasample, BC-Background LOQ-Limit of Quantification, LOD-Limit of Detection

Comments <Sample calculated at Limit of Quantification (10 fibers/100 fields)

Analyzedby: Troy Noel

P.O. Box 216 Gladstone Oregon, 97027 Office: (503)557-2396 Fax: 557-3025



CLIENT:West Linn-Wilsonville School DistrictTREJOBNO:1020-44ATTN:Joe SimmonsP.O.NO:VerbalCONTRACTOR:IRSREPORTNO:5PROJECT:Willamette PrimaryPAGENO:1OF3

SampleIDNox	1	SampleiDNo	2	SampleiDNo	3	SampleIDNo:	4
LaboratoryNix TN99.	-0012	LaboratoryNor T	N99-0013	LaboratoryNo. T	N99-0014	LaboratoryNo T	N99-0015
SampleLocation: 15' E. of N. dr. ldn pkg. lot in rm. 17 AD	ng. to	Sample Location 10' from entr rm. 14 N. wa AD	ry door in all	SampleLocation Entrance to s restroom AD	girls	SampleLocation In rm. 16 on entry AD	E. walls by
WorkPerforment Glove bag vern pipe	tical	WorkPerformed Glove bag pi	g vertical pe	WorkPerformed Glovebas pi	g vertical pe	WorkPerforment Glovebag pi	g vertical pe
DateSampled	7/9/99	DateSampled	7/9/99	DateSamplect	7/9/99	DateSampled	7/9/99
Sampledby: T.	. Noel	Sampledby:	T. Noel	Sampledby:	T. Noel	Sampledby:	T. Noel
PumpNice H	IV-08	PimpNa	HV-06	PumpNa	HV-22b	PumpNa	HV-17
Stan Time	10:47	Start Time:	10:49	StatTime	10:57	Stat Time:	11:00
Stop Time:	2:03	Stop Time:	2:05	Stop Time:	2:05	Stop Time:	2:08
MinutesSamplect	196	MinutesSampled	196	MinutesSamplect	188	MinutesSamplect	188
Start How Rate (LPM)	10	Stan HowRate (L	PM) 10	Stan Flow Rate (L	PM) 10	Stan Flow Rate (LI	M) 10
Stop Flow Rate: (LPM)	10	Stop Flow Rate (L	PM) 10	Stop Flow Rate (L	PM) 10	Stop Flow Rate (L	PM) 10
Aveage How Rate (LPM)	10	AvezgeFlowRate	(LPM) 10	AverageFlowRate	:(LPM) 10	AverageHowRate	:(LPM) 10
Volume 1960	L	Volume 19	960 L	Volume: 18	380 L	Voiume: 18	80 L
DateAnalyzed	7/9/99	Date.Analyzed	7/9/99	Date:Analyzed	7/9/99	DateAnalyzed	7/9/99
GraniculeFieldArea: 0.0	00817	GanculeFieldAre	<b>0.00817</b>	CraticuleFieldAre	× 0.00817	GeniculeFieldAre	· 0.00817
Total Fibers 12.	.5/100	TotalFibers	15.5/100	Total Fibers:	6.5/100	TotalFibers	25.5/100
Coefficient of Variation:	0.58	Coefficient of Van	intion 0.53	Coefficient of Vari	ation: LOQ	Cuefficient of Van	ation: 0.44
Fiberson 0.0030	flee	Fiberson 0.0	0027 1/00	Fibers/oc	0025 1/00	Fibers/cc:	0064 f/cc

AP-Areasample prior to abatement, AD-Areasample during abatement, C-Clemance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative airections, PA-postabatement areasample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments <Sample calculated at Limit of Quantification (10 fibers/100 fields)

Analyzerby: Troy Noel

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CLIENT: West Linn-Wilsonville School District TRE JOB NO: 1020-14 Joe Simmons ATTN: P.O. NO: Verbal CONTRACTOR: IRS **REPORT NO: 5** 

**PROJECT:** Willamette Primary

PAGE NO: 2 OF 3

SampleIDNor	5	SamplefDNor	6	SampleIDNot	7	SampleIDNo:	8
LaboratoryNer TN99-1	0016	LaboratoryNox T	N99-0017	Laboratory Not T	N99-0018	Laboratory Nor T	N99-0019
SampleLocation		Sample Location:		Sample Location:		SampleLocation	
15' E. of N. door er	ıtr.	10' from entr	y door in	Entrance to g	pirts	In rm. 16 on	E. wall by
ldng. to pkg. in rm.	. 17	rm. 14 N. wa	dl l	restroom		entry	
AD		AD		AD		AD	
WorkPerformed	]	WorkPerformed		WorkPerformed		WorkPerformed	
Glovebag verti	cal	Glovebag	vertical	Glovebag	vertical	Glovebag	vertical
pipe		pi	be	pi	be	pi	be
DateSamplect 7	/9/99	DateSampled	7/9/99	DateSampled	7/9/99	DateSampled	7/9/99
Sampledby: T.	Noel	Sampled by:	T. Noel	Sampleciby:	T. Noel	Sampled by:	T. Noel
PampNa H	V-08	PumpNa	HV-06	PumpNa	HV-22b	PampNa	HV-17
Stant Time:	2:03	Stat Time:	2:05	Start Time:	2:05	StatTime:	2:08
Stop Time:	4:04	Step Time:	4:05	StopTime	4:05	Stop Time:	4:10
MinutesSamplect	121	MinutesSampled	120	MinutesSamplet	120	MinutesSampled	122
Stant How Rate (LPM)	10	Start How Rate (LP	M) 10	Start Flow Rate (LF	M) 10	Start Flow Rate (LP	M) 10
Stop How Rate (LPM)	10	Stop Flow Rate (LI	M) 10	Stop How Rate (LI	M) 10	Stop Flow Rate: (LF	M) 10
Average How Rate (LPM)	10	AveageFlowRate	(LPM) 10	AverageFlowRate	(LPM) 10	AveageRowRate	(LPM) 10
Volume 1210	L	Volume 12	00 L	Volume 12	00 [,] L	Volume 12	20 L
Date Analyzed 7	/9/99	Date Analyzed	7/9/99	DatcAnalyzed	7/9/99	Date.Analyzed	7/9/99
Granicule Field Area: 0.0	0817	GaniculeFieldArea	0.00817	<b>GaticuleFieldArea</b>	0.00817	Canicule Field Area	0.00817
Total Fibers: 10	0/100	Total Fibers	15/100	Total Fibers	13/100	Total Fibers	11/100
Coefficient of Variation:	0.63	Coefficient of Varia	tion: 0.54	Coefficient of Vari	ation: 0.57	Coefficient of Varia	nion: 0.61
Fibers/cc 0.0038	f/cc	Fibers/cc: 0.0	059 t/cc	Fibers/cc: 0.1	0057 f/cc	Fibers/cc: 0.0	)042 f/cc

AP-Areasample prior to abutement, AD-Areasample during abatement, C-Cenance, P-Personal sample from breathing zone, EL-Excussion limit. NAE-Negative airextrast.P.A-postable ementare a sample, BG-Background, LOQ-Limit of Quantification, LOD-Limit of Detection

Comments

Analyzedby: Troy Noel

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CLIENT:West Linn-Wilsonville School DistrictTRE JOB NO: 1020-44ATTN:Joe SimmonsP.O. NO: VerbalCONTRACTOR:IRSREPORT NO: 5PROJECT:Willamette PrimaryPAGE NO: 3 OF 3

SampleIDNr	B1	SampleIDNo	B2	SampleIDNoc	SampleIDNix
abaalaryNa TN	99-0020	LaboratoryNot T	N99-0021	LaboratoryNo:	LaboratoryNor
Sample Location: Blank		SampleLocation Blank		Sample Location	Sample Location
WaikPalamed N/A		WorkPerformed N	/A	WorkPeriomect	WorkPerforment
DateSampled	7/9/99	DateSampled	7/9/99	DateSamplect	DateSamplet
Sampied by:	T. Noel	Sampled by:	T. Noel	Sampled by:	Sampledby:
PumpNa	N/A	PumpNia	N/A	PumpNo	PumpNa
Start Time:	N/A	Start Time:	N/A	Stat Ture:	Start Time:
Stop Time:	N/A	Stop Time:	N/A	Stop Time:	Stop Time:
MinutesSamplect	N/A	MinutesSampled	N/A	MinuxesSamplect	MinutesSamplect
Stan Flow Rate (LPM)	N/A	Start Flow Rate: (L	PM) N/A	Stan How Rate (LPM)	Start How Rate (LPM)
Stop Flow Rate: (LPM	) N/A	Stop Flow Rate (L	PM) N/A	Stop Flow Rate (LPM)	Stop Flow Rate (LPM)
Aveage How Rae (L)	M) N/A	AverageFlowRate	(LPM) N/A	Average How Rate (LPM)	AvezgeRowRate (LPM)
Volume: N/A	L	Votume: N	/A L	Volume: L	Volume: L
DateAnalyzect	7/9/99	Date.Analyzed	7/9/99	DateAnalyzext	Date.Analyzect
GeniculeFieldAner	0.00817	GanculeFieldAre	× 0.00817	GeniculeFieldArea	Ganicule Field Area
Total Fibers	0/100	Total Fibers	0/100	Total Fibers.	Total Fibers
Coefficient of Variatio	¤ N/A	Coefficient of Var	ation: N/A	Coefficient of Variation:	Coefficient of Variation:
Fibers/cc: N/ A	<b>*/</b> 20	Fibers/cc: NI/	1 1/20	Fibers/cc: f/co	Fibers/cr: 1/c.c

AP-Areasample prior to abotement, AD-Areasample during abatement, C-Clearance, P-Personal sample from breathing zone, EL-Excursion limit, NAE-Negative aircraft and the provide the sample BC-Background LOQ-Limit of Quantification, LOD-Limit of Detection

Comments

Analyzedby: Troy Noel

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## SMALL SCALE SHORT DURATION

This section reflects requirements outlined in 40 CFR 763.91 and 763.95

The idea of small scale, short duration projects are jobs involving small quantities of asbestos. Generally, these are projects where the **primary intent** is not to disturb asbestos and if disturbed, worker exposure levels are not to exceed the **PEL** (0.1 f/cc).

### DEQ/EPA

DEQ described small scale short duration activities as maintenance work that does not require a certified supervisor to oversee the work. IF the maintenance work is less than 3 square or 3 linear feet of friable material at any one time then certification is not required, nor is notification to the Department. (OSHA still requires some training).

DEQ does require that all persons disturbing asbestos be certified if they are not doing maintenance work and/or they disturb more than 3 square or 3 linear feet of friable material at any one tie.

DEQ/EPA defines "small scale short duration activities" means a task for which the removal of asbestos is not the primary objective of the job, is less than 3 square or 3 linear feet, including, but not limited to:

- removal of small quantities of insulation on beams or above ceilings;
- replacement of a gasket on a valve;
- installation or removal of a small section of wallboard;
- removal of thermal system insulation not to exceed amounts greater than those which can be contained in a single glove bag.
- minor repair to damaged thermal system insulation which does not require removal
- repair to wallboard;
- replacement of a gasket on a valve;
- repair involving encapsulation, enclosure or removal, to small amounts of friable material in performance of emergencies of routine maintenance activity and not intended solely as asbestos abatement. Such work may not exceed amounts greater than those which can be contained in a single prefabricated mini-enclosure. Such an enclosure shall conform spatially and geometrically to the localized work area, in order to perform its intended containment function.

AHERA (schools K-12) defines small scale job according to EPA's definition listed above. Those activities that will fit inside a single glove bag or mini-enclosure; no more then 3 square or 3 linear feet of ACM. Neither a supervisor or clearances are required, but it does need to be recorded.

### **OR-OSHA/OSHA**

OR-OSHA does not really have a definition for small scale short duration activities that would be recognized as such by DEQ. OR-OSHA's versions of small scale short duration/maintenance activities could be classified as Class III, Class I, or Class II asbestos work.

IF a person is doing maintenance activities then it is **Class III** asbestos work. If a worker intends to disturb TSI or surfacing material, but it is not the primary purpose of the work, then they must use the general work practices outlined OR-OSHA asbestos rules 1926.1101 (g) (9).

- A competent person-who has complete a minimum 16-hour/AHERA type course. (However we are still bound by the DEQ that if we disturb more than 3 square/linear feet then certified supervisor/workers must be used.)
- OR-OSHA specifies that the following work procedure s can be used:
  - standard glovebags on straight runs of piping
  - negative air glovebags
  - negative air glove boxes
  - water spray process systems
  - negative air mini-enclosure
  - approved alternate methods
- OR-OSHA still requires than an adjacent equipment room or area to the regulated area be available for the decontamination of employees and their contaminated equipment. The area needs to be of appropriate size so as not to spread contamination and the floor covered with an impermeable drop cloth. A three chamber decontamination unit/hygiene facility is not required as long as the total work involves less than 25 linear or 10 square feet.

If a person intends to disturb TSI or surfacing material, then it is **Class I** asbestos work regardless of the size of the project. The worker must use the work practices outlined OR-OSHA asbestos rules 1926.1110 (g) (4) & (5).

- A competent person/a supervisor-who has completed an EPA/DEQ five day supervisor course.
- OR-OSHA specifies that the following work procedures can be used:
  - negative pressure exposure (NPE)
  - standard glovebags on straight runs of piping
  - negative air glovebags
  - negative air glove boxes
  - water spray process systems
  - negative air mini-enclosure
  - approved alternate methods
  - a three-chamber decontamination unit/hygiene facility is not required as long as the total work involves less than 25 linear or 10 square feet. An adjacent equipment room or area to the regulated area must be available for the decontamination area.

If a person intends to disturb asbestos material that is not TSI or surfacing material, the it is **Class II** asbestos work regardless of the size of the project. This includes flooring (vinyl, sheet vinyl, asphalt), roofing (shingles built-up, felts), cement asbestos (transite), gaskets, wallboard, construction mastics, etc.

- A competent person/a supervisor-who has completed an EPA/DEQ five day supervisor course. (However DEQ does not require a certified supervisor if the material is kept non-friable.)
- The worker must use the general work practices outlined OR-OSHA asbestos rule 1925.1101 (g) (7) & (8).

An adjacent equipment room or area to the regulated area must be available for the decontamination area. A three-chamber decontamination unit/hygiene facility is not required.

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## 7. OPERATIONS AND MAINTENANCE PLAN

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IV. FORMS

## I. INTRODUCTION

With the enactment of the Asbestos Hazard Emergency Response Act regulations, Local Education Agencies are charged with producing a plan of action that will facilitate the safe and effective management of asbestos materials in their school systems. The most effective way of managing the problem is to completely remove all asbestoscontaining materials from the building, thus removing the problem in its entirety. In some cases, however, this wholesale removal is not economically feasible or even desirable from a building usage standpoint. When asbestos-containing materials can not be completely removed, a comprehensive Operations and Maintenance Program as required by 40 CFR 763.91 will allow the local education agency to control the asbestos problem until removal of the materials is feasible.

### II. DEFINITIONS

Several definitions pertinent to an Operations and Maintenance Program are identified in 40 CFR 763.83. These are as follows:

Asbestos-Containing Material (ACM) when referring to school buildings means any material which contains more than one percent asbestos.

Asbestos-Containing Building Material (ACBM) means surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building.

Asbestos Debris means pieces of ACBM that can be identified by color, texture, or composition; or means dust, if the dust is determined by an accredited inspector to be ACM.

Operations and Maintenance Program means a program of work practices to maintain friable ACBM in good condition, to insure cleanup of asbestos fibers previously released, and to prevent further release by minimizing and controlling damage to friable ACBM.

Fiber Release Episode means any uncontrolled or unintentional disturbance of ACBM resulting in visible emissions. Friable, when referring to material in a school building, means that the material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously non-friable material after such previously non-friable material becomes damaged to the extent that, when dry, it may be crumbled, pulverized or reduced to powder by hand pressure.

High-Efficiency Particulate Air (HEPA) refers to a filtering system capable of trapping and retaining at least 99.97% of all non-dispersed particles 0.3 millimeters in diameter or larger.

*Removal* means the taking out or the stripping of substantially all ACBM from a damaged area, a functional space, or a homogeneous area in a school building.

Repair means returning damaged ACBM to an undamaged condition or to an intact state so as to prevent fiber release.

*Response Action* means a method, including removal, encapsulation, enclosure, repair, operations and maintenance, that protects human health and the environment from friable ACBM.

Routine Maintenance Area is an area, such as a boiler room or mechanical room, that is not normally frequented by students and in which maintenance employees or contract workers regularly conduct maintenance activities.

## III. PROGRAM ELEMENTS

### A. WORKER PROTECTION

40 CFR 763.91(b) serves to extend the protection provided by 40 CFR 763.121 (for worker protection during asbestos abatement projects) to employees of local education agencies who perform Operations and Maintenance and repair activities involving ACM who are not covered by the OSHA Asbestos Construction Standard 29 CFR 1926.58. This standard will be adhered to during all Operations and Maintenance or repair operations involving the disturbance of friable ACBM. During initial cleaning (and additional cleaning as necessary) of all buildings, those employees performing the cleaning will be supplied with and will use the following personal protective equipment:

<u>Disposable Coveralls</u> - a "Tyvek" brand or similar disposable coverall will be worn over the clothes to prevent capturing asbestos fibers on the clothing.

<u>Respirator</u> - an individual personalized respirator will be provided to all workers doing the cleaning. The respirator will be appropriately fit-tested to ensure that it functions effectively for that individual. Each respirator will be supplied with disposable cartridges approved for asbestos dust by NIOSH and will be worn at all times during the cleanup operation.

Following cleanup each day, all used disposable respiratory cartridges and coveralls will be disposed of in six-mil asbestos disposal bags.

#### **B. TRAINING**

Prior to the implementation of any Operations and Maintenance provisions of the Management Plan, all members of the maintenance and custodial staff who, during the performance of their duties, may work in a building containing ACBM will receive general awareness training of not less than two hours in duration. As well, similar training will be given to all new maintenance/custodial personnel within 60 days of their start date. As per 40 CFR 763.92 (a)(i-v), the accepted course for this level of training is "Developing an Operations and Maintenance Plan" given by Hall-Kimbrell Environmental Services, Inc., 4840 West 15th Street, Lawrence, Kansas, 66044, and will include as a minimum:

- Information on asbestos, its forms, and uses.
- Information on the health affects of asbestos exposure.
- Locations of ACBM in the school buildings in which they work.
- Recognition of damage, deterioration, and delamination of ACBM.

- Name and telephone number of the LEA person designated to carry out LEA responsibilities under 40 CFR 763.84.
- Availability and location of the Management Plan.

All members of the maintenance/custodial staff who are likely to conduct any activities that may disturb ACBM will receive the previously described general awareness training and an additional 14 hours as required by 40 CFR 763.92 (2)(i-iv). The accepted course for this level of additional training is "Operations and Maintenance Training" given by Hall-Kimbrell Environmental Services, 4840 West 15th Street. Lawrence, Kansas, 66044, and will include as a minimum:

- Descriptions of proper methods of handling ACBM.
- Information on the use of respiratory protection as contained in the EPA/NIOSH Guide to Respiratory Protection for the Asbestos Abatement Industry, September 1986 (EPA 560-OPTS-86-001), and other personal protective equipment and measures.
- The provisions of the following pieces of legislation:
  - 40 CFR 763.91, Appendices A, B, C, D of Subpart E
  - EPA regulations in 40 CFR Part 763, Subpart G
  - EPA regulations in 40 CFR Part 61, Subpart M
  - OSHA regulations in 29 CFR 1926.58
- Hands-on training in the use of respiratory protection, other personal protective equipment and measures, and good work practices.

All types of training will emphasize the necessity to not disturb ACBM or assumed ACBM during routine maintenance activities. Employees will be instructed on the following at a minimum:

- Avoid performing any activities on ACM or assumed ACM that may cause abrasion or physical deterioration of the material. This includes sanding, nailing, drilling, cutting, or otherwise damaging the material.

- Avoid damaging ACM during maintenance activities <u>NOT</u> directly involving the ACM such as installing drapes, carpets, moving furniture, etc.
- To always use a HEPA-vacuum and wet methods to clean up asbestos dust or debris. <u>NEVER</u> use a regular vacuum or drv method.
- To avoid any activities that may inadvertently release asbestos fibers into the air such as removing ventilation filters, drying and/or shaking the filters, and removing suspended ceiling tiles below ACM without taking the proper precautions and using the proper personal protective equipment.

#### C. INITIAL CLEANING

In accordance with 40 CFR 763.91, all buildings under the direction of the School District will undergo an initial cleaning process prior to commencing with any response actions, with the exception of Operations and Maintenance and detailed in the Inspection repair, as Report/Management Plan Data. The initial cleaning will be done in all areas of all buildings where friable ACBM, damaged or significantly damaged thermal system ACM, or friable suspected ACBM assumed to be ACM, were determined to be present following the completion of an inspection, sampling and analysis program performed in accordance with 40 CFR 763.85 through 40 CFR 763.87.

The following procedures will be followed for the initial cleaning of all appropriate areas of each building:

- 1. All carpets will be HEPA vacuumed and/or steam cleaned.
- 2. All horizontal surfaces including sills, frames, door tops, wall protrusions, signs, air vents, suspended light fixtures, and other immovable fixtures will be HEPA vacuumed. Following HEPA vacuuming, the same areas will be wet cleaned in order to remove any residual fibers not picked up during the vacuuming process.
- 3. All walls will be wet wiped, except for those with sprayed-on or trowelled-on materials or with other applications with high liquid absorption potential.

- 4. All uncarpeted floors will be wet mopped.
- 5. All debris, filters, wer mop heads, dustmops, cloths, etc., will be sealed, while still wet, in leak-tight containers. Disposal containers will be six-mil polyethylene bags labelled in such a fashion that they illustrate their usage as asbestos storage containers. These bags will be kept in a single location, in a routine maintenance area in each building and will always be kept closed and tied. When the bag becomes full, it will be tied shut and placed into another six-mil bag and tied again. Full bags will be placed in a 55gallon steel or fiberboard drum. When full, the drum will be transported to an EPA-approved asbestos landfill site and the material will be disposed of as asbestos-containing waste.

#### D. ADDITIONAL CLEANING

In all areas where friable ACM exists, normal daily cleaning procedures will be altered as necessary to ensure that fiber entrainment in the air will be minimized. Sweeping and dry mopping will not be allowed in areas containing friable ACM. Until all ACM is removed from ceilings. etc., all daily mopping will be carried out with dampened, disposable mop heads. These mop heads will not be used in asbestos-free areas and will be changed at the end of the day and disposed of as asbestos-contaminated waste in six-mil polyethylene disposal bags. In addition, certain areas will receive additional cleaning on a regular basis as per the O&M supplement at the end of this section.

#### E. OPERATIONS AND MAINTENANCE ACTIVITIES

1. Small-Scale, Short Duration Activities and Minor Fiber Release Episodes

Appendix B to Subpart E of 40 CFR 763.91 defines small-scale, short duration maintenance activities as, but not limited to:

- Removal of ACM insulation on pipes
- Removal of small quantities of ACM insulation on beams or above ceilings
- Removal of ACM gaskets on a valve

- Removal or installation of a small section of drywall
- Installation of electrical conduits through or proximate to ACM.

Small scale is further subdefined in Appendix B of Subpart E as:

- Removal of small quantities of ACM <u>only</u> if required as part of maintenance activity not intended as asbestos abatement
- Removal of ACM thermal system insulation in quantities no greater than can be contained in one glove bag
- . Minor repairs to damaged thermal system insulation requiring no removal.
- Repairs to ACM wallboard
- Repairs involving encapsulation. enclosure, or removal, to small amounts of friable ACM <u>onlv</u> if required in performance of an emergency or a routine maintenance activity not intended as asbestos abatement. The work may not exceed amounts greater than those which can be contained in a single prefabricated mini-enclosure. This enclosure must conform spatially and geometrically to the localized work area, in order to perform its intended containment function.

Section 40 CFR 763.91 (f)(i) defines a minor fiber release episode as the falling or dislodging of less than or equal to three square or linear feet of friable ACBM.

During the process of performing small-scale, short duration asbestos renovation or maintenance tasks, the following procedures will be utilized:

- The area will be isolated with physical barriers, whenever possible, restricting entry only to those persons necessary to perform the task. Warning signs will be posted at all entry points to the area.
- All HVAC ducts, windows, and other sources of air circulation to the area will be sealed. Where necessary, the air handling systems will be shut off or modified to meet this need.
- If a fiber release has occurred, the entire area will be precleaned using those techniques described in Section C. under

*initial Cleaning*. HEPA vacuum and/or wet methods will always be employed for any type of cleaning. All workers directly involved with the cleaning will always use the prescribed personal protective equipment.

- All objects in the area will be removed from the area to protect them from contamination during the maintenance activity. Where it is not possible or feasible to move the objects, the objects will be completely covered with six-mil polyethylene plastic sheeting prior to commencement of the maintenance activity. This will include all fixtures and other components that exist in the immediate work area.

- Next, a layer of six-mil polyethylene plastic sheeting will be placed on the floor beneath the item or area affected by the maintenance activity. This sheeting will be at least one foot wide and long for each foot above the floor where the work is to be conducted, but will not under any circumstances, be less than six feet by six feet. When the work area is confined by walls, the plastic sheeting will extend up the walls at least one foot, and will be sealed along the top edges with duct tape.

- All work activities involving the ACM will be performed using wet methods, HEPA vacuums, glove bags, mini-enclosures. and/or protective clothing as appropriate to the maintenance activity. These methods are detailed in Section E-3 of Operations and Maintenance Activities.

- All repair work done on the damaged or affected ACM will be done with materials such as asbestos-free spackling, plaster, cement, or insulation. The existing ACM affected by the maintenance activity will be sealed with latex paint or an encapsulant, or the appropriate response action as identified in the Management Plan will be implemented.

- All asbestos-containing debris will be saturated with amended water and sealed in double six-mil polyethylene disposal bags. These bags will be labelled as ACM and will be disposed of at an EPA approved landfill site. All plastic, duct tape, etc., used to cover objects, floors, etc., will be treated as asbestoscontaminated waste and will be disposed of in like manner.

#### 2. Maintenance Activities other than Small Scale, Short Duration and Major Fiber Release Episodes.

Section 40 CFR 763.91 (f)(2) defines a major fiber release episode as the falling or dislodging of more than three square or linear feet of friable ACM.

For those maintenance activities other than small scale, short duration or for a major fiber release episode, all response actions will be designed by persons accredited to design response actions and conducted by persons accredited to conduct response actions.

Regardless of the response action designed for the specific activity or repair, the areas involving the work will be sealed off and restricted with signs posted, and prepared for the work in a manner consistent with the procedures outlined for small-scale short duration activities in Section E-1 of Operations and Maintenance Activities.

#### 3. ACM Removal Procedures

#### a. Wet Methods.

Regardless of the removal method employed, wet methods will always be used where practical during any maintenance activity that involves the disturbance of ACM. In some cases, wet methods will not be employed (working on live electrical equipment, for example) and this will be determined prior to the commencement of the activity.

At all times, amended water will be used as the wetting agent. Amended water is water that has a surfactant added that restricts evaporation and enhances the penetration of the water into the ACM. Commercially available products such as those containing a concentrate of a 50-50 mixture of polyoxyethylene esters and polyoxyethylene ethers with three percent emulsifier will be used. These products will be added to normal tap water and used as per manufacturer's instructions.

Amended water will be applied to all ACM using an airless sprayer to minimize disturbance of the ACM. During the maintenance or repair activity, the material will continue to be wetted, as needed, to ensure that all ACM is wet during the activity and remains wet until final disposal.

#### b. Glove Bag Techniques

The glove bag techniques will be used for removal of ACM on small scale activities mainly involving pipes, valves, Tees, fixtures, or other small components of mechanical systems as detailed in Appendix B of Subpart E of 40 CFR 763. Prior to installation and use of the glove bag, signs will be posted and the work area will be sealed off and prepared as detailed in Section E-1 of Operations and Maintenance Activities. The worker(s) performing the glove bag operation will be equipped with a disposable Tyvek-type suit and a personal respirator equipped with disposable cartridge filters NIOSH approved for use with asbestos dust.

After performing all preparatory work and donning personal-protective equipment, the glove bag is cut along the sides to fit around the pipe or fixture to be worked on. All tools necessary to perform the work, as well as a quantity of bridging encapsulant, are inserted into the attached inside pocket of the bag.

The glove bag is then attached around the work area by folding the open edges together and sealing with staples and tape. The side edges of the glove bag are then sealed using duct tape and/or Velcro ties to form a tight seal. The bottom seam of the bag is also taped to ensure its integrity. Once a tight seal is obtained. the end of a smoke tube is inserted through the marked entry port and a small amount of smoke is squeezed into the bag. After tape sealing the port (and removing the smoke tube), the bag is gently squeezed to allow the smoke to exit through any available leak holes. Leaks identified in this way are sealed with more duct tape, the entry port is opened, and the bag is squeezed lightly to remove excess smoke. Next, the portable sprayer nozzle is put through the port and the work area is completely wetted with amended water. The nozzle is removed and the HEPA vacuum hose is inserted into the port and sealed tightly with duct tape.

The worker's arms are inserted into the armholes and gloves and the ACM is removed from the work area. When necessary, the amended water spray nozzle is inserted into the bag during removal to ensure that the ACM is kept wet at all times.

When all necessary ACM is removed and the item cleaned of all visible material, a spray nozzle from the encapsulant sprayer is inserted and the pipe fixtures, etc., are sprayed with encapsulant. The rough edges of the cut ACM are then coated/sealed with the bridging encapsulant.

The worker then removes his arms from the armholes and turns on the HEPA vacuum, to remove air from the bag. As the air is being removed from the bag, the bag is squeezed near the top, and twist sealed and taped closed. The HEPA vacuum is turned off, the nozzle removed, and the entry port is sealed tightly. Then the bag is cut along the top and removed from the working area, then placed in a six-mil polyethylene bag for disposal with other contaminated waste materials.

#### c. Mini-Enclosures

This methodology is employed in areas where glove bags are not practical, such as for the removal of asbestos from a small ventilation system or a short length of duct as detailed in Appendix B of Subpart E of 40 CFR 763.

The mini-enclosure will vary in construction, shape, and size, depending upon the specific requirements of an individual activity. In general, all minienclosures will be constructed according to the following criteria:

- The structure will consist of six-mil polyethylene plastic sheeting supported by a preconstructed framework of 2" by 4" studs formed around the work area. The plastic will be stapled and taped to the framework. Two layers of sheeting will be used, one attached to the studs on the inside of the minienclosure and the other on the outside.

- The structure will be minimized in size so as to allow entry to only the number of workers directly involved with the maintenance activity. Where possible, the number of workers will be restricted to one or two maximum.
- The floor inside the mini-enclosure will be covered with two layers of sixmil plastic and will extend no less than one foot up each wall where it will be tape sealed to the wall's plastic. All penetrations into or through the mini-enclosure, such as pipe runs, will be sealed with duct tape.
  - A small change room (approximately three feet by three feet by seven feet) will be constructed contiguous to the mini-enclosures. Entry to the change room and from the change room to the mini-enclosure will be through double plastic-sheeted entryways. The first layer of plastic in the entryway will be sealed to the doorway at the top and on the right side, the second layer will be sealed at the top and on the left side.
- After completing the maintenance or repair activity, the worker will enter the change room, HEPA vacuum his disposable coveralls, and remove them prior to leaving the change room. He will then wet wipe his respirator, leaving it on until exiting the change room.
- During the ACM removal, the workers will wear protective and dual cartridge coveralls NIOSH-rated respirators for Wet methods of asbestos dust. removal using amended water will be used at all times in the minienclosure. As in glove bag removal,

following the removal of ACM the working areas will be sprayed with encapsulant and exposed cut ACM will be coated with a bridging encapsulant when appropriate.

- Next, all debris in the mini-enclosure will be placed in double six-mil polyethylene bags labelled appropriately for disposal of ACM. The bags will be wet cleaned before removal from the work area through the change room. All interior surfaces of the mini-enclosure will then be cleaned using HEPA vacuum and or wet cleaning techniques.
- Inside the mini-enclosure, the air will be sprayed with water using an airless sprayer. The worker will start at the top and spray the entire volume down to the floor level in order to remove any airborne asbestos fibers prior to dismantling the mini-enclosure.
- The worker will then proceed to the change room and HEPA vacuum his coveralls and clean and spray the room in the same fashion as the mini-enclosure. He will then wet wipe his respirator while still wearing it, HEPA-vacuum and remove his coveralls, and exit the change room.
- The mini-enclosure will then be dismantled from the outside by removing the plastic and bundling it inwards, rolling it, and placing it in a six-mil bags, labelled for asbestoscontaminated waste and disposed of appropriately. The 2" by 4" studs will be dismantled and stored for further use.
- Following the dismantling of the mini-enclosure the worker removes his respirator and disposes of the cartridges as asbestos-contaminated waste.

#### F. WASTE DISPOSAL

All asbestos-containing waste material is doublebagged in six-mil polyethylene plastic bags. These bags are preprinted to show that they contain aspestos-containing material. Asbestos waste is kept in a controlled location in a routine maintenance area of the facility. Filled bags of waste are carried to this area and placed in sealable metal or fiber 55-gallon drums. When the drums are full, they are sealed, labelled, and transported to a landfill site approved for asbestos by EPA. Upon arrival at the landfill site, the bags are removed from the drums and handed over to the landfill operator. The drums are wet wiped and returned to the school for re-use. The drums are not re-used if, upon opening, it is observed that one or more of the bags has ruptured inside of the drum. In this case, the drum is resealed and disposed of along with all bags inside of it.

The waste containers are transported to the landfill site in a covered, lockable vehicle and all transported containers are accompanied by a proper chain of custody form that details the origin of the material, date and quantities of transport, types of containers and destination of containers. If transported by a third party hauler, information on the hauler is also included on the form. The chain of custody form is signed at each transfer point and after final transport to the landfill site, a copy of the form is maintained in our records as evidence of receipt at the site. A sample copy of this form is included.

Prior to any transportation of asbestos-containing material, notification will be made to the following parties:

- 1. Regional US EPA office written notification will be sent detailing the name and location of the landfill site to be used and the approximate weight and volume of asbestos involved.
- 2. EPA Certified Landfill Site Prior to each transport the landfill supervisor will be notified of the weight and volume of the material, the expected date and time of arrival at the site, and the types of containers to be transported.

#### G. RECORDKEEPING

Permanent records will be kept regarding Operations and Maintenance activities in facilities under the control of the LEA. These include:

- 1. Whenever any cleaning activity as prescribed in 40 CFR 763.91 (c) is undertaken records will contain the name of the individuals performing the cleaning, the dates of the cleaning, the locations cleaned, the methods utilized, and any other information pertinent to that particular cleaning episode. A copy of the O&M Cleaning Report Form is attached.
- 2. Whenever Operations апу and Maintenance activity is undertaken as outlined in 40 CFR 763.91 (d) records will contain the name and duties of each person involved; the start and completion date and time of the activity; the locations where the activity occurred; a description of the activity; preventive measures used: amount (if any) of ACM removed; and the name and location of the storage or disposal site for the ACM. A copy of the Small-Scale O&M Activity Report Form is attached.
- 3. Whenever a major activity as described in 40 CFR 763.91 (e) is undertaken, records will indicate the name, signature, state of accreditation, and accreditation number of each person involved; the start and completion date and time; the locations where the activity occurred; a description of the activity; preventive measures used; whether ACBM was removed; and the name and location of the storage or disposal site for the removed material. A copy of the Major O&M Activity Report Form is attached.
- 4. For every fiber release episode described in 40 CFR 763.91 (f), the records will detail the date, time, and location of the episode; the method of repair; preventive measures or response action taken: the names of those persons doing the work; whether ACBM was removed; and the name and location of the storage or disposal site for the removed material. A copy of the Fiber Release Episode Report Form is attached.
- 5. Copies of all inspection reports, results and amendments will be kept in the file with the Operations and Maintenance Program and activity reports. This also includes results of any re-inspections or

periodic surveillance as prescribed in 4) CFR 763.85 (b) and 40 CFR 763.92 (b).

- o. Current lists of all custodians and maintenance personnel including name, address, date of hire, asbestos training course, and dates, as well as copies of certificates from any special related courses taken by the employees. A copy of the Maintenance/Custodial Staff Training Report Form is attached.
- 7. A current list of all areas where asbestos removal, enclosures, or encapsulation has taken place. A copy of the Asbestos Abatement Activity Record Form is attached.
- 8. A current inventory of equipment available for Operations and Maintenance activities.
- 9. Copies of ACM disposal records and/or chain of custody documentation.

All records will be maintained in a single location at the LEA site. Copies of all records and information pertinent to individual facilities will also be maintained at those facilities by the designated campus asbestos coordinator.

#### H. WARNING LABELS

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Warning labels will have been attached immediately adjacent to any friable and nonfriable ACBM and assumed ACM located in routine maintenance areas as per 40 CFR 763.95. The labels will be of a size, print, and color which is readily visible to persons entering an area containing ACBM. The labels will read as follows:

**********

CAUTION

### ASBESTOS HAZARDOUS

DO NOT DISTURB WITHOUT PROPER

#### TRAINING AND EQUIPMENT

**********

#### I. BUILDING INVENTORY - ALL ACM

See "List of School Buildings and ACM Status" in Section: Management Plan Introduction.

#### J. PERIODIC SURVEILLANCE

All facilities will undergo a semi-annual surveillance in order to detect deterioration taking place on any ACM in the facility. This will consist of a visual evaluation of the materials and specific records will be maintained detailing the material type, damage, or deterioration noted, as well as any repair or response action undertaken. This semi-annual surveillance will be performed utilizing the protocol defined in the "plan for periodic surveillance" in the management plan.

#### K. EMERGENCY RESPONSE

In the event of the occurrence of an asbestosrelated emergency in a facility under the direction of the LEA, the following procedures will be employed:

- 1. Immediately upon notice of the emergency, the party involved will vacate the area of involvement and immediately contact the LEA Coordinator and/or his designee at the facility.
- 2. If the person(s) observing the incident is trained to handle ACM activities, that person(s) will take action to immediately isolate the area of involvement from the rest of the building by evacuating any unnecessary personnel from the area, turning off or isolating all air-moving equipment in the area, isolating the area by closing all entryways, and posting warning signs indicating the presence of a hazardous area.
- 3. If the person(s) observing the incident is not trained to handle ACM activities, that person will immediately contact a member of the staff who has the appropriate training and alert that person to the problem. The trained staff member will then proceed to take the actions indicated in 2.

- 4. If the occurrence is of such a size that a response action must be designed by an accredited designer, no further work will be done and the area will remain isolated as in 2. until the appropriate response action can be determined. Otherwise, the appropriate repair/maintenance activity will commence following the performance of the procedures detailed in Section E-1 of Operations and Maintenance Activities.
- 5. Following completion of the repair/maintenance activities, the appropriate forms will be completed as per Section G-7 Recordkeeping. These forms will become a part of the permanent Operations and Maintenance records.

### L. EQUIPMENT LIST

An Operations and Maintenance Plan involves "specialized" equipment and supplies to resolve and/or control the problems. The materials can be purchased from a number of asbestos or industrial safety supply houses and some can be found in hardware stores. The following materials and equipment are commonly associated with successful operations and maintenance planning.

#### OPERATIONS AND MAINTENANCE PLANNING MATERIALS AND EQUIPMENT LIST

- 1. Tyvek disposable coveralls
- 2. Rubber gloves
- 3. Half-face dual cartridge negative pressure respirators with NIOSH-approved cartridges
- 4. Safety goggles
- 5. Surfactant
- 6. Misting spray bottle
- 7. Misting spray tank
- 8. Dust mop/broom
- 9. Polyethylene sheeting (six-mil)
- 10. Asbestos disposal bags (six-mil)
- 11. Fiber or metal disposal drums
- 12. Glove bags
- 13. HEPA Vacuum with attachments
- 14. Duct tape
- 15. Hand tools
- 16. Warning signs and labels
- 17. Scrim cloth for pipe wrap
- 18. Foil tape for pipe wrap
- 19. Encapsulant bridging and penetrating
- 20. Smoke tube kits

### OPERATIONS AND MAINTENANCE PLANNING COST AND MATERIALS CHECKLIST

	PURC	IHASED	PER B	UILDING
ITEMS	Initial	Ongoing	Unit Cost	Quantity
Disposable Tyvek Coveralls w/Hood Bottles X-large				
Rubber gloves				
Half-face negative pressure dual cartridge respirators				
Respirator filters				
Safety goggies				
Surfactant				
Misting spray bottle				
Misting spray tank				
Polyechylene sheeting (six-mil)				
Asbestos disposal bags (six-mil)				
Fiber disposal drums				
Glove bags				
HEPA vacuum with attachments: vacuum bags vacuum filters cone attachment				
Vacuum bags				
Vacuum filters				
Cone attachment				
Duct tape		•		
Hand tools				
DANGER: ASBESTOS signs & labels				
Scrim cloth for pipe wrap				
Foil tape for pipe wrap				
Encapsulant - penetrating - bridging				
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#### M. AIR MONITORING

A requirement of 40 CFR 763.91 is that the LEA ascertain, through monitoring or historical data, the airborne concentration of asbestos fibers during all maintenance and repair activities involving ACBM or assumed ACBM. Coverage of EPA's worker protection rule at 40 CFR 763.121 is extended to maintenance and custodial staff at schools who perform Operations and Maintenance activities.

These regulations establish a Permissible Exposure Limit (PEL) of 0.2 fibers per cubic centimeter  $(f/cm^3)$  over 8-hours for abatement project workers and an action level of 0.1  $f/cm^3$  that, once met or exceeded, triggers a number of required work practices including air monitoring, regulated work areas, engineering and work practice controls, respiratory protection, protective clothing, hygiene facilities and practices, training, medical surveillance and recordkeeping.

In response to the requirement of these regulations, 8-hour "time weighted average" air sampling will be conducted in all routine maintenance areas and in general occupancy areas of all buildings so that initial background concentrations of asbestos resulting from the existence of the ACBM may be determined. As well, during any small-scale, short-duration maintenance activity involving ACM, air monitoring will be performed as follows:

- Personal samples will be collected from the breathing zone of the employee(s) performing the maintenance activity.
- Area samples will be collected in the vicinity of the maintenance activity so that a determination may be made of the level of contamination expected to be produced in surrounding areas as a result of the activity.

All air monitoring will be done in accordance with 40 CFR 763.121 including collection on 0.8 micrometer 25-millimeter filters mounted in an open-face filter holder and analysis using the NIOSH 7400 method. The samples will be taken for the determination of the 8-hour time weighted average concentrations and ceiling concentrations of asbestos fibers. Following analysis of the air filters, results of all analyses will be recorded on the O&MMaintenance Activity form for inclusion in the Operations and Maintenance Program's permanent records. A copy of the Air Monitoring Data and Log is attached.

#### N. MEDICAL MONITORING

Medical monitoring is required for all employees working on or around ACBM where exposure is likely to exceed the OSHA action level of 0.1  $f/cm^3$ , 8-hour TWA during the course of work. This is required through 40 CFR 763.91's extension of Epa's Worker Protection Rule at 40 CFR 763.121 to maintenance and custodial staff at schools who perform operations and maintenance activities.

This medical monitoring program will be provided to all persons at the cost of the LEA as required by the regulations. The program will consist of the following elements:

- Preplacement Examination will be provided within 30 days of commencement of employment and will include a medical history, chest X-ray, and pulmonary function test as per 40 CFR 763,121(J)(2).
- Annual Examinations will be provided at least annually and will include medical history, chest X-ray, and pulmonary function tests as per 40 CFR 763.121(J)(3).
- Termination Examination will be provided within 30 days pre or post termination date and will include medical history, chest X-ray, and pulmonary function tests as per 40 CFR 763.121(J)(4).

Where determined by medical examination that an individual cannot work while wearing a respirator, that person will not be required or allowed to perform maintenance activities involving ACBM. Medical records will be maintained in the personnel files and be made available to the Environmental Protection Agency, the Assistant Secretary of Labor for Occupational Safety and Health, the Director of NIOSH, authorized physicians, and upon the request of the employee (or former employee) to his physician. All records will be maintained for at least 20 years as required by 40 CFR 763.121(f)(6).

#### OPERATIONS AND MAINTENANCE CODES

The following codes are intended for use as reference to the general requirements for Preventive Measures by material types. The codes are referenced in the inspection results location of the Management Plan and are presented here for convenience.

The codes given are for all friable ACBM and non-friable ACBM that have the potential to become friable during school maintenance activities involving the material. In all cases, the description of activities in the Operations and Maintenance Codes refers back to the specific requirements detailed in the Operations and Maintenance program and 40 CFR 763.

#### OMA - Pipe Insulations and Mudded Joint Fittings

Work area preparation and cleaning must in accordance with the requirement of 40 CFR 763.91(d).

Repair minor dents and tears in the protective jacket with duct tape or bridging encapsulant with glass cloth reinforcement. Duct tape should only be used for temporary control until the bridging encapsulant is installed.

For small-scale, short-duration activities, if glove bag removal is not feasible, wrap uncovered pipe insulation with protective jackets consisting of a bridging encapsulant with glass cloth reinforcement. If a glove bag is used, it must be used in accordance with Section E-3 of Operations and Maintenance Activities.

Wrap moderately water damaged or contact damaged pipe insulations with new protective jackets, or re-insulate affected areas. Eliminate the source of the water damage. Any activity other than small-scale, short-duration requires design by a person accredited to design response actions. The activity must be undertaken by those accredited to perform them. Therefore, those types of activities will not be undertaken on a routine basis.

Monitor the condition of the asbestos-containing materials, under procedures outlined in the "Plan for Periodic Surveillance" located in the Management Plan.

Clean area. as necessary, using procedures detailed in Section D of Additional Cleaning.

## OMB - Insulation on Boilers, Breeching, Ducts, etc.

Work area preparation and cleanup must be in accordance with the requirements of 40 CFR 763.91 (d).

Repair minor dents and tears in insulation on boilers and breeching with a bridging encapsulant with glass cloth reinforcement. Duct tape or nonasbestos mastic should only be used for temporary control until the protective jacket is applied.

Wrap uncovered insulations with new protective jackets or coverings consisting of a bridging encapsulant with glass cloth reinforcement.

Minor damage to duct work insulated with ACM should be repaired with a bridging encapsulant with glass cloth reinforcement. Duct tape or nonasbestos mastic should only be used for temporary control until the protective jacket is applied.

If any small-scale removal is required as a part of the repair process or maintenance activity, then a glove bag or mini-enclosure must be used as described in Section E-3 of Operations and Maintenance Activities. Clean the area, as necessary, using procedures detailed in Section D of Additional Cleaning.

Monitor the condition of the asbestos-containing materials, under procedures outlined in the "Plan for Periodic Surveillance" located in the Management Plan.

#### OMC - Fireproofing

Work area preparation and cleaning must be in accordance with the requirements of 40 CFR 763.91(d).

The fireproofing may be sprayed with an encapsulant if the fireproofing is well-bonded to its substrate and is less than one inch thick. This is to be considered a temporary control measure with a life expectancy of five to six years. Test results have shown that, due to the impact of the spray, spraving with an encapsulant can, on occasion, cause more fibers than a gross wet removal project. ACM removal, enclosure or encapsulation, can only be performed if it is classified as a small-scale, short-duration maintenance activity NOT intended as asbestos abatement as defined in Appendix B to Subpart E of 40 CFR 763.91. In cases where the activity is not small-scale, the activity must be designed and performed by an accredited person.

Use caution when work involved hanging ducts, conduit or pipes, etc. from surfaces sprayed with fireproofing. Avoid disturbing fireproofing whenever possible.

All materials must be monitored as detailed in the section "Plans for Periodic Surveillance" located in the Management Plan.

Clean the area, as necessary, using procedures detailed in Section D of Additional Cleaning.

## OMD - Acoustical Plasters (Sprayed On/Trowelled On)

If the plaster is in good condition, with no delamination, deterioration or signs of water damage, it should be left alone but carefully monitored for signs of change in status. This must be performed as detailed in the "Plan for Periodic Surveillance" in the Management Plan.

If the plaster is water damaged and/or is becoming delaminated from the substrate, it should be removed rather than encapsulated. Encapsulation can make the condition worse by increasing the rate of delamination. The source of the water damage must be eliminated. Unless the required removal is a part of a required smallscale, short-duration maintenance activity then the removal/repair must be designed and performed by an accredited person. Avoid disturbing acoustical plaster by not hanging plants, drilling holes in the ceiling, moving furniture, etc. Work area preparation and cleanup for all types of maintenance work must be in accordance with the requirements of 40 CFR 763.912(d). When the plaster must be disturbed, mist the affected area with amended water and use a HEPA vacuum to collect fibers being released.

All materials must be monitored as detailed in the section "Plans for Periodic Surveillance" located in the Management Plan.

Clean the area. as necessary, using procedures detailed in Section D of Additional Cleaning.

#### OMF - Debris

Work area preparation and cleanup must be in accordance with the requirements of 40 CFR 763.91(f) for minor fiber release episodes (three square or linear feet or less of friable ACM).

Small amounts can be cleaned up using a HEPA vacuum and wet wiping or set mopping. Dispose of larger pieces by misting and carefully moving the pieces to an asbestos disposal bag to be properly discarded. Repair of the damaged material that resulted in the debris must be performed as per 40 CFR 763.91 (f)(iv).

#### OMG - Ceiling Tiles

Work area preparation and cleanup must be in accordance with the requirements of 40 CFR 763.91(f) for minor fiber release episodes (three square or linear feet or less of friable ACM).

When ceiling tiles are noted as asbestoscontaining materials, precautions can be taken to greatly minimize exposure from the tiles.

Whenever the tiles are cut, broken, or damaged, they should be disposed of properly and replaced by new tiles. Replacement tiles must be asbestos free. Tiles should never be broken to fit into an asbestos disposal bag. Any activity other than small-scale, short-duration maintenance activities must be designed and performed by an accredited person. All materials must be monitored as detailed in the section "Plans for Periodic Surveillance" located in the Management Plan.

#### OMH - Tape/Woven Paper

Work area preparation and cleanup must be in accordance with the requirements of 40 CFR 763.91(f).

Asbestos-containing tape is used primarily for sealing seams on duct work. Loose or frayed ends of the tape must be wetted with amended water, cut, and properly disposed. Care must be taken not to damage the tape by ripping or tearing it during this procedure.

Damaged tape should be carefully painted with a bridging encapsulant with minimal overspray or overbrushing. When the tape must be disturbed, mist it with amended water (unless the disturbance is due to the encapsulation process) and use a HEPA vacuum to collect fibers being released.

#### OMI - Miscellaneous/ Cementitious Materials

Fiber release from cementitious (non-friable) materials is normally extremely low, unless these materials are broken, drilled, sanded or otherwise disturbed. During disturbance, the material should be thoroughly dampened and a HEPA vacuum used to collect fibers being released. Work area preparation and cleanup must be in accordance with 40 CFR 763.91(d). Some examples of cementitious materials that may contain asbestos are:

- Floor tiles
- Tile underlay
- Wall plasters (some)
- Transite pipes
- Scratch coats
- Drywall plaster (some)
- Transite panelling
- Linoleum
- Asbestos cement pipes

#### OMZ - Other Materials

This code applies to miscellaneous ACM that rarely creates a significant problem but can pose an exposure risk when being damaged or removed. Listed are some of the asbestoscontaining materials that fall into this classification. If an asbestos-containing material is not directly addressed in the operations and maintenance codes, ап operations and maintenance procedure may be applied using one or more of the codes that involve similar materials. All disposal must be in accordance with Section F of Waste Disposal.

Batt Insulation - Cutting or tearing the asbestoslayered paper backing can cause fiber release. Wet the backing with amended water and wear a half-face respirator if batting needs to be cut or moved.

Friable Wallboard - Precautions must be taken to minimize exposure from the wallboard. Replace broken or damaged wallboard with a non-asbestos material. If removal is necessary, wet the material and try to remove it in one piece. The wallboard must never be broken up to fit into an asbestos disposal bag.

Vibration Joint Cloth - Vibration joint cloth is most often found on duct work near air handlers. Loose or frayed ends should be wet with amended water or a diluted encapsulant. Carefully cut and remove the joint cloth and dispose of properly.

Earth Floors - When mechanical insulations located in crawl spaces or tunnels deteriorate or are damaged, the earth floors beneath them can become contaminated. Often the asbestos materials are broken up and ground into the loose earth by maintenance workers performing work in these areas. All work involving contaminated soil must be designed and performed by accredited persons.

Vinyl Asbestos Floor Tiles (VAT) - Damaged, vinyl floor tiles can become friable and could present a problem when a small-scale, short-duration maintenance activity requires removal of small areas of VAT, work area preparation and cleaning must be in accordance with 40 CFR 763.91 (d). Mix amended water to a slightly stronger than normal strength. Spray the entire surface of the tiles to be removed, wait six to eight hours and repeat the spraying. Most vinyl asbestos tile glues are water soluble and the tiles will loosen so that they may be physically removed, placed in a sealed plastic bag, and disposed of as asbestos waste. When the tiles are loose, the ends will curl up or under. Always dispose of the paper underlay material with the VAT, as it usually contains asbestos. In most cases, VAT removal will be designed and performed by accredited persons.

#### INITIAL/ADDITIONAL CLEANING RECOMMENDATIONS

(Supplement to O&M Plan)

This section is provided as a supplement to the Operations and Maintenance Plan included in this document, as required by 40 CFR 763.91 (c) and 763.93 (e)(9).

The AHERA regulations require that each LEA which after inspection was found to contain areas with friable ACBM, damaged or significantly damaged thermal system insulation ACM, or friable suspected ACBM assumed to be ACM, the area(s) will be asbestos cleaned at least once after the completion of the inspection and before the initiation of any response action other than O&M Procedures or repair. The procedures for the required cleaning are found in 40 CFR 41852; however, a more detailed description is found in the body of the O&M Plan, "Initial Cleaning".

Hall-Kimbrell and the accredited Management Planner agree with the EPA to the need for a thorough asbestos cleaning of the areas described above. That initial cleaning measure is necessary in order to collect and remove as much of the settled asbestos dust and fibers as possible that have been deposited over the past months or years. However, all materials containing asbestos should not be treated equally under this provision. since depending on the material's degree of friability, accessibility, asbestos content, condition, and other variables, the amount of asbestos contamination in and around the area will vary greatly. The accredited inspector performed an assessment of the materials taking into consideration these and other variables which contribute to the likelihood/probability of routine or accidental fall out and possible building occupant exposure. The relative degree of exposure potential and, therefore, past fall out probability are inter-related in that a material whose damage category has been determined to

be damaged or significantly damaged has a very high probability of having produced a higher degree of area contamination than a similar material with a rating of "potential for damage".

In order to aid the school district in understanding the relative degrees of exposure and/or contamination potential and probability. Hall-Kimbrell has provided three (3) priority ranking categories. Hall-Kimbrell's recommendation for cleaning in and around the areas is as follows:

#### Priority 1 Materials/Areas

- A) Initial cleaning as described in the O&M Plan as soon as feasible but in no event later than July 9, 1989.
- B) Additional cleaning as was performed initially at least once every two months until materials are abated.

#### Priority 2 Materials/Areas

- A) Initial cleaning as described in O&M Plan no later than July 9, 1989. NOTE: For economic efficiency, the LEA should perform the initial cleaning at the same time as the Priority I materials/areas are cleaned.
- B) Additional cleaning, as was performed initially, at least once every six months thereafter until materials are abated.

#### Priority 3 Materials/Areas

Since these materials are either non-friable ACBM, non-friable assumed ACM, or other wellbound miscellaneous material with a low likelihood of exposure potential or contamination under routine use, Hall-Kimbrell does not feel that initial nor additional cleaning is absolutely necessary. However, since past renovations, remodeling, or other possible disturbance may have occurred and unknown to Hall-Kimbrell the school district should use its best judgement based on past activities in determining whether these Priority III materials should be treated otherwise.

#### LEA Response to Cleaning Recommendations

The AHERA regulations require that the LEA provide a response to the management planner's cleaning recommendations. If you agree with the recommendations provided and agree to conduct the necessary cleaning based on the schedule recommended indicate by checking the first block. If you do not agree and plan to carry out an alternative, additional cleaning schedule, please indicate by checking the second block and provide a description of the cleaning plan the LEA will perform.

- I do agree with the recommendations and cleaning schedule and will carry out the plan according to that schedule.
- X I do not agree with the recommended schedule for additional cleaning and elect the following:

Initial cleaning will be performed prior to the initiation of any response act other than O&M or repair. Additional cleaning will be performed when it is deemed necessary by the LEA.

Bv: LEA Designated Person: Signature

Samuel Nut Name low

By: Management Planner

Signature

<u>John Newlin</u> Name

## OPERATIONS AND MAINTENANCE PROGRAM

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FORMS

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#### ASBESTOS ABATEMENT ACTIVITY RECORD*

Cistrict Name: ______ Campus Name: ______

LEA Asbestos Coordinator. Phone:

Euilding	Abatement	Abatement	Extent of	Abatement	Date of	Abatement	All ACM
Name	Location	Method	Abatement	Contractor	Abatement	Cast	Removed
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* This record includes all asbestos abatement undertaken that was not associated with a small-scale maintenance activity

## MAINTENANCE/CUSTODIAL STAFF TRAINING RECORD

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Campus Name:______ Building Name:_____

Name	Oate	Training	Location	EPA	Duration	Dates	Refre	sher Co	urses
	of Hire	Received		Accred.	(hours)	Taken	Date	Date	Date
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ACM WASTE DISPOSAL

	CHAIN OF CUSTODY RECORD	
Campus	Building:	
Aspestos Coordinator	Address.	Phone
	Material Summary	
Material Origin:	Cate of Release	
Container Type(s):	Quantity:	
Total No. of Containers:	Total Quantity: Volume	Weight
Crums Sealed: Yes Bags Doubled & Tied: Yes Containers Labeled: Yes	No Not Applicable	
	Material Destination	
Name of Landfill Sile:	Address:	
Landfill Site Supervisor:	Phone:	

it NO, Explain:

#### CHAIN OF CUSTODY

Relinquished By	Date and Time	Received By	Date and Time	Carrier
Relinquished By	Date and Time	Received By	Oate and Time	Carrier
Relinquished By	Oate and Time	Received By	Date and Time	Carrier
Relinquished By	Oate and Time	Received By	Date and Time	Carrier

-

## O & M CLEANING REPORT

Campus:_____ Euilding:_____ Locations:_____ Date(s):_____

## Staff Assigned

Name	Title	Duties			
<u></u>					

### Cleaning Methods

Location	Methods Used			
Comments:				

Signature:

## SMALL-SCALE O & M ACTIVITY REPORT

Campus:		Building:			
Location:		Cate: Time:	start/ /	stop	
	Maintenan	ice Activity			
Description of Activity:	· <u></u>				
ACM Removed: YES / N Disposal/Storage Site: Address:	IO Quantity:		Removal M Site Supvr: Phone:	ethod:	
	Equipment/Preve	entive Measur	res	······································	
<ul> <li>Area Isolated</li> <li>Tyvek Suits</li> <li>Disposal Bags</li> <li>Encapsulant-Bridging</li> <li>Enclosure</li> <li>Tools and Repair Materials-</li> </ul>	Signs Posted [ Respirators [ Disposal Drums [ Encapsulant-penetr.[ Giove Bag List All	HEPA Va Goggles Duct Tap Minienclo Amendeo	Cuum [ e [ bsure [ d Water [	Isolate Air Handler Poly sheeting Tools(detail below Change Room Repair Materials(detail)	s ) etail below)
	Staff A	ssigned			
Name	Title		D:	ıties	Date/Time start finish
Further Action Necessary	y:				

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## FIBER RELEASE EPISODE REPORT

Campus:		Building:				
Location:		Date:	Tin	ne:		
Description of Episode:				·····		
Type of Episode(Major or	Minor):			_		
Person Identifying Episod	e:					
Method of Repair / Respo	Correctiv	/e Action				
ACM Removed: YES / No	0 Quantity:		Removal Meth	10d:		
Disposal/Storage Site:Site Supvr: Address:Phone:						
	Equipment/Preve	ntive Measure	25	······································		
Area Isolated	Signs Posted	HEPA Vac	uum	Isolate Air Handlers	i	
Tyvek Suits	Respirators	Goggies		Poly sheeting		
Disposal Bags	Disposal Orums	Duct Tape		Tools(detail below)		
Encapsulant-Bridging	apsulant-Bridging 🔲 Encapsulant-penetr. Minienclosure 🗌 Change Room					
Enclosure	Enclosure Glove Bag Amended Water Repair Materials(detail below)					
Gross Removal(attach in	fo on contractor, and all	activity detail	s)	Notify Asbestos Co	ordinator	
Tools and Repair Materials-L	ist All					
		·				
	Staff A	ssigned				
Name	Title	Accreditatio State	n(if applic.) Number	Duties	Date/Time start finish	
				<u> </u>		
Further Action Necessary	:					
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Comments:	······				· · · · · · · · · · · · · · · · · · ·	
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## MAJOR O & MACTIVITY REPORT

Campus:		Building:	···		
Lecation:		Date: Time:	start////////	stop	
	Maintena	nce Activity	······································		
Response Plan Designe	r:	State of Acc	cred./Accred	. #:	/
Description of Activity:		<del></del>			
ACM Removed: YES / N	NO Quantity:_		Removal Me	thod:	
Disposal/Storage Site:		. <u> </u>	Site Supvr		
Address:			Phone:		
	Equipment/Prev	entive Measure	95	· · · · · · · · · · · · · · · · · · ·	
Area Isolated	Signs Posted	HEPA Vac	սստ [	Isolate Air Handlers	:
Tyvek Suits	Respirators	Goggles		Poly sheeting	
Oisposal Bags	Disposal Drums Duct Tape Tools(detail below)				
Encapsulant-Bridging	Encapsulant-penetr.	. Minienclo	sure	Change Room	
Enclosure	🗌 Glove Bag	Amended	Water	Repair Materials(de	tail below)
Gross Removal(attach	info on contractor, and a	Il activity detail	s)		
Tools and Repair Matchals	-List All				
			······································		
				- <u>-</u>	
	Staff	Assigned			
Name	Title	Accred State	ditation Number	Duties	Date/Time start finish
Further Action Necessar	y:				
Comments:					

Supvr Signature:_____

--

## POSSIBLE RESPONSE ACTIONS



FRIABLE SURFACING, TSI OR FRIABLE MISCELLANOUS ACM WITH POTENTIAL FOR DAMAGE (CAT. 2) (CAT 5) (CAT 6)



DAMAGED FRIABLE SURFACING OR DAMAGED FRIABLE MISC. ACM (CAT 2),(CAT 1)


Decision Tree for Determination of Physical Assement Categories



#### **Physical Assement Categories**

- Cat 1 : Damaged or Significatly damaged thermal system insulation ACBM
- Cat 2 : Damaged friable surface ACBM
- Cat 3 : Significantly damaged friable surfacing ACBM
- Cat 4 : Damaged or significantly damaged friable miscellaneous ACBM
- Cat 5 : ACBM with potenial for damage
- Cat 6 : ACBM with potential for significant damage
- Cat 7 : Any remaining friable ACBM or friable suspected ACBM

THIS IS TO CERTIFY THAT

#### **JEFF SMITH**

HAS ATTENDED

## ABATEMENT PROJECT DESIGNER REFRESHER TRAINING COURSE

Expiration date: 9/24/92

Course date: 9/24/91

Course location: Seattle, WA

Certificate:	PDR-91-7811
يتصبع يتسجي سيرج مسيها	صور الانتيام بين تشريبات كالمحد التي التي المريد المريد المريد المريد

Social Security #: 543-92-7811



ENVIRONMENTAL BUILDING CONSULTANTS INC. PORTLAND, OREGON This refresher course certificate is given in conjunction with the original course certificate.

#### THIS IS TO CERTIFY THAT

#### **JEFF SMITH**

HAS ATTENDED

### ABATEMENT PROJECT DESIGNER REFRESHER TRAINING COURSE

Expiration date: 9/24/93

Course date: <u>9/24/92</u>

Course location: Seattle, WA

Certificate	PDR-92-7811
Commodio.	101-72-7011

Social Security #: 543-92-7811



ENVIRONMENTAL BUILDING CONSULTANTS INC. PORTLAND, OREGON This refresher course certificate is given in conjunction with the original course certificate.

#### THIS IS TO CERTIFY THAT

#### **JEFF SMITH**

#### HAS ATTENDED

#### ABATEMENT PROJECT DESIGNER REFRESHER

#### **TRAINING COURSE**

Expiration date: 09/24/94

Course date: 09/24/93

Course location: <u>Seattle</u>, <u>Washington</u>

Certificate: RF-93-7811

Social Security #: _543-92-7811



ENVIRONMENTAL BUILDING CONSULTANTS, INC AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

For verification of the authenticity of this certificate contact: PBS Environmental 1220 S.W. Monison, Portland, OR 97205 (503) 248-1939

#### THIS IS TO CERTIFY THAT

## **JEFF SMITH**

HAS ATTENDED

#### AHERA ASBESTOS PROJECT DESIGNER REFRESHER

#### TRAINING COURSE

Expiration date: <u>09/23/95</u>

Course date: ____09/23/94____

Course location: <u>Kent, Washington</u>

Certificate: RF-94-7811

Social Security #: <u>543-92-7811</u>



ENVIRONMENTAL BUILDING CONSULTANTS, INC AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

For verification of the authenticity of this certificate contact: PBS Environmental 1220 S.W. Morrison, Portland, OR 97205 (503) 248-1955

#### THIS IS TO CERTIFY THAT

### JEFF SMITH

#### HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE for ASBESTOS ABATEMENT PROJECT DESIGNER REFRESHER

Course date: 09/22/95

Course location: Seattle, Washington

Certificate: PDR-95-7811

Social Security #: <u>543-92-7811</u>

For verification of the authenticity of this certificate contact: PBS Environmental 1220 SW Morrison, Portland, OR 97205 (503) 248-1939



Expiration Date: ____09/22/96___

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

This refresher course certificate is given in conjunction with the original course certificate.

Lavid Alove

A.H.E.R.A.		
THIS IS TO CERTIFY THAT		
JEFFERY SMITH		
HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE for ASBESTOS ABATEMENT PROJECT DESIGNER <b>REFRESHER</b>		
Course date: 09/18/96   Course location: Seattle, Washington   Certificate: PDR-96-7811   Social Security #: 543-92-7811	Expiration Date:09/18/97 AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Sub- stance Control Act (TSCA)	
For verification of the authenticity of this certificate contact: PBS Environmental 1220 SW Morrison, Portland, OR 97205 (503) 248-1939	This refresher course certificate is given in conjunction with the original course certificate.	

Certificate of Completion

This is to certify that Jeffrey L. Smith

has satisfactorily completed 8 hours of refresher training in

## **Project Designer**

in compliance with TSCA Title II AI-IERA Accredited



()lln Training Administrator

Exp. Date: Sep 17, 1998



Cert. # 97-3993 Conducted at: Pac Pro Safety Holiday Inn / Portand, OR

ezani Associates, inc. • 330 Sixth Avenue North, Sulle 200 • Seattle, Washington 98109 • (206) 281-8858

Certificate of Completion

This is to certify that Jeffrey Smith

has satisfactorily completed 8 hours of refresher training as a

### **Project Designer**

in compliance with TSCA Title II AHERA Accredited



Cert. # 98-08188 Conducted at: Pac Pro - Portland OR

Prezant Associates. Inc. • 330 Sixth Avenue North, Suite 200 • Seattle, Washington 98109 • (206) 281-8858

Aug 28, 1998

Lectore Administrator

Exp. Date: Aug 28, 1999

25 Prezant

# **Certificate of Completion**

This is to certify that Jeffrey Smith has satisfactorily completed One day of refresher training as a Project Designer

> in compliance with TSCA Title II AHERA Accredited

Aug 28, 1999

Training Coordinator

Exp. Date: Aug 27, 2000



Cert. #991785 Conducted at: Three Rivers Environmental, Inc. Gladstone, OR

Prezant Associates, Inc. • 330 Sixth Avenue North, Suite 200 • Seattle, Washington 98109 • (206) 281-8858

@ GOES 748

# **Certificate of Completion**

This is to certify that Jeff Smith has satisfactorily completed 4 hours of refresher training as a Building Inspector

> in compliance with TSCA Title II AHERA Accredited

Sep 23, 1999

Training Coordinator Exp. Date: Sep 22, 2000



Cert. #99-1930 Conducted at: PacPro - Gresham, OR

WING ORGAN

KNORTHWEST'S

Prezant Associates, Inc. • 330 Sixth Avenue North, Suite 200 • Seattle, Washington 98109 • (206) 281-8858

U GOE S 745

## Certificate of Completion

This is to certify that Matthew Johnson

has satisfactorily completed 4 hours of refresher training as a

## **Building Inspector**

in compliance with TSCA Title II AHERA Accredited



Iraining Administrator

Exp. Date: Aug 24, 1999



Cert. # 98-08182 Conducted at: Pac Pro - Portland OR

WING ORG

Prezant Associates, Inc. • 330 Sixth Avenue North, Suite 200 • Seattle, Washington 98109 • (206) 281-8858

CASTAN CASTANTA

Certificate of Completion

This is to certify that Matthew Johnson

has satisfactorily completed

3 days training as a

## **Building Inspector**

in compliance with TSCA Title II/AHERA Accredited

Nov 17 - 19, 1997 Conducted at: Pac Pro Safety @ Pony Soldier Inn

Training Administrator

**&** Prezant

nt Associates, Inc. • 330 Stath Avenue North, Suite 200 • Seattle, Washington 98109 • (206) 281-885

ORTHWESTS ISTOR

Exam Date: Nov 19, 1997

Exp. Date: Nov 19, 1998

LITHO IN U.S.A.