Phase IV

U.S. Army - Fort Monmouth

Volume 2B - Building Reports for a Comprehensive Asbestos Survey in Various Buildings at Fort Monmouth, New Jersey

Contract Number DACA51-91-D-0028

May 1993

Prepared for:

U.S. ARMY - FORT MONMOUTH Directorate of Engineering and Housing Fort Monmouth, New Jersey 07703 Prepared by:



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BUILDING REPORTS FOR A COMPREHENSIVE ASBESTOS SURVEY IN VARIOUS BUILDINGS AT FORT MONMOUTH, NEW JERSEY

CONTRACT NO. DACA51-91-D-0028

VOLUME 2B

PHASE IV

May 1993

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1 INTRODUCTION

INTRODUCTION

1.1 GENERAL

This document represents Volume 2B for the Phase IV Asbestos Survey conducted at the U.S. Army installation at Fort Monmouth, New Jersey. Work was performed under Contract No. DACA61-91-R-0039 administered by the Directorate of Engineering and Housing (DEH) - Fort Monmouth.

This volume presents the individual building reports for each of the buildings inspected under the above-listed contract. Where applicable, each building report includes a discussion of the findings and recommendations, a sample location floor plan, sample photographs, and the following tabulated data:

- Table 1 Bulk Sample Analysis Results
- Table 2 Quantification of Asbestos-Containing Materials
- Table 3 Other Asbestos-Containing Materials
- Table 4 Exposure Assessments (Priority Order)
- Table 5 Cost Estimate

A complete discussion of terminology, survey and exposure assessment methodologies, costestimating approach, and general operations and maintenance recommendations is provided in the accompanying Phase IV Report Guide Document. The Phase IV Report Guide Document also contains a complete prioritized exposure assessment list covering all buildings inspected under the Phase IV Asbestos Survey, as well as other important management summaries.

1.2 LIMITATIONS OF THE SURVEY REPORTS

Asbestos surveys in all buildings were conducted by experienced EPA/AHERA-certified Asbestos Building Inspectors in accordance with EPA guidelines and generally accepted professional practices. These surveys were limited strictly to asbestos-containing materials (ACM). No review of other hazardous materials or potential problems was conducted.

The building reports describe only the conditions of the ACM at the time the surveys were conducted. The condition of ACM may change gradually or suddenly, depending on maintenance, accident, or deterioration of building components.

While it is believed that all ACM has been identified and quantified with acceptable accuracy, unanticipated or hidden conditions could possible be uncovered during renovation, repair, or demolition activities. Any new suspect materials uncovered during these activities should be handled as ACM until proper sampling and analysis can be conducted.

CREDIT UNION

1006.1 GENERAL

Building 1006 was surveyed by WESTON's inspection team on 27 August 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. All three samples were found to be nonasbestos-containing materials (non-ACM).

The location, description, and analytical results for each of the bulk samples from Building 1006 are presented in Table 1006.1.

1006.2 CONCLUSION

Based on the survey and the laboratory results of the samples collected in Building 1006, WESTON concludes that accessible areas of Building 1006 do not contain ACM.

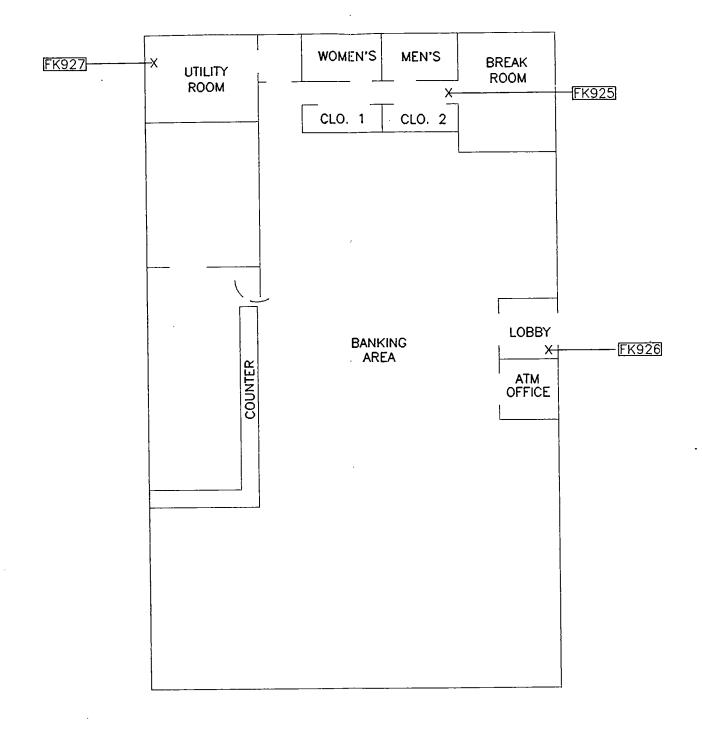
TABLE 1006.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1006, CREDIT UNION

SAMPLE				PERCE	NT ASBE	STOS	_
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK925	BREAK ROOM /HALLWAY	CEILING BOARD	TAN,OTH,ACOUST TIL			-	YES
FK926	LOBBY- ATM	CEILING TILE	WHITE,OTH,ACOUST TIL	-	-	-	YES
FK927	UTILITY ROOM	<4" PIPE FITTING	WHITE,UNK,PIPE FITT.	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		



BLDG. 1006

NOT TO SCALE





INFORMATION CENTER

1010.1 GENERAL

Building 1010 was surveyed by WESTON's inspection team on 26 August 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 1010.1 lists the analytical results for the bulk samples.

1010.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1010 are presented in Table 1010.1. An area-by-area inventory of ACM is provided in Tables 1010.2 and 1010.3. "Other Asbestos-Containing Materials," listed in Table 1010.3, are materials that do not correspond to the standard caption categories listed in Table 1010.2. A prioritized listing of exposure assessments is presented in Table 1010.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1010.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1010.2 and 1010.5.

1010.3 RECOMMENDATIONS/CONCLUSIONS

• Floor tile was the material in Building 1010 found to be ACM.

	Asbestos-containing floor tile present in Building 1010 should be labeled under the O&M Program.					
	·					
. ·			·			
		· ·				
	•					

TABLE 1010.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1010, INFO. CENTER

SAMPLE				PERCE	NT ASBI	<u>ESTOS</u>	
NO.	LOCATION	ITEM	DESCRIPTION	СН	AM	OT	LAYERED
FK922 C	CLOSET	FLOOR TILE	TAN,OTH,FLOOR TILE	3	-	-	YES
	IANITOR'S CLOSET	EXPANSION JOINT(S)	GRAY,OTH,EXPAN JTS	-	-	-	NO

 $^{^{\}mathbf{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 1010.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 1010, INFO. CENTER

	PI	PE_FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14 ¹¹	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
CLOSET	-	-		-	_	-	_	-	-	0.01	-	-	•
CLOSET 2A & 2B	-	•	-	-	-	-	-	-	•	0.04	-	-	-
ITCHEN	-	-	-	-	-	-	-	-	-	0.16	-	•	-
OFFICE 2	-	-	-	-	-	-	-	-	-	0.38	-	- '	-
OFFICE 3	-	-	-	-	-	-	-	-	-	0.15	-	• I	-
OPEN OFFICE	-	-	-	-	-	-	-	-	-	1.11	-	•	-
AULT						<u></u>			-	0.15			
TOTALS	_	_	-	-	_	-	_	_	-	2.00	-	-	

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 1010.3

Other Asbestos-Containing Material - Building 1010, Info. Center Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other A	Asbestos-Containing Material Found in th	nis Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1010.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1010, INFO. CENTER

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EXI	POSI	URE	FA	CTORS	AVG. EXP.	*	1
NO.	AREA	ТҮРЕ	CODE	NUMBER	1_	2	3	4	5	HOURS	ASB.	
FK917	FIRST FLRENTIRE	CEILING BOARD	A	0	3	1	1	1	20	40.00	0	
FK923	JANITOR'S CLOSET	EXPANSION JOINTS	Ä	Ō	3	1	1	1	1	6.00	0	

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

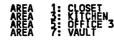
Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 1010.5 COST ESTIMATE* - BUILDING 1010, INFO. CENTER

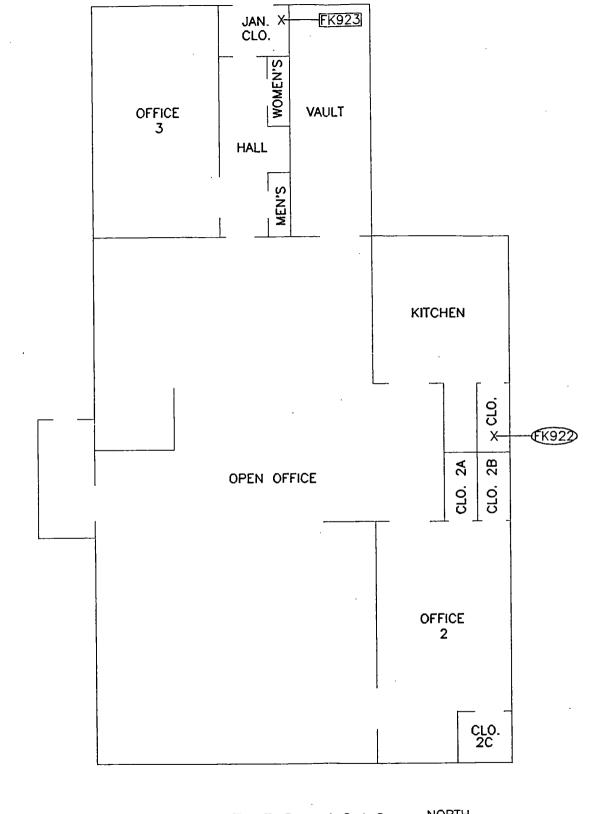
DESCRIPTION	UNIT COST (\$)	AREA	AREA	AREA	AREĄ	AREA	AREA	AREA	TOTAL	
Pipe Fittings (EA)								_		
4-8" 9-74" >14"	70.30 85.80 147.80 216.00	-	-	:	=	:	:	-	-	
	216.00	-	•	•	-	-	-	-	-	
Pipe Runs (LF)	26.50	-	-	-	-	-	-	-	-	
5-8" 5-14" 5-14"	26.50 30.50 42.50 60.80	=	=	:	-	-	-	-	-	
	60.60	_	-	-	_	-	_			
Sprayed/Troweled Ceilings (SF)	9.60	-	-	•	-	•	-	-	-	
Floor Tile (SF)	5.60	**	0.2	0.9	2.2	0.8	6.2	0.8	11.2	
Boilers/Tanks (SF)	37.90	•	-	-	-	-	-	-	-	
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	_	
Other		•	-	-		-	-	-	-	
SUBTOTAL		**	0.2	0.9	2.2	0.8	6.2	0.8	11.2	
Difficulty Allowance		•	-	0.4	1.1	0.4	3.1	-	5.1	
SUBTOTAL		**	0.2	1.3	3.2	1.3	9.3	0.8	16.3	
Decontamination Units Mobilization		8:3	8:4	8:3	8:3	8: 4	8:4	8: 4	3:8	
SUBTOTAL		0.8	0.9	~ 2.1	3.9	2.0	10.0	1.6	21.3	
Contingency a 15.00%		0.1	0.1	0.3	0.6	0.3	1.5	0.2	3.2	
SUBTOTAL		0.9	1.1	2.4	4.5	2.3	11.5	1.8	24.4	
Design Fee a 10.00%	,	**	0.1	0.2	0.5	0.2	1.2	0.2	2.4	
SUBTOTAL		1.0	1.2	2.6	5.0	2.5	12.7	2.0	26.9	
Air Monitoring a 10.00%	***	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2.7	
TOTAL		1.4	1.5	3.0	5.4	2.9	13.1	2.4	29.6	



^{*}Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 1010 NOT TO SCALE





HOSPITAL BOILER HOUSE

1076.1 GENERAL

Building 1076 was surveyed by WESTON's inspection team on 26 August 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze five samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 1076.1 lists the analytical results for the bulk samples.

1076.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1076 are presented in Table 1076.1. An area-by-area inventory of ACM is provided in Tables 1076.2 and 1076.3. "Other Asbestos-Containing Materials," listed in Table 1076.3, are materials that do not correspond to the standard caption categories listed in Table 1076.2. A prioritized listing of exposure assessments is presented in Table 1076.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1076.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1076.2 and 1076.5.

1076.3 RECOMMENDATIONS/CONCLUSIONS

Floor tile was the material in Building 1076 found to be ACM.

•	Asbestos-containing flo Program.	or tile in Buildin	g 1076 should b	e labeled under the C	0&M
				•	
				·	
		·			

TABLE 1076.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1076, HOSPITAL BOILER HSE.

SAMPLE				PERCI	<u>ent asbi</u>	<u>estos</u>	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK916	MEZZANINE	BOILERS/TANKS	WHITE,OTH,BLR/TNK IN	•	-	-	YES
FK918	MEZZANINE	BOILERS/TANKS	WHITE,OTH,BLR/TK INS	•	-	- `	YES
FK919	BOILER AREA	OTHER MATERIAL	WHITE, OTH, BLR HDR IN	-	-	-	YES
FK920	OFFICE	FLOOR TILE	TAN,OTH,FLOOR TILE	1	-	-	NO
FK921	MEZZANINE	OTHER MATERIAL	GRAY,OTH,EXH INSUL	-	-	-	NO

 $^{^{\}mathrm{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SF = Southeast		

TABLE 1076.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 1076, HOSPITAL BOILER HSE.

	P1		INGS (EA)			PIPE RU			SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<u> </u>	4-8"	9-14"	>14"	<4"	4-8"	<u>9-14" _</u>	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
OFFICE	-					-			<u> </u>	0.15			
TOTALS	-	-	-	-	-		_	-	-	0.15		<u>-</u>	

^{*} Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 1076.3

Other Asbestos-Containing Material - Building 1076, Hospital Boiler House Type Occupancy: Adults (Public)

. Area	Material Type	Quantity (Unit)
No Other A	Asbestos-Containing Material Found in th	nis Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 1076.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1076, HOSPITAL BOILER HSE.

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EXP	OSUF	E F	CTORS	AVG. EXP.	*
NO.	AREA	TYPE	CODE	NUMBER	1 1	2 3	4	5	HOURS	ASB.
FK916	MEZZANINE	BOILERS/TANKS	Α	0	3 2	2 1	1	4	40.00	0
	MEZZANINE	BOILERS/TANKS	Ä	Ö	3	2 1	1	4	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 1076.5 COST ESTIMATE* - BUILDING 1076, HOSPITAL BOILER HSE.

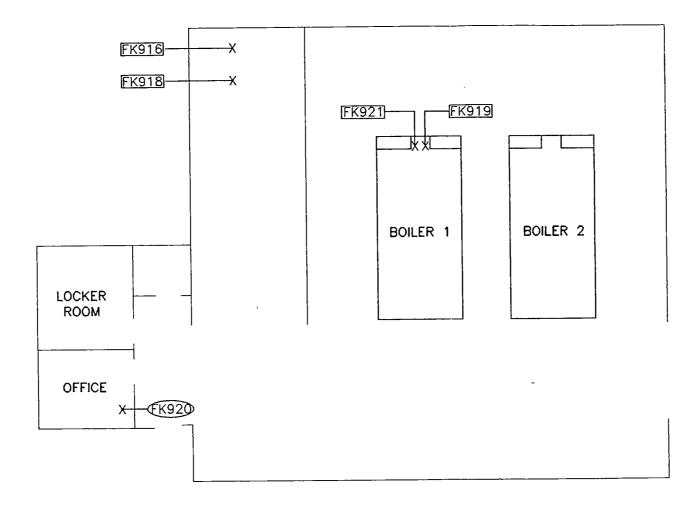
DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL					
Pipe Fittings (EA)		_	_	· · · · ·		 , , , , , , , , , , , , , , , , , , , 		-
24-8" 9-14" >14"	70.30 85.80 147.80 216.80	<u> </u>	<u> </u>		•			
	276:88	-	-			•		
Pipe Runs (LF)	26.50	_	-					
4 ⁻ 8" 9-14" >14"	26.50 30.50 60.80	-	•					
	60.80	-	-					
Sprayed/Troweled Ceilings (SF)	9.60	-	-					
Floor Tile (SF)	5.60	0.8	0.8					
Boilers/Tanks (SF)	37.90	-						
Air Handling Equipment (SF)	20.00	-	-					
Other		-	-					
SUBTOTAL		0.8	0.8					
Difficulty Allowance		-	-					
SUBTOTAL		0.8	0.8					
Decontamination Units Mobilization		3 :8	3 :8					į
SUBTOTAL		5.8	5.8					
Contingency a 15.00%		0.9	0.9					
SUBTOTAL		6.7	6.7					
Design Fee @ 10.00%	,	0.7	0.7					
SUBTOTAL		7.4	7.4					
Air Monitoring a 10.00%**	*	0.7	0.7					
TOTAL		8.1	8.1				_	

AREA 1: OFFICE

^{*}Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BOILER : HOUSE FLOOR PLAN

BLDG. 1076
NOT TO SCALE





1076-8

WAREHOUSE

2018.1 GENERAL

Building 2018 was surveyed by WESTON's inspection team on 14 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. All three samples were found to be nonasbestos-containing materials (ACM). Table 2018.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing duct (opening) insulation was found in the warehouse area of Building 2018. This material was not sampled; instead it was referenced to a similar insulation material found in Building 2542, which was tested to be ACM.

2018.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2018 are presented in Table 2018.1. An area-by-area inventory of ACM is provided in Tables 2018.2 and 2018.3. "Other Asbestos-Containing Materials," listed in Table 2018.3, are materials that do not correspond to the standard caption categories listed in Table 2018.2. A prioritized listing of exposure assessments is presented in Table 2018.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2018.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2018.2 and 2018.5.

2018.3 RECOMMENDATIONS/CONCLUSIONS

- Duct-opening cover/insulation material was the material in Building 2018 found to be ACM.
- The ACM listed above should be labeled under the O&M Program.

TABLE 2018.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2018, WAREHOUSE

SAMPLE				PERCE	NT ASB	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK942	ROOM 1	OTHER MATERIAL	BLACK,OTH,LINOLEUM		-	-	YES
FK943	ROOM 2	OTHER MATERIAL	BLACK,OTH,LINOLEUM	-	-	-	YES
FK944	MEN'S LOUNGE	FLOOR TILE	TAN,OTH,FLOOR TILE	•	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

	Р	IPE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
AREHOUSE						<u>_</u>		:			-		
OTALS	_	_	_	_	-	_	_	_	_	-	_	-	*

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 2018.3

Other Asbestos-Containing Material - Building 2018, Warehouse Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Warehouse	Duct Insulation	0.010 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2018.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2018, WAREHOUSE

%	AVG. EXP.	TORS	FAC	URE	POS	E)	PRIORITY INDEX	PRIOR. INDEX	MATERIAL		SAMPLE
 ASB.	HOURS	5	4	3	2	1	NUMBER	CODE	ТҮРЕ	AREA	NO.
0	8.00	2	2	1	1	2	n	Δ	CEILING BOARD	MEN'S LOUNGE	FK917
ŏ	8.00	2	2	i	i	Ž	ŏ	Â	CEILING BOARD	MEN'S ROOM	FK917
0	8.00	2	2	1	1	2	0	Α	CEILING BOARD	OFFICE	FK917

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability 3 [=] Material Condition

4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 2018.5 COST ESTIMATE* - BUILDING 2018, WAREHOUSE

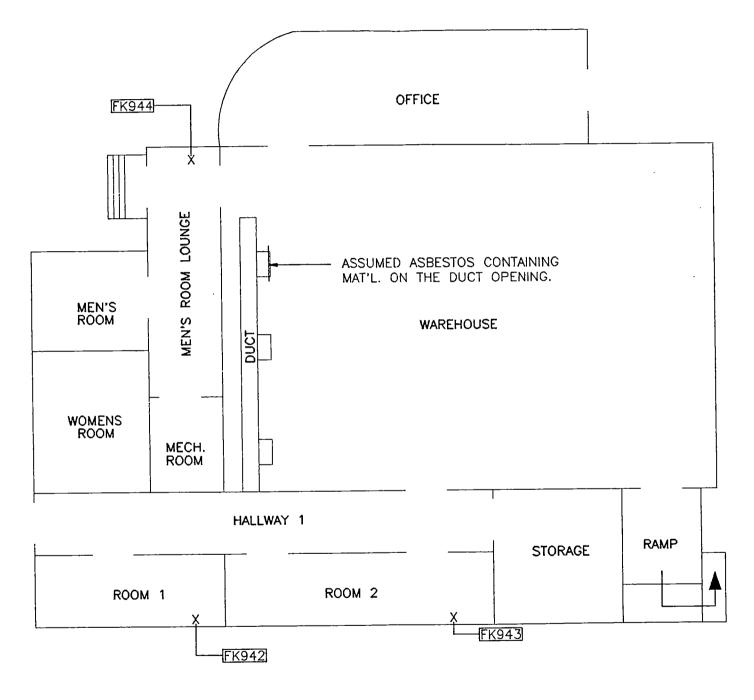
DESCRIPTION	COST (\$)	AREA	TOTAL
Pipe Fittings (EA)	ZQ-3Q	<u>-</u>	:
4-8" 9-14" >14"	70-30 147-00 216-00	=	=
Pipe Runs (LF)	26.50	_	_
4-8" 9-14" >14"	26.50 30.50 42.50 60.80	<u>:</u>	<u>-</u>
	00.00	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		**	**
SUBTOTAL		**	**
Difficulty Allowance		**	**
SUBTOTAL		**	**
Decontamination Units Mobilization		2:8	2:8
SUBTOTAL		3.5	3.5
Contingency @ 15.00%		0.5	0.5
SUBTOTAL		4.1	4.1
Design Fee a 10.00%		0.4	0.4
SUBTOTAL		4.5	4.5
Air Monitoring a 10.00%	rww	0.5	0.5
TOTAL	-	5.0	5.0

AREA 1: WAREHOUSE

^{*}Amounts Are In Thousands Of Dollars

***Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 2018

NOT TO SCALE





STOREHOUSE

2044.1 GENERAL

Building 2044 was surveyed by WESTON's inspection team on 14 August 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 2044.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing transite panel was found in the storeroom of Building 2044. This material was not sampled; instead it was referenced to a similar transite panel found in Building 2564.

2044.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2044 are presented in Table 2044.1. An area-by-area inventory of ACM is provided in Tables 2044.2 and 2044.3. "Other Asbestos-Containing Materials," listed in Table 2044.3, are materials that do not correspond to the standard caption categories listed in Table 2044.2. A prioritized listing of exposure assessments is presented in Table 2044.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2044.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2044.2 and 2044.5.

2044.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 2044 are:
 - Transite panel Floor tile
- The ACMs listed above should be labeled under the O&M Program.

TABLE 2044.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2044, STOREHOUSE

SAMPLE				PERC	<u>ent asbi</u>	<u>ESTOS</u>	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED'
FK939	BATHROOM	FLOOR TILE	GREEN, OTH, FLOOR TILE	10	-	-	YES
FK940	LOUNGE	FLOOR TILE	BROWN, OTH, FLOOR TILE	-	-	-	YES
FK941	EXTERIOR SIDING	OTHER MATERIAL	BLACK,OTH,BLDG PAPER	-	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 2044.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 2044, STOREHOUSE

			INGS (EA)			PIPE RU			SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<u> </u>	4-8"	9-14"	>14"	<u> </u>	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
BATHROOM	-	-	-	-	-	-	-	-	•	0.06	-	-	-
STOREROOM	<u> </u>	-			.			-					*
TOTALS	<u>-</u>		-	-	-	-	-	-		0.06		-	*

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 2044.3

Other Asbestos-Containing Material - Building 2044, Storehouse Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Store Room	Transite Panel	0.045 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2044.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2044, STOREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXF	POSL 2	JRE 3	FAC	CTORS 5	AVG. EXP. HOURS	% ASB.
FK935	STOREROOM	TRANSITE PANEL BOARD	Α	4.200E00	1	2	1	2	5	16.00	30

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [-] Material Friability
2 [-] Occupant Accessability
3 [-] Material Condition
4 [-] Level Of Activity
5 [-] Number Of Assigned Occupants

TABLE 2044.5 COST ESTIMATE* - BUILDING 2044, STOREHOUSE

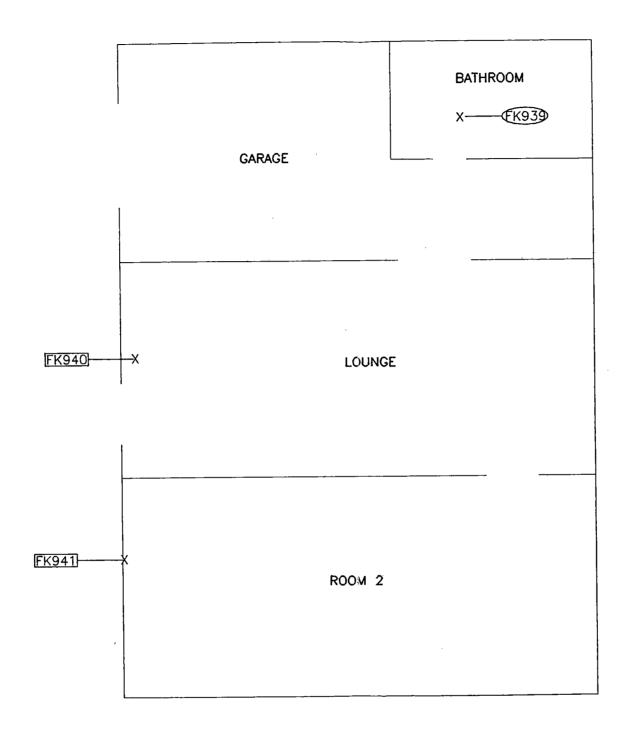
DESCRIPTION	UNIT COST (\$)	AREA	AREA	TOTAL
Pipe Fittings (EA)		····		IVINE
4-8" 9-14" >14"	70.30 85.80 147.00 216.00	:	:	=
	216.00	-	-	-
Pipe Runs (LF)	26.50	-	-	-
4-8" 9-14" >14"	26-50 30-50 42-50 60-80	-	-	-
	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	0.3	-	0.3
Boilers/Tanks (SF)	37.90	•	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	0.5	0.5
SUBTOTAL	•	0.3	0.5	0.8
Difficulty Allowance		-	-	-
SUBTOTAL		0.3	0.5	0.8
Decontamination Units Mobilization		1:8	1:8	3 :0
SUBTOTAL		2.8	3.0	5.8
Contingency a 15.00%		0.4	0.4	0.9
SUBTOTAL		3.3	3.4	6.7
Design Fee @ 10.00%		0.3	0.3	0.7
SUBTOTAL	***	3.6	3.8	7.4
Air Monitoring a 10.00%	**************************************	0.4	0.4	0.7
TOTAL		4.0_	4.2	8.1

^{*}Amounts Are In Thousands Of Dollars

AREA 1: BATHROOM

^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 2044 NOT TO SCALE





2044-8

CHAPEL

2275.1 GENERAL

Building 2275 was surveyed by WESTON's inspection team on 9 and 11 September 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be nonasbestoscontaining material (non-ACM).

The location, description, and analytical results for the bulk sample from Building 2275 are presented in Table 2275.1.

2275.2 CONCLUSION

Based on the survey and the laboratory results of the sample collected in Building 2275, WESTON concludes that no ACM was detected in Building 2275.

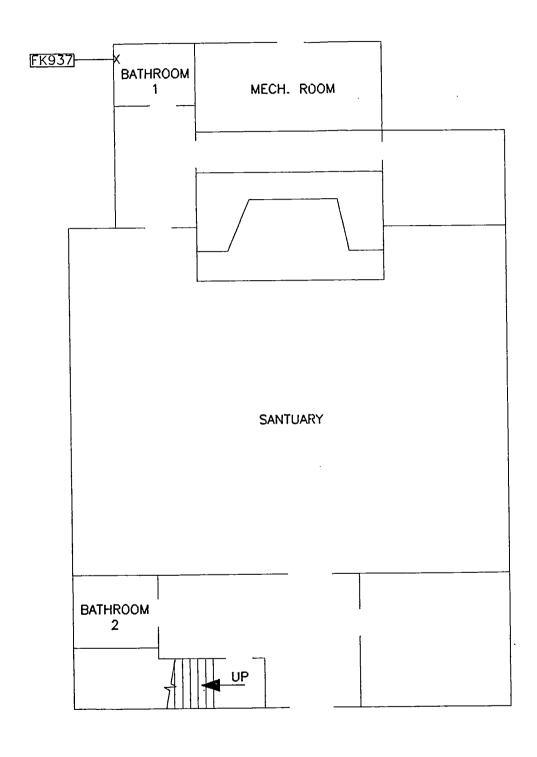
TABLE 2275.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2275, CHAPEL

			ESTOS	_
DESCRIPTION	CH	AM	OT	LAYERED
GRAY,OTH,FLOOR TILE	-	-	-	NO

 $^{^{\}mathbf{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		•
SE = Southeast		
SW = Southwest		



BLDG. 2275
NOT TO SCALE





STORAGE

2531.1 GENERAL

Building 2531 was surveyed by WESTON's inspection team on 30 September 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be nonasbestoscontaining material (non-ACM).

The location, description, and analytical results for the bulk sample from Building 2531 are presented in Table 2531.1.

2531.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for the bulk sample from Building 2531 are presented in Table 2531.1. An area-by-area inventory of ACM is provided in Tables 2531.2 and 2531.3. As identified in Table 2531.4, no exposure assessment was performed because only nonfriable ACM was detected in this building. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2531.5. The method by which removal/replacement costs are calculated is provided in Table 2531.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample location and building area names as they are listed in Tables 2531.2 and 2531.5.

2531.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 2531 found to be ACM.
- Asbestos-containing floor tile present in Building 2531 should be labeled under the O&M Program.

TABLE 2531.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2531, STORAGE

SAMPLE				PERCE	NT ASB	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED ^a
HF514	FIRST FLRENTIRE	FLOOR TILE	TAN,OTH,FLOOR TILE	3	-	-	NO

 $^{^{\}rm a}$ Asbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

ASBESTOS-CONTAINING MATERIALS - BUILDING 2531, STORAGE

	P.1	IPE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<411	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
FIRST FLRENTIRE	:		<u></u>	·					-	3.20		-	<u>.</u>
TOTALS	-	-	_	-	-	-	-		-	3.20	-	-	-

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 2531.3

Other Asbestos-Containing Material - Building 2531, Storage Type Occupancy: Adults (Public)

. Area	Material Type	Quantity (Unit)
No Other A	Asbestos-Containing Material Found in th	is Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2531.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2542, STOREHOUSE

	_			22122121		41/4		
			PRIOR.	PRIORITY		AVG.		
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	%	
NO					4 0 7 7 5			
NO.	AREA	TYPE	CODE	NUMBER	12345	HOURS	ASB.	

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 2531.5 COST ESTIMATE* - BUILDING 2531, STORAGE

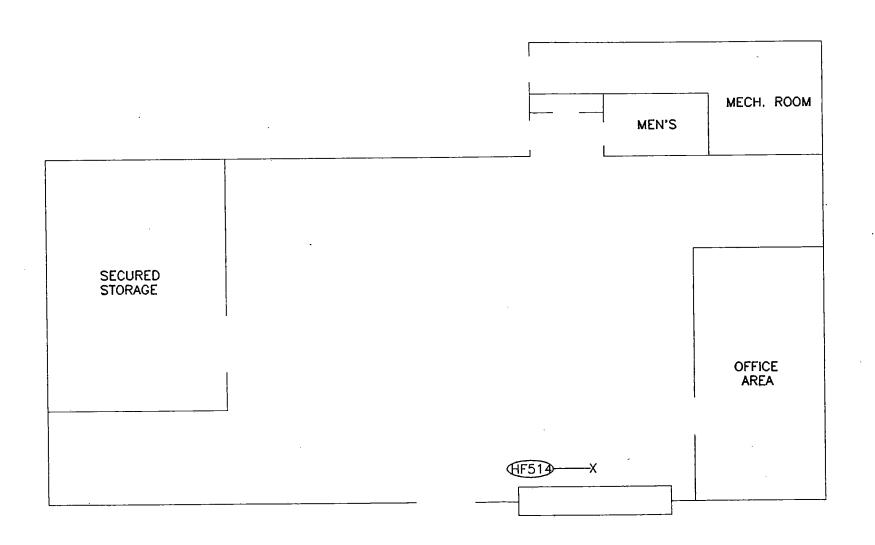
	UNIT COST (\$)	AREĄ	
DESCRIPTION	COST (\$)	1	TOTAL
Pipe Fittings (EA)	70.30	-	-
4 ¹ 8" 9-14" >14"	70.30 147.00 216.00	-	:
	210.00	-	-
Pipe Runs (LF)	26- 50	=	:
4 ⁻ 8" 9-14" >14"	26.50 22.50 60.80	•	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	17.9	17.9
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	•	-
Other		-	-
SUBTOTAL		17.9	17.9
Difficulty Allowance		-	-
SUBTOTAL		17.9	17.9
Decontamination Units Mobilization		3:8	3 :8
SUBTOTAL		22.9	22.9
Contingency a 15.00%		3.4	3.4
SUBTOTAL		26.4	26.4
Design Fee a 10.00%		2.6	2.6
SUBTOTAL	,	29.0	29.0
Air Monitoring a 10.00%	***	2.9	2.9
TOTAL	<u>. </u>	31.9	31.9

AREA 1: FIRST FLR.-ENTIRE

^{*}Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 2531
NOT TO SCALE





LABORATORY

2535.1 GENERAL

Building 2535 was surveyed by WESTON's inspection team on 9 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Both samples were found to be asbestoscontaining materials (ACM). Table 2535.1 lists the analytical results for the bulk samples.

2535.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2535 are presented in Table 2535.1. An area-by-area inventory of ACM is provided in Tables 2535.2 and 2535.3. "Other Asbestos-Containing Materials," listed in Table 2535.3, are materials that do not correspond to the standard caption categories listed in Table 2535.2. A prioritized listing of exposure assessments is presented in Table 2535.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2535.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2535.2 and 2535.5.

2535.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 2535 are:
 - Floor tile

- Transite panel
- The ACMs listed above should be labeled under the O&M Program.

TABLE 2535.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2535, LABORATORY

SAMPLE				PERCE	NT_ASBE	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	ÀM	OΤ	LAYERED
FK931 BATHROOM		FLOOR TILE	GREEN,OTH,FLOOR TILE	5	-	-	NO
FK932 BATHROOM		FLOOR TILE	TAN, OTH, FLOOR TILE	3	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes C = Center	System Codes STM = Steam	<u>Asbestos Types</u> CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

ASBESTOS-CONTAINING MATERIALS - BUILDING 2535, LABORATORY

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)	·	SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTH
SEMBLY AREA	_	-	-	-	-	-	-	-	-	0.39	-	-	-
THROOM	-	-	-	-	-	-	-	-	•	0.11	-	•	-
EAK ROOM				<u></u>		<u> </u>		<u></u>				- .	
TALS	-	_	_	-	-	-	-		-	0.50			1

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 2535.3

Other Asbestos-Containing Material - Building 2535, Laboratory Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Break Room	Transite Panel	0.020 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2535.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) -BUILDING 2535, LABORATORY

SAMPLE NO. AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	<u>EXP</u>	osu 2	RE 3	FAC	TORS 5	AVG. EXP. HOURS	% ASB.
FK812 BREAK ROOM FK753 ASSEMBLY AREA	TRANSITE PANEL BOARD	A A	4.200E00 0	1 2	_	1	_	5 4	16.00 40.00	3 0 0

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

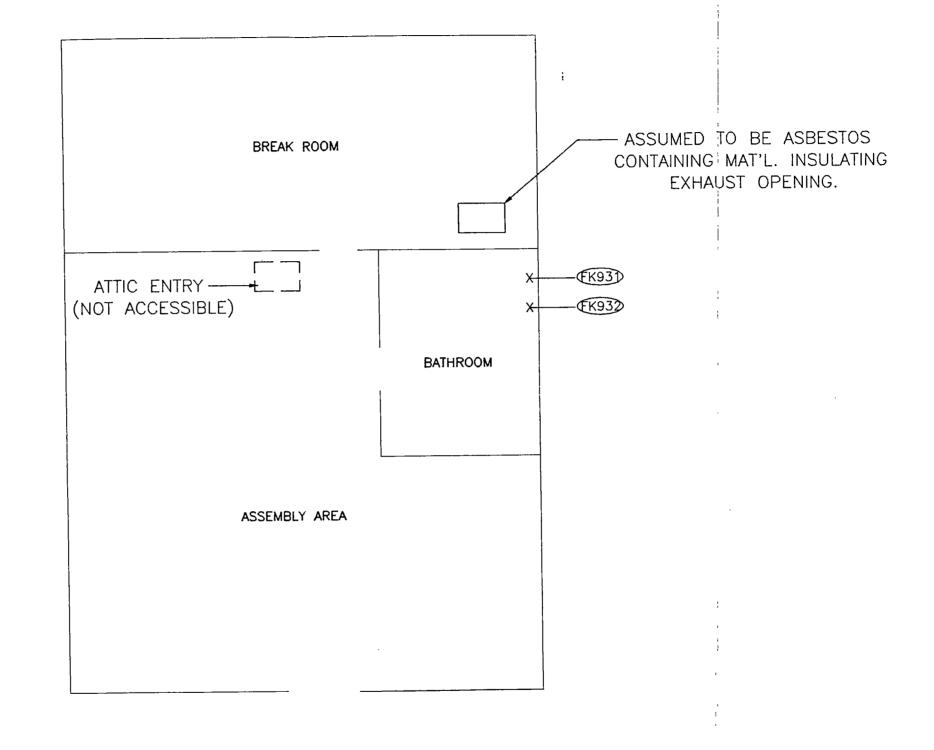
TABLE 2535.5 COST ESTIMATE* - BUILDING 2535, LABORATORY

	LINTT	AREA	AREĄ	AREĄ	
DESCRIPTION	UNIT COST (\$)		2	3	TOTAL
Pipe Fittings (EA)	70.30	-	-	-	-
4-8" 9-14" >14"	70.30 85.80 147.00 216.00	:	Ξ	Ē	:
Pipe Runs (LF)	24 E0	_		_	_
}4-8" 9- 14" >14"	26.50 30.50 42.50 60.80	:	-	-	-
≯ 14π	36:88	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-
Floor Tile (SF)	5.60	2.2	0.6	-	2.8
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	-	0.2	. 0.2
SUBTOTAL		2.2	0.6	0.2	3.0
Difficulty Allowance		-	-	0.4	0.4
SUBTOTAL		2.2	0.6	0.7	3.4
Decontamination Units Mobilization		ე: ე	∂: 9	∂: 9	3:8
SUBTOTAL		3.8	2.3	2.3	8.4
Contingency a 15.00%		0.6	0.3	0.3	1.3
SUBTOTAL		4.4	2.6	2.7	9.7
Design Fee @ 10.00%	,	0.4	0.3	0.3	1.0
SUBTOTAL		4.8	2.9	2.9	10.7
Air Monitoring a 10.00%	χ ** *	0.4	0.4	0.4	1.1
TOTAL		5.2	3.2	3.3	11.7

^{*}Amounts Are In Thousands Of Dollars

AREA 1: ASSEMBLY AREA AREA 3: BREAK ROOM

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 2535 NOT TO SCALE





STOREHOUSE

2542.1 GENERAL

Building 2542 was surveyed by WESTON's inspection team on 9 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of a ceiling insulation sample location is provided in Subsection 2542.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 1 sample of suspect material collected from the building. This samples was found to be asbestoscontaining material (ACM). Table 2542.1 lists the analytical results for the bulk sample.

2542.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for the bulk sample from Building 2542 are presented in Table 2542.1. An area-by-area inventory of ACM is provided in Tables 2542.2 and 2542.3. "Other Asbestos-Containing Materials," listed in Table 2542.3, are materials that do not correspond to the standard caption categories listed in Table 2542.2. A prioritized listing of exposure assessments is presented in Table 2542.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2542.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2542.2 and 2542.5.

2542.3 RECOMMENDATIONS/CONCLUSIONS

Ceiling insulation (exhaust flue) was the material in Building 2542 found to be ACM.

• The ACM listed above should be labeled under the O&M Program.

TABLE 2542.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2542, STOREHOUSE

SAMPLE		· ·		PERCE	NT ASBE	STOS	_
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK930 S	TOREHOUSE-CEIL.	OTHER MATERIAL	GRAY, OTH, CEIL INSUL	65	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

	P	IPE FITT	INGS (EA)		PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-8"		>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
STOREHOUSE-CEIL.	<u> </u>			.								<u> </u>	*
TOTALS	-	-	_	_	-	-	-	_	<u>-</u>		-	-	*

^{*} Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 2542.3

Other Asbestos-Containing Material - Building 2542, Storehouse Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Storehouse	Ceiling Insulation	0.080 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2542.4

BUILDING 2542, STOREHOUSE EXPOSURE ASSESSMENTS (PRIORITY ORDER) -

	 		
	PRIOR.	PRIORITY AV	1.
SAMPLE	MATERIAL INDEX	INDEX <u>EXPOSURE FACTORS</u> EXP	
NO. AREA	TYPE CODE	NUMBER 1 2 3 4 5 HOUR	

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 2542.5 COST ESTIMATE* - BUILDING 2542, STOREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA	TOTAL	
Pipe Fittings (EA)	70 30		_	
24 8 11 9- 14 11 > 14 11	70.30 85.80 147.00 216.00	=	:	
₹14 ñ	276:00	-	-	
Pipe Runs (LF)	26.50	-	-	
4-8" 9-14" >14"	26.50 30.50 42.50 60.80	-	:	
	60.80	-	-	
Sprayed/Troweled Ceilings (SF)	9.60	-	-	
loor Tile (SF)	5.60	-	-	
Boilers/Tanks (SF)	37.90	-	-	
lir Handling Equipment (SF)	20.00	-	•	
Other	2010 9	0.1	0.1	
SUBTOTAL		0.1	0.1	
Difficulty Allowance		0.5	0.5	
SUBTOTAL		0.6	0.6	
Decontamination Units Mobilization		1:5	1:5	
SUBTOTAL		4.1	4.1	
Contingency @ 15.00%		0.6	0.6	
SUBTOTAL		4.7	4.7	
Design Fee a 10.00%	•	0.5	0.5	
SUBTOTAL		5.2	5.2	
Air Monitoring a 10.00% ^{**}	*	0.5	0.5	
TOTAL		5.7	5.7	

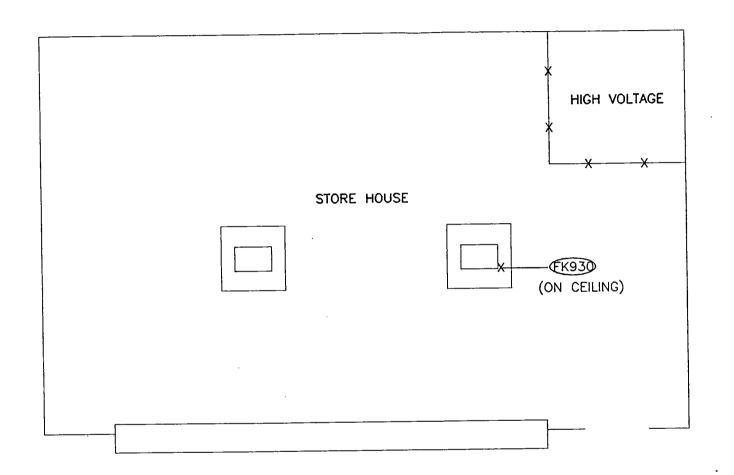
^{*}Amounts Are In Thousands Of Dollars

AREA 1: STOREHOUSE-CEIL.

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building



Bldg. 2542 Storehouse Ceiling: (Sample FK930) Ceiling (Furnace Exhaust Opening) Insulation Tested Positive



BLDG 2542 NOT TO SCALE





HEAT PLANT

2543.1 GENERAL

Building 2543 was surveyed by WESTON's inspection team on 9 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of a pipe run insulation sample location is provided in Subsection 2543.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 2543.1 lists the analytical results for the bulk samples.

2543.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2543 are presented in Table 2543.1. An area-by-area inventory of ACM is provided in Tables 2543.2 and 2543.3. "Other Asbestos-Containing Materials," listed in Table 2543.3, are materials that do not correspond to the standard caption categories listed in Table 2543.2. A prioritized listing of exposure assessments is presented in Table 2543.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2543.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2543.2 and 2543.5.

2543.3 RECOMMENDATIONS/CONCLUSIONS

- Pipe insulation (abandoned pipe) was the material in Building 2543 found to be ACM.
- The ACM listed above should be labeled under the O&M Program.

TABLE 2543.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2543, HEAT PLANT

SAMPLE				PERC	NT ASB	ESTOS	-
NO.	LOCATION	ITEM	DESCRIPTION	СН	AM	OT	LAYERED
FK928 STORAG	E ROOM	<4" PIPE RUN	GRAY,UNK,PIPE INSUL	15	20	-	NO
FK929 BOILER		OTHER MATERIAL -	WHITE,OTH,BRH INSULA	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	KHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

	PII	PE FITTI	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"_	>14"	<4 ¹¹	4-8"	9-14"	>1411	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
STORAGE ROOM	<u> </u>		_		10							<u> </u>	
TOTALS	-			<u>-</u>	10	-			<u> </u>	-		<u>-</u>	

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 2543.3

Other Asbestos-Containing Material - Building 2543, Heat Plant Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)			
No Other	Asbestos-Containing Material Found in th	is Building			

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2543, HEAT PLANT

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EXP	OSUR	E FA	CTORS	AVG.	*
NO.	AREA	TYPE	CODE	NUMBER	1	2 3	4	5	HOURS	ASB.
FK928 STORAG	E ROOM	<4" PIPE RUN	В	2.750E02	3	2 2	2	1	1.00	35

Priority Index Codes
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 2543.5 COST ESTIMATE* - BUILDING 2543, HEAT PLANT

	UNIT COST (\$)	AREĄ	
DESCRIPTION	COST (\$)	1	TOTAL
Pipe Fittings (EA)	70:30 85:80	•	-
4-≅" 9-14" >14"	127:80 216:00	=	=
Pipe Runs (LF)	•	0.7	0.7
4-8"	26.50 30.50 42.50 60.80	0.3	0.3
4-8" 9-14" >14"	\$6:88	Ξ	:
Sprayed/Troweled Ceilings (SF)	9.60	-	_
Floor Tile (SF)	5.60	-	_
Boilers/Tanks (SF)	37.90	-	_
Air Handling Equipment (SF)	20.00	-	-
Other .	,	-	-
SUBTOTAL		0.3	0.3
Difficulty Allowance		-	-
SUBTOTAL		0.3	0.3
Decontamination Units Mobilization		2:5	2:8
SUBTOTAL		3.8	3.8
Contingency a 15.00%		0.6	0.6
SUBTOTAL		4.3	4.3
Design Fee a 10.00%		0.4	0.4
SUBTOTAL		4.8	4.8
Air Monitoring a 10.00%	***	0.5	0.5
TOTAL		5.3	5.3

AREA 1: STORAGE ROOM

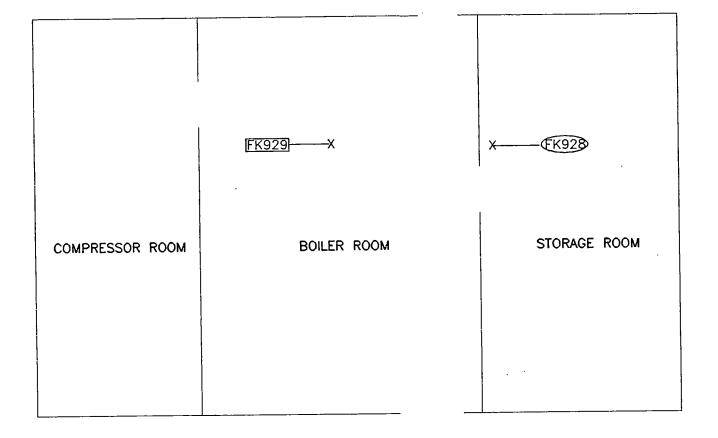
^{*}Amounts Are In Thousands Of Dollars

***Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

****The Minimum Air Monitoring Fee is \$500.00 Per Building



Bldg. 2543 Storage Room: (Sample FK928) Abandoned <4" Pipe Run Insulation Tested Positive



BLDG. 2543 NOT TO SCALE





DISPATCH BUILDING

2561.1 GENERAL

Building 2561 was surveyed by WESTON's inspection team on 9 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Both samples were found to be non-asbestos-containing material (ACM). Table 2561.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing transite panel was found in the Mechanical Room (ceiling) of Building 2561. This material was not sampled; instead it was referenced to a similar transite panel found in Building 2564, which was tested to be ACM.

2561.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2561 are presented in Table 2561.1. An area-by-area inventory of ACM is provided in Tables 2561.2 and 2561.3. "Other Asbestos-Containing Materials," listed in Table 2561.3, are materials that do not correspond to the standard caption categories listed in Table 2561.2. A prioritized listing of exposure assessments is presented in Table 2561.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2561.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2561.2 and 2561.5.

2561.3 RECOMMENDATIONS/CONCLUSIONS

- Transite panel was the material in Building 2561 found to be ACM.
- Asbestos-containing transite panel should be labeled under the O&M Program.

TABLE 2561.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2561, DISPATCH BUILDING

SAMPLE				PERCE	NT ASBE	ESTOS	-
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK933	WOMEN'S BATHROOM	FLOOR TILE	TAN,OTH,FLOOR TILE	-	-	-	NO
	MECH. ROOM	OTHER MATERIAL	GRAY, OTH, MUD PACKIG	-	-	-	NO

 $^{^{\}mathbf{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

AREA	<4"	PIPE FITT 4-8"	INGS (EA) 9-14"	>14"	<4"	PIPE RU	INS (LF) 9-14"	>14"	SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
MECH. ROOM		_	<u> </u>	-		<u>_</u> :			<u> </u>				*
TOTALS			<u> </u>	-		<u> </u>		-	<u> </u>	<u> </u>	<u> </u>	<u> </u>	*

^{*} Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 2561.3

Other Asbestos-Containing Material - Building 2561, Dispatch Building Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Mechanical Room	Transite Panel	0.060 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2561.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2561, DISPATCH BUILDING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS 1 2 3 4 5	AVG. EXP. HOURS	X ASB.	
FK935	MECH. ROOM	TRANSITE PANEL BOARD	. A	4.200E00	1 2 1 2 · 5	16.00	30	

Priority Index Codes
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [-] Material Friability
2 [-] Occupant Accessability
3 [-] Material Condition
4 [-] Level Of Activity
5 [-] Number Of Assigned Occupants

TABLE 2561.5 COST ESTIMATE* - BUILDING 2561, DISPATCH BUILDING

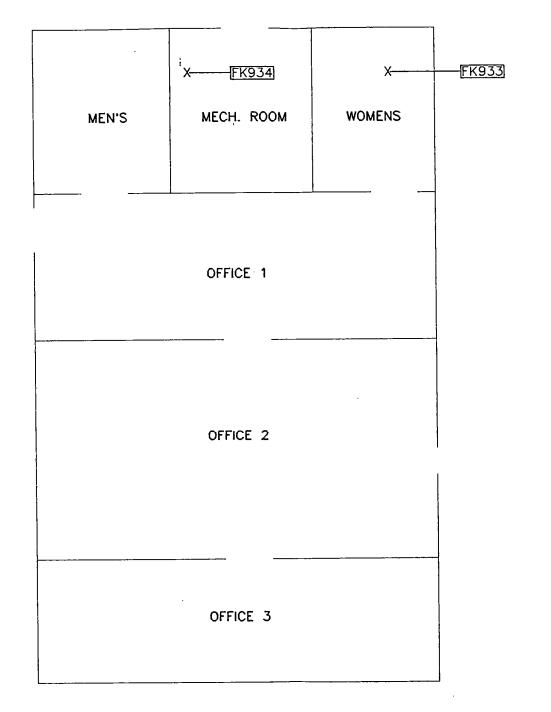
	UNIT COST (\$)	AREĄ	
DESCRIPTION	COST (\$)	1	TOTAL
Pipe Fittings (EA)	70.30 85.80	-	•
4 ⁻ 8" 9-14" >14"	127:80 216:00	=	:
Pipe Runs (LF)	04 50		
4-8"	26.50 30.50 42.50 60.80	=	-
4-8" 9-14" >14"	26:8 8	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	_
Other		0.7	0.7
SUBTOTAL		0.7	0.7
Difficulty Allowance		-	-
SUBTOTAL		0.7	0.7
Decontamination Units		1:8	2:5
SUBTOTAL		4.2	4.2
Contingency a 15.00%		0.6	0.6
SUBTOTAL		4.8	4.8
Design Fee @ 10.00%		0.5	0.5
SUBTOTAL		5.3	5.3
Air Monitoring a 10.00%	(RR	0.5	0.5
TOTAL		5.8	5.8

^{*}Amounts Are In Thousands Of Dollars

AREA 1: MECH. ROOM

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 2561 NOT TO SCALE





WAREHOUSE

2562.1 GENERAL

Building 2562 was surveyed by WESTON's inspection team on 30 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Assumed asbestos-containing floor tile (9" x 9" brown) was found in the office area of Building 2562. This material was not sampled; instead it was referenced to a similar floor tile found in Building 202, which was tested to be ACM.

2562.2 ACM AND EXPOSURE ASSESSMENT

An area-by-area inventory of ACM is provided in Tables 2562.2 and 2562.3. "Other Asbestos-Containing Materials," listed in Table 2562.3, are materials that do not correspond to the standard caption categories listed in Table 2562.2. A prioritized listing of exposure assessments is presented in Table 2562.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2562.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report.

2562.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 2562 found to be ACM.
- Asbestos-containing floor tile present in Building 2562 should be labeled under the O&M Program.

TABLE 2562.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2562, WAREHOUSE

				
			·	DEDOCAL ACCEPTOR
SAMPLE				PERCENT ASBESTOS
NO.	LOCATION	ITEM	DESCRIPTION	CH AM OT LAYERED

Suspect material noted in this building was correlated with material sampled from adjacent buildings. Those materials that tested positive (i.e. that contains asbestos) are reflected in the schematic floor plans of this discussion and are included in the cost estimates (labor and material expenses) shown in the following tables.

SW = Southwest

Quadrant Codes System Codes Asbestos Types STM = Steam CH = Chrysotile C = Center AM = Amosite CHW = Chilled Water = North OT = Other = East HHW = Heating Hot Water DOM = Domestic Water S = SouthOTH = Other W = West NE = Northeast UNK = Unknown NW = Northwest SE = Southeast

^aAsbestos content presented for layered samples represents the highest concentration layer.

ASBESTOS-CONTAINING MATERIALS - BUILDING 2562, WAREHOUSE

AREA	PIPE FITTINGS (EA) <4" 4-8" 9-14" >14"				PIPE RUNS (LF)			SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER	
OFFICE		<u> 4-0"</u>		-					-	0.14	-		
TOTALS			-	-	-	-		-	<u> </u>	0.14_	<u>-</u>	<u></u>	

^{*} Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 2562.3

Other Asbestos-Containing Material - Building 2562, Warehouse Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other A	Asbestos-Containing Material Found in th	nis Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2562.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2562, WAREHOUSE

		_ · _ · _ · _ · _ · _ · _ · _ · _ · _ ·	-					
			PRIOR.	PRIORITY		AVG.		
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	ኤ	
NO.	AREA	TYPE	CODE	NUMBER	1 2 3 4 5		ACR	
NU.	AREA	IIFE	CODE	NOMBER		HOOKS.	AJD.	

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 2562.5 COST ESTIMATE* - BUILDING 2562, WAREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA	TOTAL				
Pipe Fittings (EA)		'	10105	 ••••			
44" 4-8" 9-14" >14"	70.30 85.80 147.00 216.00	:	=				
	216.00	•	-				
Pipe Runs (LF)	26-50	-	-				
4-8" 9-14" >14"	26.50 30.50 22.50 60.80	=	:				
Sprayed/Troweled Ceilings (SF)	9.60	-	-				
Floor Tile (SF)	5.60	0.8	0.8				
Boilers/Tanks (SF)	37.90	-	-				
Air Handling Equipment (SF)	20.00	-	-				
Other		-	-				
SUBTOTAL		0.8	0.8				
Difficulty Allowance		-	-				
SUBTOTAL		0.8	0.8				,
Decontamination Units Mobilization		2:5	2:8				
SUBTOTAL		4.3	4.3	•	•	•	•
Contingency a 15.00%		0.6	0.6				
SUBTOTAL		4.9	4.9				
Design Fee a 10.00%	,	0.5	0.5				
SUBTOTAL	a. a. d.	5.4	5.4				
Air Monitoring a 10.00%	R R R	0.5	0.5				
TOTAL		5.9	5.9				

^{*}Amounts Are In Thousands Of Dollars

AREA 1: OFFICE

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

****The Minimum Air Monitoring Fee is \$500.00 Per Building

WAREHOUSE/REPAIR SHOP

2564.1 GENERAL

Building 2564 was surveyed by WESTON's inspection team on 9 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of a transite panel sample location is provided in Subsection 2564.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 2564.1 lists the analytical results for the bulk samples.

2564.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2564 are presented in Table 2564.1. An area-by-area inventory of ACM is provided in Tables 2564.2 and 2564.3. "Other Asbestos-Containing Materials," listed in Table 2564.3, are materials that do not correspond to the standard caption categories listed in Table 2564.2. A prioritized listing of exposure assessments is presented in Table 2564.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2564.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2564.2 and 2564.5.

2564.3 RECOMMENDATIONS/CONCLUSIONS

- Transite panel was the material in Building 2564 found to be ACM.
- Asbestos-containing transite panel present in Building 2564 should be labeled under the O&M Program.

TABLE 2564.1 BULK SAMPLE ANALYSIS RESULTS - BUILDING 2564, WAREHOUSE/REPAIR SHP

SAMPLE								
NO.	LOCATION	ITEM	DESCRIPTION	CH_	AM	ŌT	LAYEREDa	
FK935 MECH.	ROOM	TRANSITE PANEL BOARD	GRAY,OTH,TRANS PANL	30	-	-	NO	
FK936 STORAL		OTHER MATERIAL	GRAY, OTH, MUD PACKNG	•	-	-	NO	

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
\$ = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

	P	IPE FITT	INGS (EA))		PIPE RU	NS (LF)	<u> </u>	SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING		
AREA	<4"	4-8"	9-14"	>14"	<4II	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER	
MECH. ROOM	-	-	-	-	-	-	-	-	=	-	-	-	*	
STORAGE			-		<u> </u>								*	
TOTALS		-	_	-	-		-	-	<u> </u>			-	*	

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 2564.3

Other Asbestos-Containing Material - Building 2564, Warehouse/Repair Shop Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Mechanical	Transite Panel	0.050 (MSF)
Storage	Transite Panel	0.005 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 2564.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2564, WAREHOUSE/REPAIR SHP

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EXPOSURE FACT				TORS	AVG. EXP.	×	
NO.	AREA	TYPE	CODE	NUMBER	1_	2	3	4	5	HOURS	ASB.	
FK935 N	IECH. ROOM	TRANSITE PANEL BOARD	Δ	4.200E00	1	2	1	2	5	16.00	30	
	TORAGE	TRANSITE PANEL BOARD	Â	4.200E00	i	2	i	2	5	16.00	30	

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

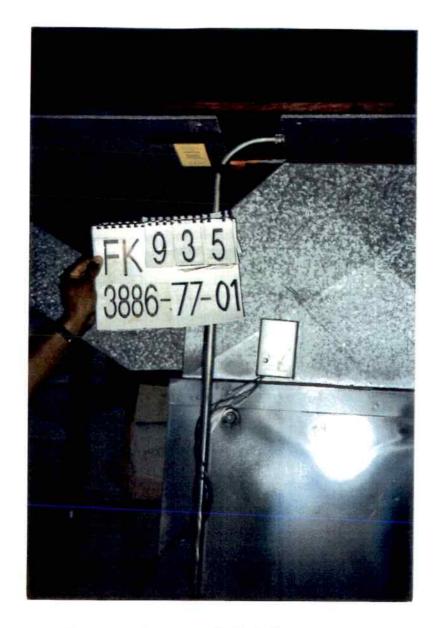
TABLE 2564.5 COST ESTIMATE* - BUILDING 2564, WAREHOUSE/REPAIR SHP

	HATT	AREĄ	ADFA	
DESCRIPTION	COST (\$)		AREA 2	TOTAL
Pipe Fittings (EA)	ZQ-30	:	:	:
3-8" 9-14" >14"	70.30 147.00 216.00	-	-	-
Pipe Runs (LF)	26 50	_	_	_
4-8" 9-14" >14"	26.50 30.50 42.50 60.80	-	-	=
	80:80	-	- .	•
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		0.6	**	0.6
SUBTOTAL	4.	0.6	**	0.6
Difficulty Allowance		-	-	-
SUBTOTAL		0.6	**	0.6
Decontamination Units Mobilization		9:8	9:8 1:0	2:5
SUBTOTAL		2.3	1.8	4.1
Contingency a 15.00%		0.3	0.3	0.6
SUBTOTAL		2.6	2.0	4.7
Design Fee @ 10.00%		0.3	0.2	0.5
SUBTOTAL	***	2.9	2.2	5.2
Air Monitoring a 10.00%	# # #	0.3	0.3	0.5
TOTAL		3.2	2.5	5.7

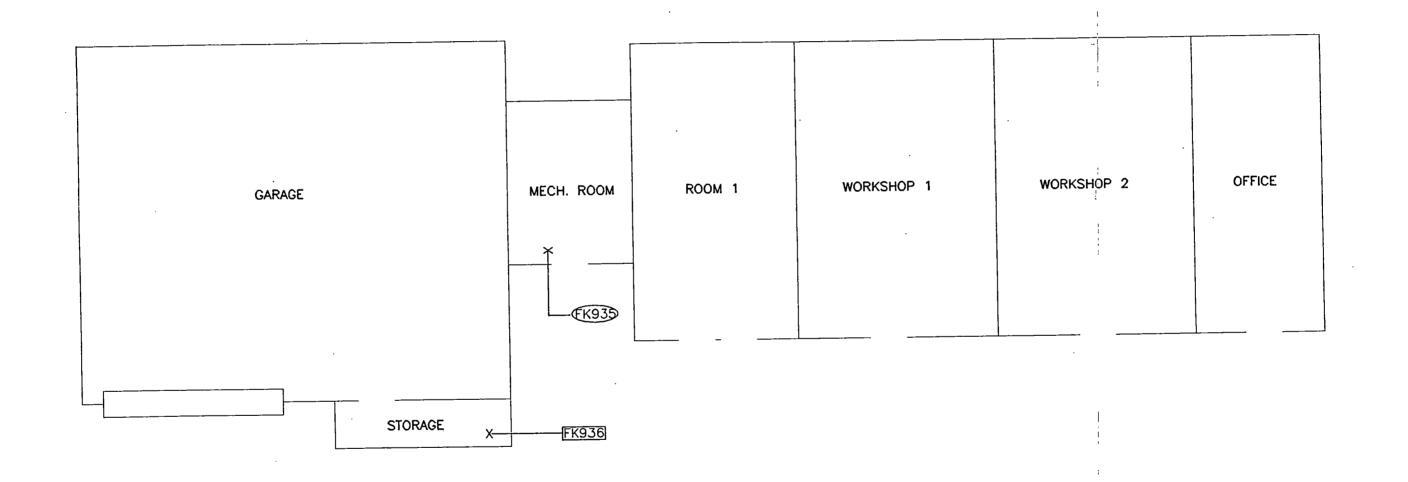
^{*}Amounts Are In Thousands Of Dollars

AREA 1: MECH. ROOM

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building



Bldg. 2564 Mech. Room: (Sample FK935) Transite Panel Located Above Furnace Tested Positive



BLDG. 2564 NOT TO SCALE

F (

NORTH

POSITIVE SAMPLE

FKNNN NEGATIVE SAMPLE

2564-9

2567 POST EXCHANGE

2567.1 GENERAL

Building 2567 was surveyed by WESTON's inspection team on 14 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 1 sample of suspect material collected from the building. This sample was found to be asbestoscontaining material (ACM). Table 2567.1 lists the analytical results for the bulk sample.

2567.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2567 are presented in Table 2567.1. An area-by-area inventory of ACM is provided in Tables 2567.2 and 2567.3. "Other Asbestos-Containing Materials," listed in Table 2567.3, are materials that do not correspond to the standard caption categories listed in Table 2567.2. A prioritized listing of exposure assessments is presented in Table 2567.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2567.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2567.2 and 2567.5.

2567.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 2567 found to be ACM.
- Asbestos-containing floor tile present in Building 2567 should be labeled under the O&M Program.

TABLE 2567.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2567, POST EXCHANGE

SAMPLE				PERCE			
NO.	LOCATION	ITEM	DESCRIPTION	CH	ÀΜ	OT	LAYERED
FK938 ST	DRE AREA	FLOOR TILE	TAN,OTH,FLOOR TILE	1	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

PIPE FITTINGS (EA)					PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOI LERS/	AIR HANDLING		
AREA	<4"	4-8"	9-14"	>14"	<411	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
STORE AREA		-							<u> </u>	1.34			
TOTALS	-	_	-	-		-	_	<u>-</u>	•	1.34		<u>-</u>	

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 2567.3

Other Asbestos-Containing Material - Building 2567, Post Exchange Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other	Asbestos-Containing Material Found in th	nis Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2567., POST EXCHANGE

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX		XPO	SURF	FAC	TORS	AVG.	*	
NO.	AREA	TYPE	CODE	NUMBER	<u> </u>	2	3	4	5	HOURS	ASB.	
FK814	STORE AREA	CEILING BOARD	A	0	2	1	1	2	4	40.00	0	

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

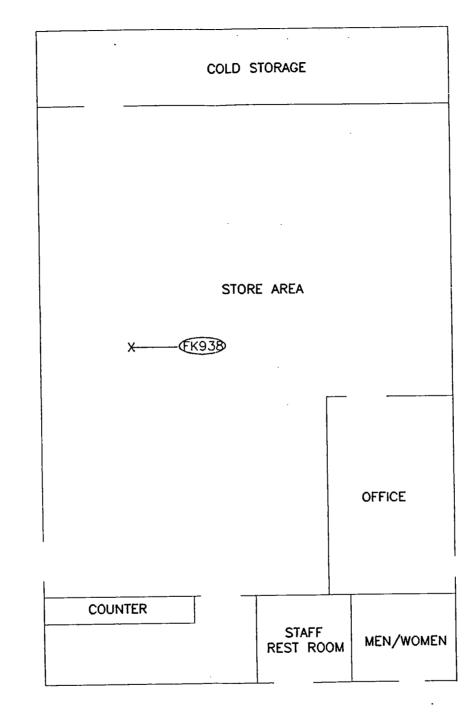
TABLE 2567.5 COST ESTIMATE* - BUILDING 2567, POST EXCHANGE

DESCRIPTION	UNIT COST (\$)	AREA	TOTAL
Pipe Fittings (EA) 4-8" 9-14" >14"	70.30 85.80 147.80 216.00	:	:
Pipe Runs (LF)		-	_
4-8" 9-14" >14"	26.50 30.50 42.50 60.80	:	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	7.5	7.5
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	, -	-
Other		-	-
SUBTOTAL		7.5	7.5
Difficulty Allowance	•	-	-
SUBTOTAL		7.5	7.5
Decontamination Units Mobilization		3: 8	3:8
SUBTOTAL		12.5	12.5
Contingency @ 15.00%		1.9	1.9
SUBTOTAL		14.4	14.4
Design Fee a 10.00%		1.4	1.4
SUBTOTAL		15.8	15.8
Air Monitoring a 10.00%	,	<u> </u>	1.6
TOTAL		17.4	17.4

^{*}Amounts Are In Thousands Of Dollars

AREA 1: STORE AREA

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 2567 NOT TO SCALE



FKnnn POSITIVE SAMPLE
FKnnn NEGATIVE SAMPLE

2567-7

STOREHOUSE

2570.1 GENERAL

Building 2570 was surveyed by WESTON's inspection team on 15 September 1992.

No suspect asbestos-containing material (ACM) was found in the building.

2570.2 CONCLUSION

Based on the inspection survey and other information made available to WESTON, we conclude that accessible areas of Building 2570 do not contain ACM.

ADMINISTRATION

9006.1 GENERAL

Building 9006 was surveyed by WESTON's inspection team on 23 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of a pipe run and fitting insulation sample location is provided in Subsection 9006.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze six samples of suspect material collected from the building. Of these samples, five were found to be asbestos-containing materials (ACM). Table 9006.1 lists the analytical results for the bulk samples.

9006.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9006 are presented in Table 9006.1. An area-by-area inventory of ACM is provided in Tables 9006.2 and 9006.3. "Other Asbestos-Containing Materials," listed in Table 9006.3, are materials that do not correspond to the standard caption categories listed in Table 9006.2. A prioritized listing of exposure assessments is presented in Table 9006.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9006.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9006.2 and 9006.5.

9006.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9006 are:
 - Floor tile
 - Pipe insulation
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9006.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9006, ADMINISTRATION

SAMPLE				<u>PERCI</u>	<u>ent asbi</u>	<u>estos</u>	
NO.	LOCATION	ITEM	DESCRIPTION	CH_	AM	OT	LAYERED
FK980	OPEN OFFICE	FLOOR TILE	BROWN,OTH,FLOOR TILE	7	-	-	NO
FK981	MEN'S ROOM	FLOOR TILE	BLACK, OTH, FLOOR TILE	7	-	-	NO
FK982	OPEN OFFICE	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUT TILE	•	-	-	YES
FK983	LADIES' ROOM	FLOOR TILE	GREEN, OTH, FLOOR TILE	3	-	-	NO
FK984	ATTIC 1	<4" PIPE FITTING	GRAY,UNK,FITT.INSUL	60	-	-	NO
FK985	ATTIC 1	<4" PIPE RUN	GRAY,UNK,PIPE RUN	40	-	-	NO

 $^{^{\}mathbf{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 9006.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9006, ADMINISTRATION

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<u> </u>	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
ATTIC 1	20	_	-	-	130	-	-	-	-	-	-	-	-
ATTIC 2	6	-	_	-	30	-	-	-	•	-	-	-	-
ADIES' ROOM	-	-	-	-	-	-	-	-	•	0.03	-	-	-
MECH. ROOM	14	-	-	-	70	-	-	-	-	-	-	-	-
MEN'S ROOM	-	-	_	-	-	-	-	-	-	0.05	-	-	
OFFICE 1	-	_	_	-	-	-	_	-	-	0.36	-	-	-
OFFICE 2	-	-	-	-	-	-	-	-	-	0.11	-	•	-
OFFICE 3	_	_	_	-	-	-	-	-	-	0.32	-	-	:
OFFICE 4	-	-	-	-	-	-	-	-	-	0.20	-	-	-
OFFICE 5	_	-	-	-	-	-	-	-	-	0.13	-	-	-
OFFICE 6	-	-	-	_	_	-	-	-	-	0.80	-	-	-
OFFICE 7	-	-	-	-		-	-	-	-	0.18	-	-	-
OFFICE 8		-	-	_		-	-	-	-	0.10	-	-	-
PEN OFFICE	<u> </u>				-				<u> </u>	0.88			<u>-</u>
OTALS	40	_	-	-	230_	_		-	-	3.16	•	-	_

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9006.3

Other Asbestos-Containing Material - Building 9006, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other	Asbestos-Containing Material Found in the	his Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9006.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9006, ADMINISTRATION

SAMPLE		MATERIAL	PRIOR. INDEX	INDEX	<u>EX</u>	POS	URE	FAC	TORS	AVG. EXP. HOURS	% ASB.	
NO.	AREA	TYPE	CODE	NUMBER			<u> </u>	4		HOOKS	A3D.	
FK984	ATTIC 1	<4" PIPE FITTING	В	1.840E02	2	2	2	1	1	8.00	60	
FK984	ATTIC 2	<4" PIPE FITTING	В	1.840E02	2	2.	2	1	1	8.00	60	
FK984	MECH. ROOM	<4" PIPE FITTING	В	1.840E02	2	2	2	1	1	8.00	60	
FK985	ATTIC 1	<4" PIPE RUN	В	1.840E02	2	2	2	1	1	8.00	40	
FK985	ATTIC 2	<4" PIPE RUN	В	1.840E02	2	2	2	1	1	8.00	40	
FK985	MECH. ROOM	<4" PIPE RUN	В	1.840E02	2	2	2	1	1	8.00	40	
FK814	1ST FL ENTIRE	CEILING BOARD	Ā	0	3	2	1	2	12	40.00	0	
FK982	OFFICE 1	ACOUSTICAL WALL TILE	A	Ō	3	2	1	2	12	40.00	0	
FK982	OFFICE 2	ACOUSTICAL WALL TILE	A	0	3	2	1	2	12	40.00	0	
FK982	OFFICE 3	ACOUSTICAL WALL TILE	Ä	Ö	3	2	1	2	12	40.00	0	
FK982	OPEN OFFICE	ACOUSTICAL WALL TILE	A	Ō	3	2	1	2	12	40.00	0	

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9006.5 COST ESTIMATE* - BUILDING 9006, ADMINISTRATION

DESCRIPTION	UNIT COST (\$)	AREA	AREA	AREA	AREA 4	AREA	AREA	AREA	AREA 8	ARE	AREA 10	AREA 11
Pipe Fittings (EA) 44" 9-14" >14"	70.30 155.80 216.00	1.4	0.4	=	1.0	= = = = = = = = = = = = = = = = = = = =	:	:	:	:	:	Ë
Pipe Runs (LF) 4-8" 9-14" >14"	26.50 30.50 60.80	3.4 -	0.8	:	1.9	:	:	:	:	:	:	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	0.2	-	0.3	2.0	0.6	1.8	1.1	0.7	4.5
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	•	•
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	•	-	-	-	-
Other		-	-	-	-	-	-	- .	-	•	-	-
SUBTOTAL		4.9	1.2	0.2	2.8	0.3	2.0	0.6	1.8	1.1	0.7	4.5
Difficulty Allowance		17.0	4.3	-	4.3	-	-	-	-	-	. •	-
SUBTOTAL		21.8	5.5	0.2	7.1	0.3	2.0	0.6	1.8	1.1	0.7	4.5
Decontamination Units Mobilization		8:3	8:3	8:3	8:3	8:3	8:3	8:3	8:3	8:3	8:3	8:3
SUBTOTAL		22.3	5.9	0.6	7.6	0.7	2.5	1.1	2.3	1.6	1.2	4.9
Contingency a 15.00%		3.3	0.9	**	1.1	0.1	0.4	0.2	0.3	0.2	0.2	0.7
SUBTOTAL		25.6	6.8	0.7	8.7	0.9	2.9	1.2	2.6	1.8	1.4	5.7
Design Fee @ 10.00%	,	2.6	0.7	**	0.9	**	0.3	0.1	0.3	0.2	0.1	0.6
SUBTOTAL		28.2	7.5	0.8	9.6	0.9	3.1	1.4	2.9	2.0	1.5	6.3
Air Monitoring a 10.00%	K***	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL		28.7	8.0	1.3	10.1	1.5	3.7	1.9	3.4	2.5	2.0	6.8

^{*}Amounts Are In Thousands Of Dollars





^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building

TABLE 9006.5 (continued) COST ESTIMATE* - BUILDING 9006, ADMINISTRATION

DESCRIPTION	UNIT COST (\$)	AREA	AREA	AREA	TOTAL
Pipe Fittings (EA) 44" 4-8" 9-14" >14"	70.30 85.80 127.80 216.00	= =	-	:	2.8
Pipe Runs (LF) 44" 9-14" >14"	26.50 30.50 60.80	:	:	:	6.1 -
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-
Floor Tile (SF)	5.60	1.0	0.6	4.9	17.7
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	•	-	-
SUBTOTAL		1.0	0.6	4.9	26.6
Difficulty Allowance		-	-	•	25.5
SUBTOTAL		1.0	0.6	4.9	52.1
Decontamination Units Mobilization		0.3 8.1	8:3	8:₹	ź: 8
SUBTOTAL		1.5	1.0	5.4	58.6
Contingency a 15.00%		0.2	0.2	0.8	8.8
SUBTOTAL		1.7	1.2	6.2	67.4
Design Fee a 10.00%	,	0.2	0.1	0.6	6.7
SUBTOTAL	***	1.9	1.3	6.8	74.1
Air Monitoring a 10.00%	, 	0.5	0.5	0.5	7.4
TOTAL		2.4	1.8	7.4	81.5

^{*}Amounts Are In Thousands Of Dollars

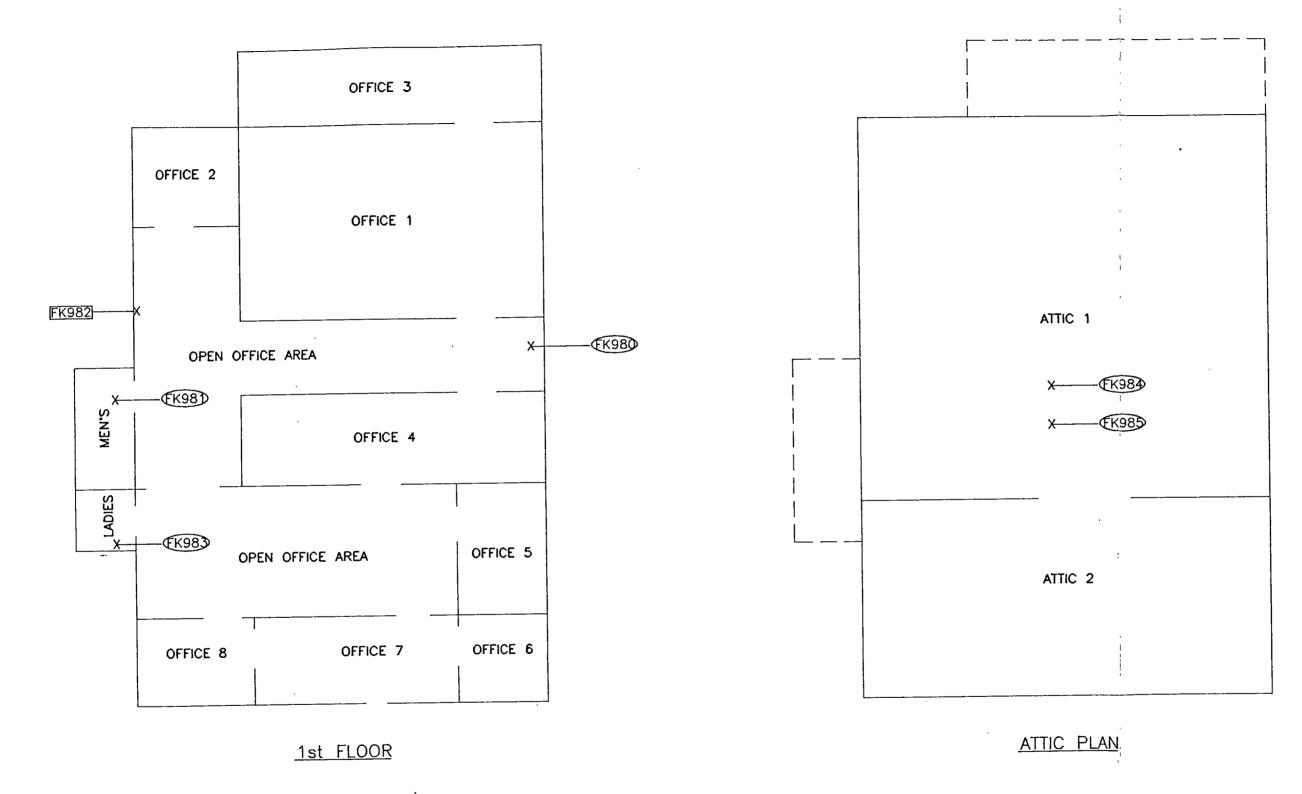
AREA 12: OFFICE 7

^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
***The Minimum Air Monitoring Fee is \$500.00 Per Building

9006.4 PHOTOGRAPH



Bldg. 9006 Attic: (Sample(s) FK984 and 985) <4" Pipe Run and Fitting Insulation Tested Positive



BLDG. 9006
NOT TO SCALE





9006-10

HEAT PLANT

9012.1 GENERAL

Building 9012 was surveyed by WESTON's inspection team on 23 September 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be nonasbestoscontaining material (non-ACM).

The location, description, and analytical results for the bulk sample from Building 9012 are presented in Table 9012.1.

9012.2 CONCLUSION

Based on the survey and the laboratory results of the sample collected in Building 9012, WESTON concludes that accessible areas of Building 9012 do not contain ACM.

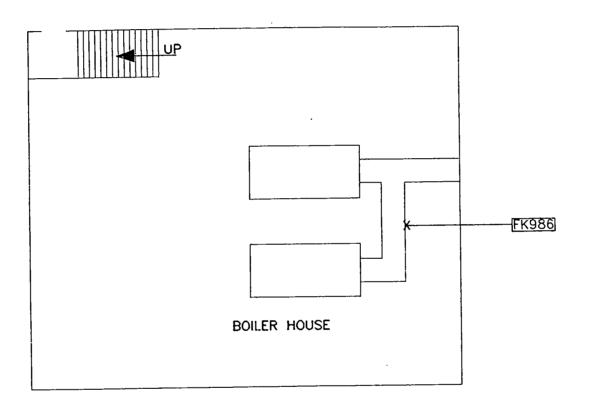
TABLE 9012.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9012, HEAT PLANT

SAMPLE				PERCE	NT ASBE	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK986 MECH.	ROOM	OTHER MATERIAL	WHITE, OTH, BRH INSUL	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		



BLDG. 9012 NOT TO SCALE





LABORATORY

9013.1 GENERAL

Building 9013 was surveyed by WESTON's inspection team on 28 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Both samples were found to be asbestoscontaining materials (ACM). Table 9013.1 lists the analytical results for the bulk samples.

9013.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9013 are presented in Table 9013.1. An area-by-area inventory of ACM is provided in Tables 9013.2 and 9013.3. "Other Asbestos-Containing Materials," listed in Table 9013.3, are materials that do not correspond to the standard caption categories listed in Table 9013.2. A prioritized listing of exposure assessments is presented in Table 9013.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9013.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9013.2 and 9013.5.

9013.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9013 found to be ACM.
- Asbestos-containing floor tile present in Building 9013 should be labeled under the O&M Program.

TABLE 9013.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9013, LABORATORY

SAMPLE				PERCE	ENT ASB	<u>estos</u>	_
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK996	WORK SHOP - ENTIRE	FLOOR TILE	TAN,OTH,FLOOR TILE	3	-	-	YES
	BATHROOM	FLOOR TILE	BLACK,OTH,FLOOR TILE	7	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 9013.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9013, LABORATORY

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
BATHROOM	_	_	-	-	-	_	-	-	-	0.10	_	-	-
NORK SHOP - ENTIRE	<u> </u>				:				<u> </u>	5.00			
TOTALS	-	_	_	-	_	_	_		-	5.10	_	-	-

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9013.3

Other Asbestos-Containing Material - Building 9013, Laboratory Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other	Asbestos-Containing Material Found in th	nis Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9013.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9013, LABORATORY

			PRIOR.	PRIORITY		AVG.	
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	X
NO.	AREA	<u> </u>	CODE	NUMBER	1 2 3 4 5	HOURS	ASB.

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9013.5 COST ESTIMATE* - BUILDING 9013, LABORATORY

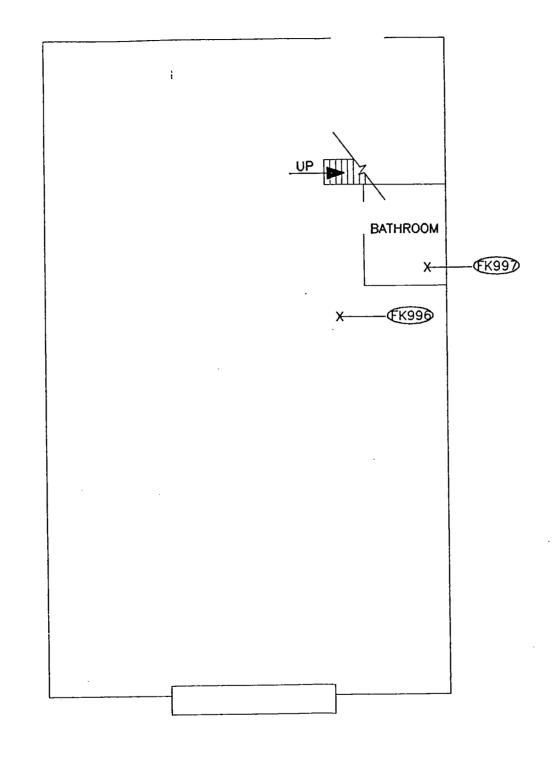
DESCRIPTION	UNIT COST (\$)	AREA	AREA	TOTAL
Pipe Fittings (EA)			<u> </u>	TOTAL
4-8"	70.30 85.80 147.00 216.00	<u>.</u>	-	=
4-8" 9-14" >14"	216:88	:	:	-
Pipe Runs (LF)	26 50		-	
4-8" 9-14" >14"	26.50 30.50 42.50 60.80	=	:	-
>14 ¹¹	<u> </u>	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	0.6	28.0	28.6
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	· -
Other		-	-	-
SUBTOTAL		0.6	28.0	28.6
Difficulty Allowance		-	-	-
SUBTOTAL		0.6	28.0	28.6
Decontamination Units Mobilization		1:8	1:8	3:8
SUBTOTAL		3.1	30.5	33.6
Contingency a 15.00%		0.5	4.6	5.0
SUBTOTAL		3.5	35.1	38.6
Design Fee a 10.00%	•	0.4	3.5	3.9
SUBTOTAL	***	3.9	38.6	42.5
Air Monitoring @ 10.00%	***	<u>2.1</u>	2.1	4.2
TOTAL		6.0	40.7	46.7

^{*}Amounts Are In Thousands Of Dollars

AREA 1: BATHROOM

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9013 NOT TO SCALE





ADMINISTRATION

9027.1 GENERAL

Building 9027 was surveyed by WESTON's inspection team on 28 September 1992.

The first three portions of this facility report summarize the results of this inspection. Photographs of pipe run and fitting insulation sample locations are provided in Subsection 9027.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. Of these samples, all three were found to be asbestos-containing materials (ACM). Table 9027.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing floor tile (12" x 12" tan) was found in the entire first-floor area of Building 9027. This material was not sampled; instead it was referenced to a similar floor tile found in Building 9013, which was tested to be ACM.

9027.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9027 are presented in Table 9027.1. An area-by-area inventory of ACM is provided in Tables 9027.2 and 9027.3. "Other Asbestos-Containing Materials," listed in Table 9027.3, are materials that do not correspond to the standard caption categories listed in Table 9027.2. A prioritized listing of exposure assessments is presented in Table 9027.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9027.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL

BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9027.2 and 9027.5.

9027.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9027 are:
 - Pipe insulation
 - Floor tile
- The attic in Building 9027 qualifies for the Army Asbestos Deficiency Abatement Project (AADAP).
- Asbestos-containing floor tile present in Building 9027 should be labeled under the O&M Program.

TABLE 9027.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9027, ADMINISTRATION

SAMPLE				PERCE	NT_ASBE	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	ĂM	OT	LAYERED
FK998 A	TTIC	4-8" PIPE FITTING	GRAY,UNK,FITT.INSUL	45	•	-	NO
	TTIC	4-8" PIPE RUN	GRAY,UNK,PIPE RUN	60	-	-	NO
	TTIC	4-8" PIPE RUN	GRAY, UNK, PIPE RUN	3	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center ·	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

TABLE 9027.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9027, ADMINISTRATION

	_ 1	PIPE FITT	INGS (EA)		PIPE RUI	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<411	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
1ST FL ENTIRE		-	-	_	_	_	-	-	-	3.60	-	-	-
ATTIC	- 	60	-			650		<u>-</u>					<u>-</u>
OTALS	-	60	_	-	-	650	-	-	-	3.60	-		_

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9027.3

Other Asbestos-Containing Material - Building 9027, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other A	Asbestos-Containing Material Found in the	nis Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9027.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9027, ADMINISTRATION

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POS	URE	FAC	TORS	AVG. Exp.	%
NO.	AREA	TYPE	CODE	NUMBER	1	2	3	4	5	HOURS	ASB.
FK998	ATTIC	4-8" PIPE FITTING	С	1.060E03	3	2	2	1	1	8.00	45
FK998	ATTIC	4-8" PIPE FITTING	Ċ	1.060E03	3	2	2	1	1	8.00	45
FK999	ATTIC	4-8" PIPE RUN	С	1.060E03	3	2	2	1	1	8.00	60
HF500	ATTIC	4-8" PIPE RUN	A	6.600E01	3	2	2	1	1	8.00	3
FK979	1ST FL ENTIRE	CEILING TILE	Α	0	1	1	1	1	12	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9027.5 COST ESTIMATE* - BUILDING 9027, ADMINISTRATION

DESCRIPTION	UNIT COST (\$)	AREA	AREA	TOTAL				
Pipe Fittings (EA)	•	·	<u> </u>		• •			
4-8" 9-14" >14"	70.30 85.80 147.00 216.00	=	5.1	5.1				
Pipe Runs (LF)		_	_	_				
3-8" 9-74" >14"	26.50 30.50 42.50 60.80	=	19.8	19.8				
	60.80	-	•	-				
Sprayed/Troweled Ceilings (SF)	9.60		•	-				
Floor Tile (SF)	5.60	20.2	-	20.2				
Boilers/Tanks (SF)	37.90		-	-				
Air Handling Equipment (SF)	20.00	-	-	-				
Other		-	25.0	- /E 1				,
SUBTOTAL Difficulty Allowance		20.2	25.0 49.9	45.1 49.9				
SUBTOTAL	•	20.2	74.9	95.1				
Decontamination Units Mobilization		2:3	2:3	4: 5				
SUBTOTAL	•	23.4	78.2	101.6				
Contingency a 15.00%		3.5	11.7	15.2		•	•	•
SUBTOTAL		26.9	89.9	116.8				
Design Fee @ 10.00%	•	2.7	9.0	11.7		~		
SUBTOTAL	***	29.6	98.9	128.5				
Air Monitoring a 10.00% TOTAL		<u>6.4</u> 36.0	<u>6.4</u> 105.3	<u>12.8</u> 141.3				

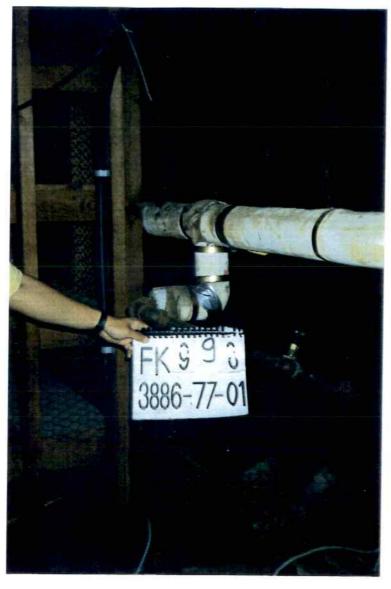
^{*}Amounts Are In Thousands Of Dollars

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

****The Minimum Air Monitoring Fee is \$500.00 Per Building

9027.4

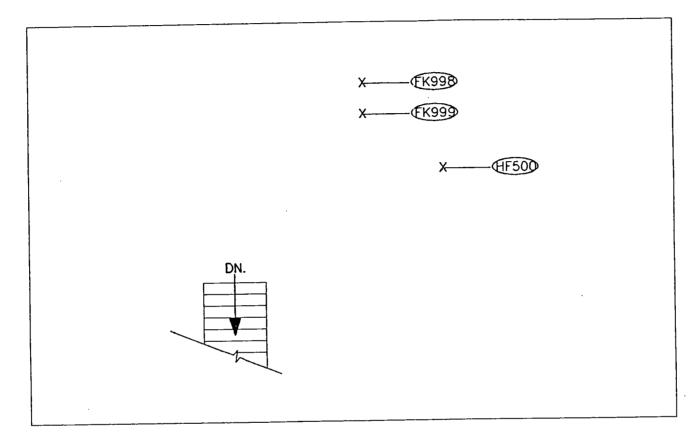
PHOTOGRAPHS



Bldg. 9027 Attic: (Sample FK998 and 999) 4"-8" Pipe Run and Fitting Insulation Tested Positive



Bldg. 9027 Attic: (Sample HF500) 4"-8" Pipe Run Insulation Located at the Floor Level of the Attic and Tested Positive



ATTIC PLAN

BLDG. 9027 NOT TO SCALE





ADMINISTRATION

9029.1 GENERAL

Building 9029 was surveyed by WESTON's inspection team on 28 September 1992.

The first three portions of this facility report summarize the results of this inspection. Photographs of pipe run, fitting, and attic insulation sample locations are provided in Subsection 9029.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze six samples of suspect material collected from the building. Of these samples, five were found to be asbestos-containing materials (ACM). Table 9029.1 lists the analytical results for the bulk samples.

9029.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9029 are presented in Table 9029.1. An area-by-area inventory of ACM is provided in Tables 9029.2 and 9029.3. "Other Asbestos-Containing Materials," listed in Table 9029.3, are materials that do not correspond to the standard caption categories listed in Table 9029.2. A prioritized listing of exposure assessments is presented in Table 9029.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9029.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9029.2 and 9029.5.

9029.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9029 are:
 - Pipe insulation
 - Floor tile
 - Blown-in ceiling insulation
- The attic in Building 9029 qualifies for the Army Asbestos Deficiency Abatement Project (AADAP).
- Asbestos-containing floor tile present in Building 9029 should be labeled under the O&M Program.

TABLE 9029.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9029, ADMINISTRATION

SAMPLE				PERCI	ENT ASBI	<u>ESTOS</u>	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED'
FK990	HALLWAY	FLOOR TILE	BLACK,OTH,FLOOR TILE	7	-	-	NO
FK991	ATTIC	4-8" PIPE FITTING	GRAY, UNK, FITT. INSUL	55	-	-	YES
FK992	ATTIC	4-8" PIPE RUN	GRAY,UNK,PIPE RUN	65	-	-	NO
FK993	ATTIC	4-8" PIPE RUN	GRAY,UNK,PPE RUN	7	-	-	NO
FK994	ATTIC	OTHER MATERIAL	GRAY,OTH,CEIL INSUL	7	50	-	NO
FK995	OFFICE AREA-SOUTH	ACOUSTICAL WALL TILE	WHITE, OTH, ACOUS. TILE	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

TABLE 9029.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9029, ADMINISTRATION

	PI	PE FITT	INGS (EA)			PIPE RUI	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-8"	9-14"	>14"	<4 ¹¹	4-8"	9-14"_	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTH
TTIC	_	60	-	-	_	650	-	-	_	-	-	•	*
ALLWAY	_	-	-	_	-	•	-	-	-	0.60	-	-	-
FICES-NORTH SIDE	-	-	-	-	-	-	-	-	-	1.50	-	•	-
FFICES-SOUTH SIDE		-		<u> </u>		<u> </u>		-		1.50		•	
OTALS	_	60	_	_	_	650	_	_	-	3.60	•	-	*

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9029.3

Other Asbestos-Containing Material - Building 9029, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Attic	Blown-in Ceiling Insulation	3.600 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9029.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9029, ADMINISTRATION

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POS	URE	FAC	TORS_	AVG. Exp.	×	
NO.	AREA	TYPE	CODE	NUMBER	1_1_	2	3	4	5	HOURS	ASB.	
FK991	ATTIC	4-8" PIPE FITTING	С	6.000E03	3	2	2	2	1	8.00	55	
FK991	ATTIC	4-8" PIPE FITTING	č	6.000E03	3	2	2	2	1	8.00	55	
FK992	ATTIC	4-8" PIPE RUN	C	6.000E03	3	2	2	2	1	8.00	65	
FK994	ATTIC	INSULATION BOARD	C	6.000E03	3	2	2	2	1	8.00	57	
FK993	ATTIC	4-8" PIPE RUN	В	3.800E02	3	2	2	2	1	8.00	7	
FK982	OFFICE AREA-NORTH	ACOUSTICAL WALL TILE	Α	0.	2	2	1	2	10	40.00	0	
FK995	OFFICE AREA-SOUTH	ACOUSTICAL WALL TILE	Α	0`	2	2	1	2	10	40.00	0	

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

- Exposure Factors
 1 [=] Material Friability
 2 [=] Occupant Accessability
 3 [=] Material Condition

- 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9029.5 COST ESTIMATE* - BUILDING 9029, ADMINISTRATION

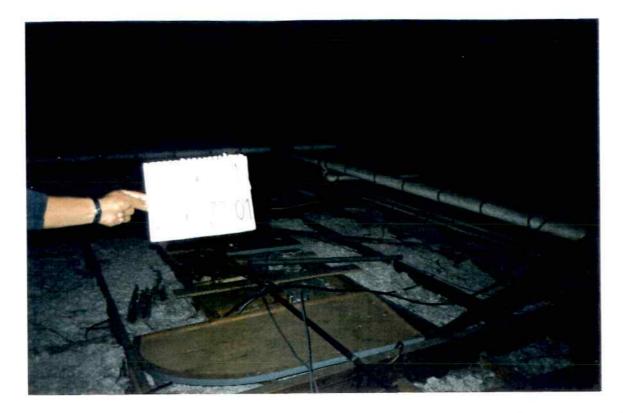
DESCRIPTION	COST (\$)	AREA	AREA 2	AREA	AREA 4	TOTAL
Pipe Fittings (EA)	72-30	5:1	•		:	Ē 1
4-8" 9-14" >14"	70.30 85.80 147.00 216.00	2.1	=	=	:	5.1 -
Pipe Runs (LF)	26.50	-	_	_	_	
4-8" 9-14" >14"	26.50 30.50 42.50 60.80	19.8 -	:	:	-	19.8
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	-	3.4	8.4	8.4	20.2
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	•	-
Other		15.1	-	-	-	15.1
SUBTOTAL		40.1	3.4	8.4	8.4	60.3
Difficulty Allowance		73.3	-	-	-	73.3
SUBTOTAL.		113.4	3.4	8.4	8.4	133.6
Decontamination Units Mobilization		8:5	∂: 3	∂: ₹	1: 5	ź: δ
SUBTOTAL		115.1	5.0	10.0	10.0	140.1
Contingency a 15.00%		17.3	0.7	1.5	1.5	21.0
SUBTOTAL		132.3	5.7	11.5	11.5	161.1
Design Fee @ 10.00%	1	13.2	0.6	1.2	1.2	16.1
SUBTOTAL		145.5	6.3	12.7	12.7	177.2
Air Monitoring a 10.00%	,***	4.4	4.4	<u>4.4</u>	4.4	<u> 17.7</u>
TOTAL		150.0	10.7	17.1	<u> 17.1</u>	194.9

^{*}Amounts Are In Thousands Of Dollars

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building

9029.4

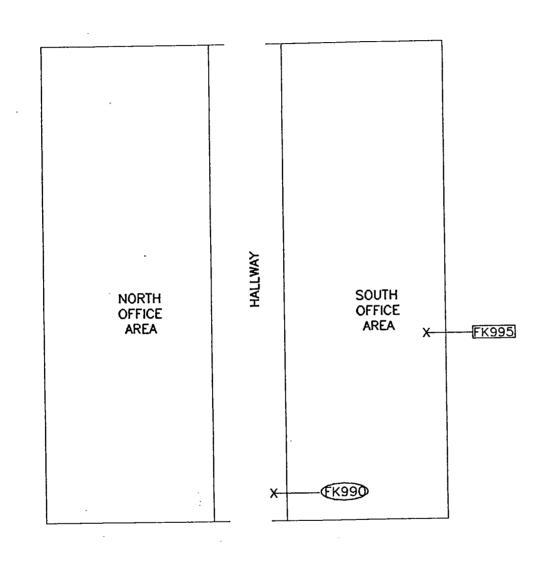
PHOTOGRAPHS

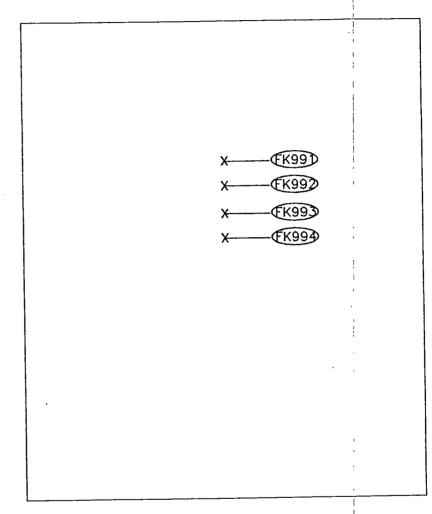


Bldg. 9029 Attic: (Sample(s) FK991 and 992) 4"-8" Pipe Run and Fitting Insulation Tested Positive



Bldg. 9029 Attic: (Sample FK994) Attic Insulation Tested Positive





1st FLOOR

ATTIC PLAN

BLDG. 9029 NOT TO SCALE





HEAT PLANT

9030.1 GENERAL

Building 9030 was surveyed by WESTON's inspection team on 23 September 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be asbestoscontaining material (ACM).

The location, description, and analytical results for each bulk sample from Building 9030 are presented in Table 9030.1.

9030.3 CONCLUSION

Based on the survey and the laboratory results of the sample collected in Building 9030, WESTON concludes that accessible areas of Building 9030 do not contain ACM.

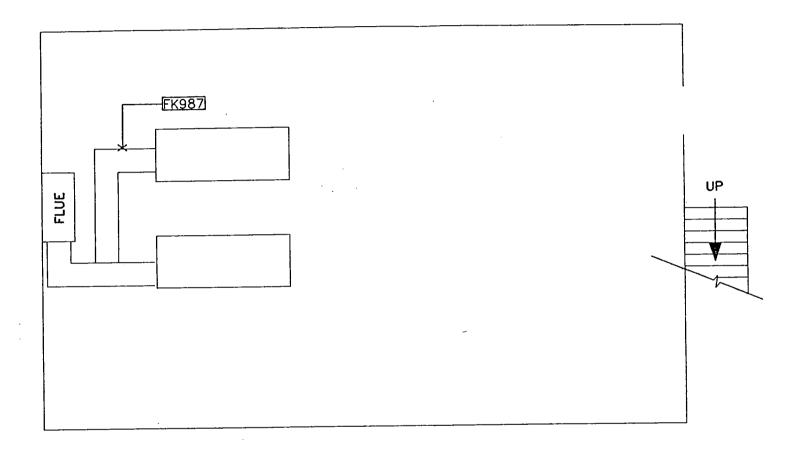
TABLE 9030.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9030, HEAT PLANT

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCE	NT ASBE	STOS	LAYERED
	CH. ROOM	OTHER MATERIAL	WHITE,OTH,BRH INSUL	•	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
Cil - Couthwest		



BLDG. 9030 NOT TO SCALE NORTH

POSITIVE SAMPLE

FKNNN NEGATIVE SAMPLE

WANAGERS DESIGNERS (CONSULTANTS

HEAT PLANT

9035.1 GENERAL

Building 9035 was surveyed by WESTON's inspection team on 23 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of a pipe run insulation sample location is provided in Subsection 9035.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 9035.1 lists the analytical results for the bulk samples.

9035.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9035 are presented in Table 9035.1. An area-by-area inventory of ACM is provided in Tables 9035.2 and 9035.3. "Other Asbestos-Containing Materials," listed in Table 9035.3, are materials that do not correspond to the standard caption categories listed in Table 9035.2. A prioritized listing of exposure assessments is presented in Table 9035.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9035.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9035.2 and 9035.5.

)

9035.3 RECOMMENDATIONS/CONCLUSIONS

- Pipe insulation (located in the pipe tunnel) was the material in Building 9035 found to be ACM.
- The ACM listed above should be labeled under the O&M Program.

TABLE 9035.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9035, HEAT PLANT

SAMPLE				PERCE	NT ASB	ESTOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK975 MECH.	ROOM	OTHER MATERIAL	WHITE,OTH,BRH INSULA	-	-		YES
	TUNNEL	4-8" PIPE RUN	BLACK, UNK, PIPE INSUL	10	-	-	YES

 $^{^{\}mathbf{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

SE = Southeast
SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite OT = Other
E = East S = South	HHW = Heating Hot Water DOM = Domestic Water	or = other
W = West	OTH = Other	•
NE = Northeast	UNK = Unknown	
NV = Northwest		

	P1	PE FITT	INGS (EA)			PIPE RU			SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-811	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
PIPE TUNNEL				:		100							<u>.</u>
TOTALS	_	<u>-</u>			<u> </u>	100		<u> </u>	-	-	-		<u> </u>

^{*} Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 9035.3

Other Asbestos-Containing Material - Building 9035, Heat Plant Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)								
No Other	No Other Asbestos-Containing Material Found in this Building									

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9035, HEAT PLANT

	AMPLE	AREA	MATERIAL Type	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	<u>EX</u>	POS 2	URE 3	FAI	CTORS 5	AVG. EXP. HOURS	% ASB.	
F	K976	PIPE TUNNEL	4-8" PIPE RUN	В	1.380E02	2	2	1	2	1	8.00	10	

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9035.5 COST ESTIMATE* - BUILDING 9035, HEAT PLANT

	LIMITT	ADEA	
DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)	79-30	-	-
4 ⁻ 8" 9-14" >14"	70.30 25.80 216.88	:	Ξ
Pipe Runs (LF)	26 50	_	_
2-8" 9-14" >14"	26-50 30-50 22-50 60-80	3.1	3.1
	20:80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	•	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		3.1	3.1
Difficulty Allowance		9.2	9.2
SUBTOTAL		12.2	12.2
Decontamination Units Mobilization		2:8	2:5
SUBTOTAL		. 15.7	15.7
Contingency a 15.00%		2.4	2.4
SUBTOTAL		18.1	18.1
Design Fee @ 10.00%	•	1.8	1.8
SUBTOTAL	**	19.9	19.9
Air Monitoring a 10.00%*			2.0
TOTAL		21.8	21.8

AREA 1: PIPE TUNNEL

^{*}Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

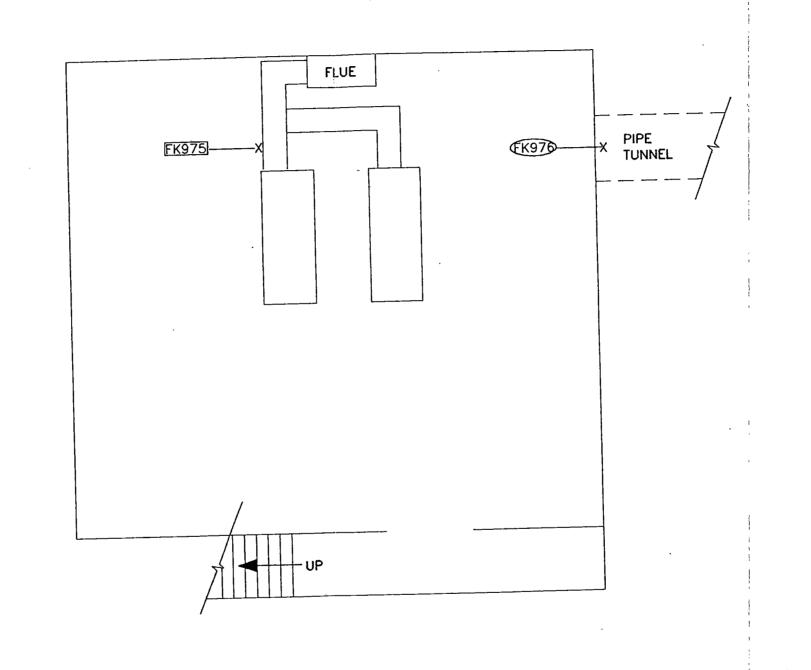
***The Minimum Air Monitoring Fee is \$500.00 Per Building

9035.4

PHOTOGRAPH



Bldg. 9035 Pipe Tunnel: (Sample FK976) 4"-8" Pipe Run Insulation Located in the (Pipe) Tunnel Tested Positive



BLDG. 9035 NOT TO SCALE





HEAT PLANT

9038.1 GENERAL

Building 9038 was surveyed by WESTON's inspection team on 23 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Assumed asbestos-containing floor tile (9" x 9" black) was found in the office area of Building 9038. This material was not sampled; instead it was referenced to a similar floor tile found in Building 9006, which was tested to be ACM.

9038.2 ACM AND EXPOSURE ASSESSMENT

An area-by-area inventory of ACM is provided in Tables 9038.2 and 9038.3. "Other Asbestos-Containing Materials," listed in Table 9038.3, are materials that do not correspond to the standard caption categories listed in Table 9038.2. A prioritized listing of exposure assessments is presented in Table 9038.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9038.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report.

9038.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile (located in the office area) was the material in Building 9038 found to be ACM.
- Asbestos-containing floor tile present in Building 9038 should be labeled under the O&M Program.

TABLE 9038.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9038, HEAT PLANT

SAMPLE				PERCE	NT ASBE	3103	LAVEDED 8
NO	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED

Suspect material noted in this building was correlated with material sampled from adjacent buildings. Those materials that tested positive (i.e. that contains asbestos) are reflected in the schematic floor plans of this discussion and are included in the cost estimates (labor and material expenses) shown in the following tables.

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 9038.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9038, HEAT PLANT

AREA	P1 <4"	PE FITT	INGS (EA) 9-14"	>14"	<4 ¹¹	PIPE RU 4-8"	INS (LF) 9-14"	>14"	SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
OFFICE	<u> </u>				<u> </u>					0.24			
TOTALS	_		<u>-</u>		-	-	-	•		0.24	-	<u> </u>	

Other Material Present In Various Units Of Measure

EA '- Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9038.3

Other Asbestos-Containing Material - Building 9038, Heat Plant Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)			
No Other	Asbestos-Containing Material Found in th	nis Building			

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9038.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9038, HEAT PLANT

			PRIOR.	PRIORITY		AVG.		
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	×	
NO.	AREA	TYPE	CODE	NUMBER	1 2 3 4 5	HOURS	ASB.	

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9038.5

COST ESTIMATE* - BUILDING 9038, HEAT PLANT

	UNIT	AREĄ		
DESCRIPTION	COST (\$)		TOTAL	
Pipe Fittings (EA) 2-8" 9-14" >14"	79-30 147-00 216-00	:	:	
Pipe Runs (LF) 4-8" 9-14" >14"	26.50 30.50 42.50 60.80	:	:	
Sprayed/Troweled Ceilings (SF)	9.60	•	-	
Floor Tile (SF)	5.60	1.3	1.3	
Boilers/Tanks (SF)	37.90	-	•	
Air Handling Equipment (SF)	20.00	-	-	
Other		-	-	
SUBTOTAL		1.3	1.3	
Difficulty Allowance			-	
SUBTOTAL		1.3	1.3	
Decontamination Units Mobilization		3:8	3:8	
SUBTOTAL		6.3	6.3	
Contingency a 15.00%		1.0	1.0	
SUBTOTAL		7.3	7.3	
Design Fee a 10.00%	1	0.7	0.7	
SUBTOTAL		8.0	. 8.0	
Air Monitoring a 10.00%**	· T	0.8	0.8	
TOTAL		8.8	8.8	

^{*}Amounts Are In Thousands Of Dollars

AREA 1: OFFICE

^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

^{***}The Minimum Air Monitoring Fee is \$500.00 Per Building

SIGNAL ADMINISTRATION

9043.1 GENERAL

Building 9043 was surveyed by WESTON's inspection team on 22 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of a pipe run and fitting insulation sample location is provided in Subsection 9043.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze six samples of suspect material collected from the building. Of these samples, all six were found to be asbestos-containing materials (ACM). Table 9043.1 lists the analytical results for the bulk samples.

9043.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9043 are presented in Table 9043.1. An area-by-area inventory of ACM is provided in Tables 9043.2 and 9043.3. "Other Asbestos-Containing Materials," listed in Table 9043.3, are materials that do not correspond to the standard caption categories listed in Table 9043.2. A prioritized listing of exposure assessments is presented in Table 9043.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9043.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9043.2 and 9043.5.

9043.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9043 are:
 - Floor tile
 - Pipe insulation
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9043.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9043, SIGNAL ADMINIST.

SAMPLE				PERCE	NT ASBI	ESTOS	-
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK951	1ST FL ENTIRE	FLOOR TILE	TAN,OTH,FLOOR TILE	2	-	-	NO
FK952	1ST FL ENTIRE	DUPLICATE SAMPLE	TAN,OTH,FLOOR TILE	2	-	-	NO
FK953	LADIES ROOM	<4" PIPE FITTING	GRAY,UNK,FITT.INSUL	30	-	-	YES
FK954	LADIES ROOM	<4" PIPE RUN	GRAY,UNK,PIPE INSUL	5	-	-	YES
FK955	ATTIC	4-8" PIPE FITTING	GRAY,UNK,PIPE FITT.	50	-	-	YES
FK956	ATTIC	4-8" PIPE RUN	GRAY, UNK, PIPE INSUL	20	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	<u>Asbestos Types</u>
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 9043.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9043, SIGNAL ADMINIST.

	PI	PE FITT	INGS (EA)	1		PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-811	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
ST FL ENTIRE	-	-	-	-	-	-	-	-	-	7.15	-	-	-
TIC	12	105	-	-	120	400	-	-	-	-	-	-	-
DIES ROOM	4	-	-	•	25	-	-	-		-	-	•	-
DOM 1		<u></u>			2			<u> </u>					
DTALS	16	105	_	_	147	400	-	-	-	7.15	-	<u> </u>	

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9043.3

Other Asbestos-Containing Material - Building 9043, Heat Plant Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)							
No Other Asbestos-Containing Material Found in this Building									

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9043.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9043, SIGNAL ADMINIST.

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POS	URE	FAC	TORS	AVG. Exp.	%
NO.	AREA	ТҮРЕ	CODE	NUMBER	1_	2	3	4	5	HOURS	ASB.
FK953	LADIES ROOM	<4" PIPE FITTING	В	2.400E02	2	2	1	1	4	20.00	30
FK954	LADIES ROOM	<4" PIPE RUN	Ā	4.200E01	2	2	1	1	4	20.00	5
FK954	ROOM 1	<4" PIPE RUN	Α	4.200E01	2	2	1	1	4	20.00	5
FK955	ATTIC	4-8" PIPE FITTING	A	2.300E01	2	2	2	1	1	1.00	50
FK953	ATTIC	<4" PIPE FITTING	Α	8.250E00	2	2	2	1	1	1.00	30
FK956	ATTIC	4-8" PIPE RUN	Α	8.250E00	2	2	2	1	1	1.00	20
FK954	ATTIC	<4" PIPE RUN	Ā	1.450E00	2	2	2	1	1	1.00	5
FK719	ROOM 3	EXPANSION JOINTS	Ā	0	1	2	1	2	5	16.00	0

<u>Priority Index Codes</u>
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability 3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9043.5 COST ESTIMATE* - BUILDING 9043, SIGNAL ADMINIST.

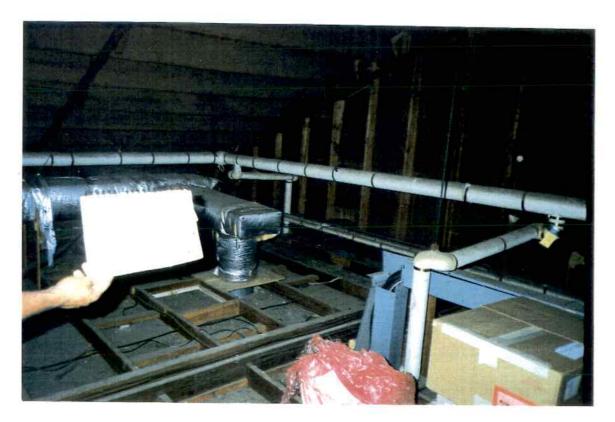
	•					
DESCRIPTION	UNIT COST (\$)	AREA	AREA	AREA 3	AREA	TOTAL
Pipe Fittings (EA) 4-8" 4-8" 5-14" >14"	70.30 85.80 147.80	:	§:8	0.3	:	3:1
Pipe Runs (LF) 4-8" 9-14" >14"	26-50 30-50 30-80	-	12:2	0.7 -	**	12.2
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	40.0	-	•		40.0
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other	·	-	-	-	-	-
SUBTOTAL		40.0	25.2	0.9	**	66.3
Difficulty Allowance		-	33.1	1.4	-	34.5
SUBTOTAL		40.0	58.3	2.4	. **	100.8
Decontamination Units Mobilization		1: ¹	∂: 5	1:5	d: 1	ź: δ
SUBTOTAL		41.7	59.9	4.0	1.7	107.3
Contingency a 15.00%		6.2	9.0	0.6	. 0.3	16.1
SUBTOTAL		47.9	68.9	4.6	1.9	123.4
Design Fee @ 10.00%		4.8	6.9	0.5	0.2	12.3
SUBTOTAL	***	52.7	75.8	5.0	2.1	135.7
Air Monitoring a 10.00%	ζ ***	3.4	<u>3.4</u>	3.4	3.4	<u>13.6</u>
TOTAL		56.1	79.2	8.4	5.5	149.3

^{*}Amounts Are In Thousands Of Dollars

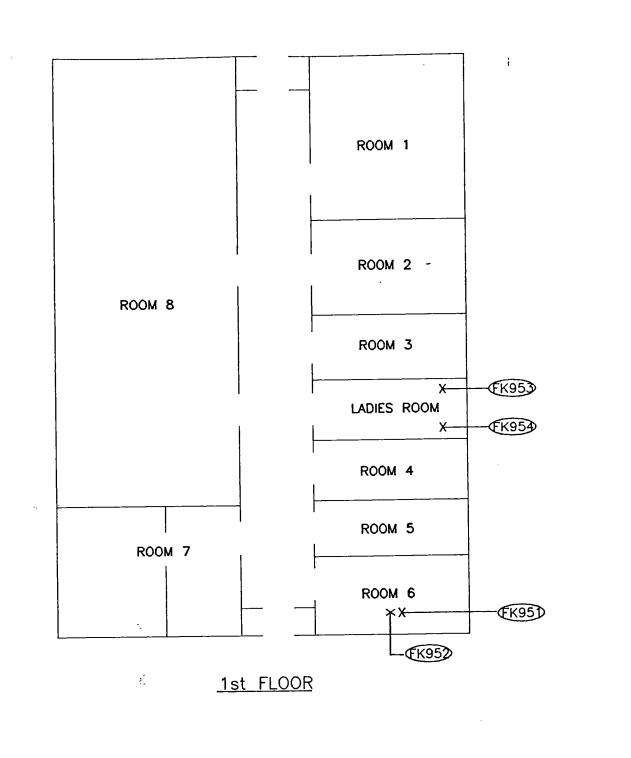
^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
***The Minimum Air Monitoring Fee is \$500.00 Per Building

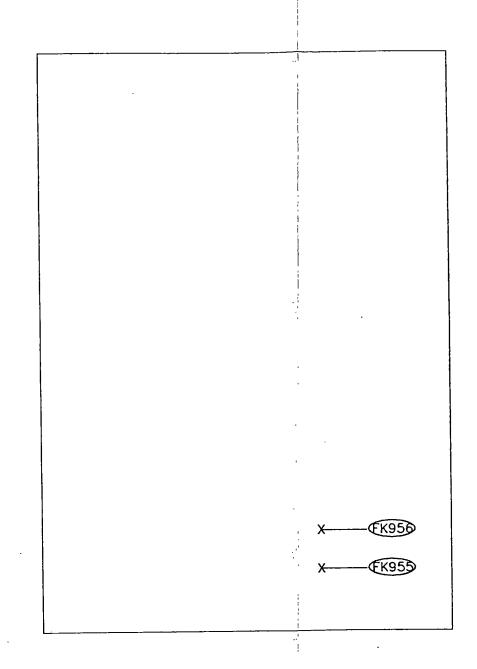
9043.4

PHOTOGRAPH



Bldg. 9043 Attic: (Sample(s) FK955 and 956) 4"-8" Pipe Run and Fitting Insulation Tested Positive





ATTIC PLAN

BLDG. 9043
NOT TO SCALE





MOTOR POOL

9044.1 GENERAL

Building 9044 was surveyed by WESTON's inspection team on 22 September 1992.

The first three portions of this facility report summarize the results of this inspection. Photographs of pipe run and fitting insulation sample locations are provided in Subsection 9044.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze eight samples of suspect material collected from the building. Of these samples, seven were found to be asbestos-containing materials (ACM). Table 9044.1 lists the analytical results for the bulk samples.

9044.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9044 are presented in Table 9044.1. An area-by-area inventory of ACM is provided in Tables 9044.2 and 9044.3. "Other Asbestos-Containing Materials," listed in Table 9044.3, are materials that do not correspond to the standard caption categories listed in Table 9044.2. A prioritized listing of exposure assessments is presented in Table 9044.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9044.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9044.2 and 9044.5.

9044.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9044 are:
 - Transite panel
 - Floor tile
 - Pipe insulation
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9044.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9044, MOTOR POOL

SAMPLE				PERC	ENT ASB	ESTOS	_
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED ^E
FK957	ROOM 6	FLOOR TILE	BROWN,OTH,FLOOR TILE	1	-	-	NO
FK958	ROOM 10	FLOOR TILE	TAN,OTH,FLOOR TILE	1	-	-	NO
FK959	ROOM 11-MEN'S ROOM	FLOOR TILE	RED,OTH,FLOOR TILE	-	-		YES
FK960	ROOM 11-MEN'S ROOM	4-8" PIPE FITTING	GRAY, UNK, FITT. INSUL	30	-	-	YES
FK961	ROOM 11-MEN'S ROOM	4-8" PIPE RUN	GRAY,UNK,PIPE RUN	60	-	-	YES
FK962	ROOM 5-UPPER LEVEL	<4" PIPE FITTING	GRAY, UNK, FITT. INSUL	65	-	-	YES
FK963	ROOM 5-UPPER LEVEL	<4" PIPE RUN	GRAY, UNK, PIPE RUN	40	•	-	YES
FK964	ROOM 2	FLOOR TILE	BLACK, OTH, FLOOR TILE	7	-	-	NO

 $^{^{\}mathrm{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

SE = Southeast SW = Southwest

Quadrant Codes	System Codes	Asbestos Types				
C = Center	STM = Steam	CH = Chrysotil				
N = North	CHW = Chilled Water	AM = Amosite				
E = East	HHW = Heating Hot Water	OT = Other				
S = South	DOM = Domestic Water					
W = West	OTH = Other					
NE = Northeast	UNK = Unknown					
NU = Northwest						

TABLE 9044.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9044, MOTOR POOL

	PI	PE FITT	NGS (EA)			PIPE RUI	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-811	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
MECH. ROOM	_	-	-	-	-	-	-	-	-	-	-	-	*
ROOM 10	-	-	-	-	-	-	•	-	-	0.45	-	-	-
ROOM 11-MEN'S ROOM	-	4	-	-	_	25	•	-	-	-	-	- •	-
ROOM 2	-	-	-	-	-	-	-	-	-	. 0.36	-	-	-
ROOM 5		-	_	- .	-	-	•	-	-	-	-	•	*
ROOM 5-UPPER LEVEL	8	-	-	-	20	-	-	-	-	-	-	-	-
ROOM 6	-	-	-	-	-	-	-	-	•	0.38	-	•	-
ROOM 8-OFFICE	-	-	-	-	-	-	-	-	-	0.23	-	-	-
WORK BAY-(THRU-OUT)	-	25	-	-	-	250	-	-	-	-	-	-	-
WORK BAY-ABOVE CEIL.	<u>41</u>				<u>390</u>	-		<u></u>		 .			<u> </u>
TOTALS	49	29	-	•	410	275		-		1.41	<u>-</u>		*

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9044.3

Other Asbestos-Containing Material - Building 9044, Motor Pool Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Mechanical Room	Transite Panel	0.020 (MSF)
Room 5	Transite Panel	0.020 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9044.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) -BUILDING 9044, MOTOR POOL

SAMPLE NO.	AREA	MATERIAL Type	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EX	POS 2	URE 3	FAI	CTORS 5	AVG. EXP. HOURS	% ASB.	
FK961	ROOM 11-MEN'S ROOM	4-8" PIPE RUN	В	7.600E02	2	2	1	2	2	8.00	60	
FK960	ROOM 11-MEN'S ROOM	4-8" PIPE FITTING	В	2.760E02	2	2	1	2	2	8.00	30	
FK961	WORK BAY-(THRU-OUT)	4-8" PIPE RUN	A	1.160E01	2	1	1	2	2	40.00	60	
FK962	ROOM 5-UPPER LEVEL	<4" PIPE FITTING	A	1.160E01	2	1	1	2	2	40.00	65	
FK962	WORK BAY-ABOVE CEIL.	<4" PIPE FITTING	A	1.160E01	2	1	1	2	2	40.00	65	
FK963	ROOM 5-UPPER LEVEL	<4" PIPE RUN	A	1.160E01	2	1	1	2	2	40.00	40	
FK963	WORK BAY-ABOVE CEIL.	<4" PIPE RUN	A	1.160E01	2	1	1	2	2	40.00	40	
FK852	MECH. ROOM	TRANSITE PANEL BOARD	A	4.200E00	1	2	1	2	5	16.00	25	
FK852	ROOM 5	TRANSITE PANEL BOARD	A	4.200E00	1	2	1	2	5	16.00	25	
FK960	WORK BAY-(THRU-OUT)	4-8" PIPE FITTING	Α	4.200E00	2	1	1	2	2	40.00	30	
FK719	MECH. ROOM	EXPANSION JOINTS	Α	0	1	2	1	2	5	16.00	0	

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability 3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9044.5 COST ESTIMATE* - BUILDING 9044, MOTOR POOL

DESCRIPTION	UNIT COST (\$)	AREA	AREA	AREA 3	AREA	AREA	AREA	AREA	AREA	ARE	AREA 10	TOTAL
Pipe Fittings (EA) 248" 9-14" >14"	70.30 85.80 147.00 216.00	:	=======================================	0.3	:	: : :	0.6	:	:	Ž.1	2.9	3:4 2:5
Pipe Runs (LF) 4-8" 9-14" >14"	26-50 30-50 60-80	:	:	0.8	:	:	0.5 - -	:	:	7.6	10.3	10.9 8.4
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	•	-	-	-
Floor Tile (SF)	5.60	-	2.5	-	2.0	-	-	2.1	1.3	-	-	7.9
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	- ·	-	-	-	-	-	_	-
Other		0.2	-	-	-	0.2	-	-	-	-	-	0.4
SUBTOTAL		0.2	2.5	1.1	2.0	0.2	1.1	2.1	1.3	9.8	13.2	33.5
Difficulty Allowance		-	-	1.1	-	-	1.6	•	•	14.7	46.3	63.7
SUBTOTAL		0.2	2.5	2.2	2.0	0.2	2.7	2.1	1.3	24.4	59.5	97.2
Decontamination Units Mobilization		8:5	8:5	8:5	8:5	8:5	8:5	8:5	8:5	8:5	8:5	4:5 2:0
SUBTOTAL		0.9	3.2	2.9	2.7	0.9	3.4	2.8	1.9	25.1	60.1	103.7
Contingency a 15.00%		0.1	0.5	0.4	0.4	0.1	0.5	0.4	0.3	3.8	9.0	15.6
SUBTOTAL	•,	1.0	3.6	3.3	3.1	1.0	3.9	3.2	2.2	28.8	69.1	119.3
Design Fee a 10.00%		0.1	0.4	0.3	0.3	0.1	0.4	0.3	0.2	2.9	6.9	11.9
SUBTOTAL		1.1	4.0	3.7	3.4	1.1	4.3	3.5	2.4	31.7	76.1	131.2
Air Monitoring a 10.00%	***	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	13.1
TOTAL		2.4	5.3	5.0	4.7	2.4	5.6	4.8	3.7	33.0	77.4	144.3





^{*}Amounts Are In Thousands Of Dollars

***Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

****The Minimum Air Monitoring Fee is \$500.00 Per Building

9044.4

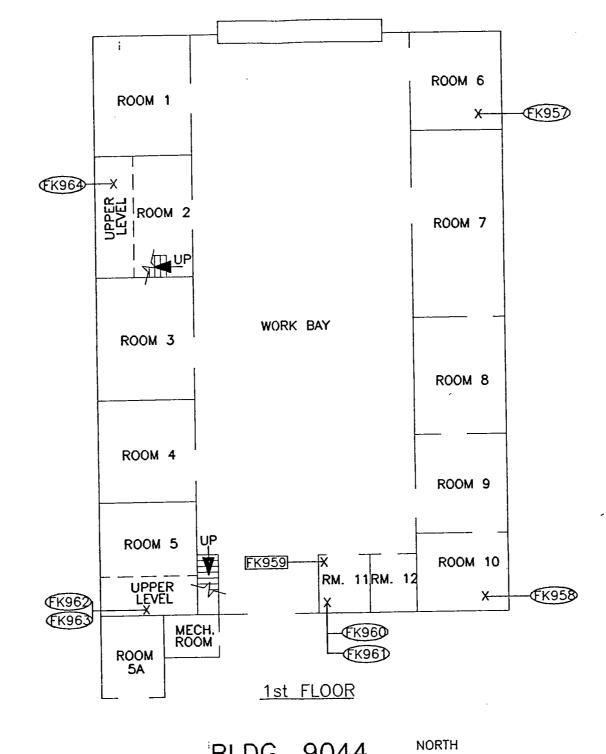
PHOTOGRAPHS



Bldg. 9044 Room 11, Men's Room: (Sample(s) FK960 and 961) 4"-8" Pipe Run and Fitting Insulation Tested Positive



Bldg. 9044 Room 5A, Upper Level: (Sample(s) FK962 and 963)<4" Pipe Run and Fitting Insulation Tested Positive



BLDG. 9044

NOT TO SCALE



9044-10

MECH. ROOM NORTH

BLDG. 9045 NOT TO SCALE





STORAGE

9046.1 GENERAL

Building 9046 was surveyed by WESTON's inspection team on 28 September 1992.

No suspect asbestos-containing material (ACM) was found in the building.

9046.2 CONCLUSION

Based on the inspection survey and other information made available to WESTON, we conclude that accessible areas of Building 9046 do not contain ACM.

ADMINISTRATION

9047.1 GENERAL

Building 9047 was surveyed by WESTON's inspection team on 22 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be asbestoscontaining material (ACM). Table 9047.1 lists the analytical result for the bulk sample.

9047.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for the bulk sample from Building 9047 are presented in Table 9047.1. An area-by-area inventory of ACM is provided in Tables 9047.2 and 9047.3. "Other Asbestos-Containing Materials," listed in Table 9047.3, are materials that do not correspond to the standard caption categories listed in Table 9047.2. A prioritized listing of exposure assessments is presented in Table 9047.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9047.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9047.2 and 9047.5.

9047.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9047 found to be ACM.
- Asbestos-containing floor tile present in Building 9047 should be labeled under the O&M Program.

TABLE 9047.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9047, ADMINISTRATION

SAMPLE		·	,	PERCE	NT ASB	ESTOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK949	1ST FLOFFICE AREA	FLOOR TILE	TAN,OTH,FLOOR TILE	2	-	-	NO
FR747	191 FE - OFFICE AREA	I LOOK TILL	17111/0111/1 20011 1122	_			

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 9047.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9047, ADMINISTRATION

AREA	P1	PE FITT 4-8"	INGS (EA) 9-14"	>14"	< 4 "	PIPE RU 4-8"	NS (LF) 9-14"	>14"	SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
1ST FLOFFICE AREA	-	-	-	-	-	-	-	-	-	1.94	-	-	-
2ND FLOFFICE AREA	-		-			 -			-	1.94			<u> </u>
TOTALS	-		-		-		•	-		3.88_			

 $^{^{}f *}$ Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9047.3

Other Asbestos-Containing Material - Building 9047, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)								
No Other Asbestos-Containing Material Found in this Building										

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9047.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9047, ADMINISTRATION

					==		
			PRIOR.	PRIORITY		AVG.	<u> </u>
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	*
NO.	AREA	TYPE	CODE	NUMBER	1 2 3 4 5	HOURS_	ASB.

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

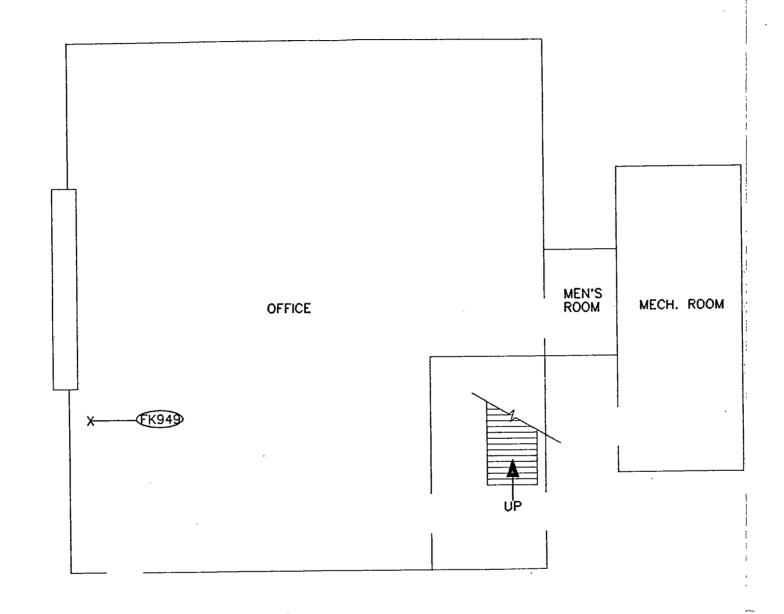
5 [=] Number Of Assigned Occupants

TABLE 9047.5 COST ESTIMATE* - BUILDING 9047, ADMINISTRATION

	UNIT	AREĄ	AREA	
DESCRIPTION	UNIT COST (\$)		2	TOTAL
Pipe Fittings (EA)	ZQ-3Q	-	-	-
}-14" >14"	70.30 85.80 147.00 216.00	-	:	:
Pipe Runs (LF)	34 E0	_	_	_
348" 3-14" >14"	26-50 30-50 60-80	:	:	-
₹14 %**	26:80	-	•	•
Sprayed/Troweled Ceilings (SF)	9.60	-	•	-
Floor Tile (SF)	5.60	10.9	10.9	21.7
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	-
SUBTOTAL		10.9	10.9	21.7
Difficulty Allowance		-	-	-
SUBTOTAL		10.9	10.9	21.7
Decontamination Units Mobilization		1:8	1:₹	3:8
SUBTOTAL		13.4	13.4	26.7
Contingency @ 15.00%		2.0	2.0	4.0
SUBTOTAL		15.4	15.4	30.7
Design Fee a 10.00%		1.5	1.5	3.1
SUBTOTAL.		16.9	16.9	33.8
Air Monitoring a 10.00%	***	<u>1.7</u>	1.7	3.4
TOTAL		18.6	18.6	37.2

^{*}Amounts Are In Thousands Of Dollars

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9047 NOT TO SCALE





SWITCHING STATION

9049.1 GENERAL

Building 9049 was surveyed by WESTON's inspection team on 11 August 1992.

The first three portions of this facility report summarize the results of this inspection. Photographs of lab tabletop, gloves, pipe run/fitting insulation, and floor tile sample locations are provided in Subsection 9049.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze nine samples of suspect material collected from the building. Of these samples, five were found to be asbestos-containing materials (ACM). Table 9049.1 lists the analytical results for the bulk samples.

9049.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9049 are presented in Table 9049.1. An area-by-area inventory of ACM is provided in Tables 9049.2 and 9049.3. "Other Asbestos-Containing Materials," listed in Table 9049.3, are materials that do not correspond to the standard caption categories listed in Table 9049.2. A prioritized listing of exposure assessments is presented in Table 9049.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9049.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9049.2 and 9049.5.

9049.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9049 are:
 - Transite panel
 - Pipe insulation
 - Lab tabletop
 - Lab gloves
 - Floor tile
 - Mud packing
- Per the Directorate of Engineering and Housing (DEH), Building 9049 is scheduled for demolition.
- The ACMs listed above will be removed under the Army Asbestos Deficiency Abatement Project (AADAP) prior to demolition of Building 9049; however, in accordance to the latest revisions of the National Emission Standard for Hazardous Air Pollutants (NESHAPs, 40 CFR Part 61, Subpart M, 20 November 1990), the floor tile can be left in place during demolition, provided it is in good condition and will not become friable during demolition.

TABLE 9049.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9049, SWITCHING STATION

SAMPLE				PERCE	NT ASB	ESTOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT_	LAYERED
FK723	LABORATORY-1ST FL.	OTHER MATERIAL	BLACK,OTH,LAB TABLE	10	-	-	NO
FK724	LABORATORY-1ST FL.	OTHER MATERIAL	WHITE, OTH, GLOVES	30	-	-	NO
FK725	LATRINE	<4" PIPE FITTING	GREEN,UNK,PIPE FITT	-	-	-	NO
FK726	LATRINE	<4" PIPE RUN	GRAY, OTH, PIPE INSUL	1	-	-	NO
FK727	2ND FL. AREA	FLOOR TILE	BLACK,OTH,FLOOR TILE	5	-	-	NO
FK728	ATTIC	OTHER MATERIAL	BROWN, OTH, INSUL MAT	-	-	-	NO
FK733	ADDITION B AREA	OTHER MATERIAL	BLACK, OTH, ROOF SHING	-	-	-	NO
FK734	MECH. ROOM 2	OTHER MATERIAL	GRAY, OTH, MUD JOINT	7	-	-	NO
FK735	MECH. ROOM 2	OTHER MATERIAL	GRAY, OTH, GYPS BOARD	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

	•
System Codes	Asbestos Types
STM = Steam	CH = Chrysotile
CHW = Chilled Water	AM = Amosite
HHW = Heating Hot Water	OT = Other
DOM = Domestic Water	
OTH = Other	
UNK = Unknown	
	STM = Steam CHW = Chilled Water HHW = Heating Hot Water DOM = Domestic Water OTH = Other

TABLE 9049.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9049, SWITCHING STATION

	PIPE FITTINGS (EA)				PIPE RUNS (LF)			SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING		
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
ND FL. AREA	-		-	-	-	-	_	-	-	0.89	-	-	-
DDITION B AREA	-	-	-	-	-	-	-	-	-	0.02	-	•	-
ABORATORY-1ST FL.	-	-	-	-	-	-	-	-	-	-	-	•	*
ATRINE	_	-	-	-	40	-	-	-	•	-	-	- .	-
ECH. ROOM 1	-	-	-	-	-	-	-	-	•	-	-	-	*
ECH. ROOM 2							 :						*
OTALS		_	_	-	40	_	-	_	-	0.91	•		*

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9049.3

Other Asbestos-Containing Material - Building 9049, Switching Station Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Laboratory - 1st Floor	Lab Tabletop	0.020 (MSF)
Laboratory - 1st Floor Room 5206	Lab Gloves	2.0 (EA)
Mechanical Room 1	Transite Panel	0.020 (MSF)
Mechanical Room 2	Mud Packing on Exhaust Flue	0.005 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9049.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9049, SWITCHING STATION

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POS	URE	FAC	TORS	AVG. Exp.	×
NO.	AREA	ТҮРЕ	CODE	NUMBER	1	2	3	4_	5	HOURS	ASB.
FK731	MECH. ROOM 1	TRANSITE PANEL BOARD	A	2,300E01	2	2	2	1	1	1.00	50
FK723	LABORATORY-1ST FL.	INSULATION BOARD	A	4.200E00	1	2	1	2	5	16.00	10
FK726	LATRINE	<4" PIPE RUN	Α	4.000E00	2	3	2	1	1	1.00	1
FK725	LATRINE	<4" PIPE FITTING	A	0	2	3	2	1	1	1.00	0
FK735	MECH. ROOM 2	INSULATION BOARD	A	0	2	2	2	1	1	1.00	0

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition

4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9049.5 COST ESTIMATE* - BUILDING 9049, SWITCHING STATION

•								
DESCRIPTION	UNIT COST (\$)	AREA	AREA	AREA	AREA 4	AREA	AREA	TOTAL
Pipe Fittings (EA)					•	_	-	_
}-8" 9-14" >14"	70.30 85.80 147.00 216.00	=	:	=	:	Ξ	:	:
	216.00	•	•	•	-	-	•	•
Pipe Runs (LF)	26-58	-	:	:	1.1	-	:	1.1
4 ⁻ 8" 9-14" >14"	26.50 30.50 42.50 60.80	-	:	:	:	=	=	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	5.0	0.1	-	-	-	-	5.1
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other		•	-	0.7	-	0.2	**	0.9
SUBTOTAL		5.0	0.1	0.7	1.1	0.2	**	7.0
Difficulty Allowance		-	-	-	-	-	-	· -
SUBTOTAL		5.0	0.1	0.7	1.1	0.2	**	7.0
Decontamination Units Mobilization		8: 8	0.8 0.3	8:8 8:3	0.8 0.3	8: 8	0:8 0:3	2:5
SUBTOTAL		6.0	1.2	1.8	2.1	1.3	1.1	13.5
Contingency a 15.00%		0.9	0.2	0.3	0.3	0.2	0.2	2.0
SUBTOTAL		6.9	1.4	2.0	2.5	1.5	1.3	15.6
Design Fee @ 10.00%		0.7	0.1	0.2	0.2	0.1	0.1	1.6
SUBTOTAL		7.6	1.5	2.2	2.7	1.6		17.1
Air Monitoring a 10.00	XXXX	0.3	<u> </u>	0.3	0.3	0.3	0.3	1.7
TOTAL		7.9	<u>1.8</u>	2.5	3.0	1.9	1.7_	18.9

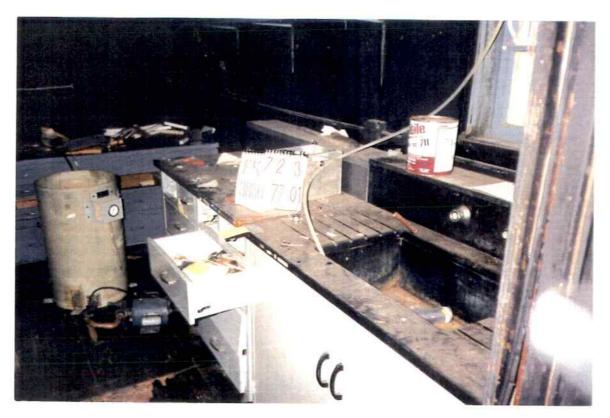
^{*}Amounts Are In Thousands Of Dollars

AREA 1: 2ND FL. AREA 3: LABORATORY-1ST FL. AREA 5: MECH. ROOM 1

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building

9049.4

PHOTOGRAPHS



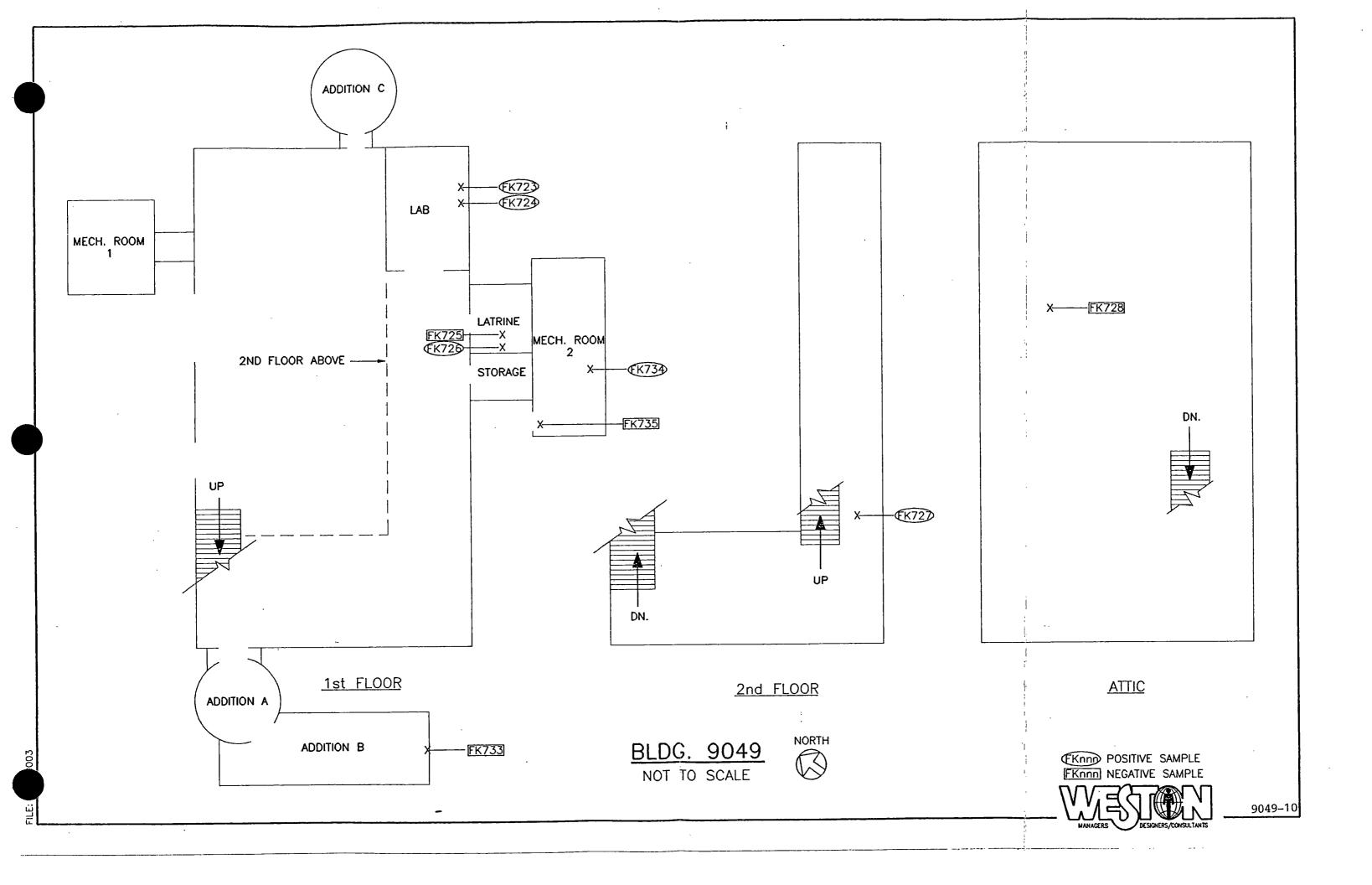
Bldg. 9049 Laboratory, 1st Floor: (Sample(s) FK723 and 724) Lab Table Top and Gloves (in the Drawer) were Tested Positive



Bldg. 9049 Latrine: (Sample FK726) <4" Pipe Run Insulation Tested



Bldg. 9049 2nd Floor Area: (Sample FK727) 9" x 9" Black Floor Tile Tested Positive



TELEPHONE EXCHANGE

9059.1 GENERAL

Building 9059 was surveyed by WESTON's inspection team on 28 September 1992.

The first three portions of this facility report summarize the results of this inspection. Photographs of pipe run and fitting insulation sample locations are provided in Subsection 9059.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. Of these samples, two were found to be asbestos-containing materials (ACM). Table 9059.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing floor tiles (9" x 9" black and brown) were found in Building 9059. This material was not sampled; instead it was referenced to similar floor tiles found in Buildings 9013 and 9088, which were tested to be ACM.

9059.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9059 are presented in Table 9059.1. An area-by-area inventory of ACM is provided in Tables 9059.2 and 9059.3. "Other Asbestos-Containing Materials," listed in Table 9059.3, are materials that do not correspond to the standard caption categories listed in Table 9059.2. A prioritized listing of exposure assessments is presented in Table 9059.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9059.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL

BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9059.2 and 9059.5.

9059.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9059 are:
 - Pipe insulation
 - Floor tile
- The following areas in Building 9059 qualify for the Army Asbestos Deficiency Abatement Project (AADAP) for pipe insulation removal:
 - Men's room
 - Women's room
 - Areas 1 and 2
- Asbestos-containing floor tile present in Building 9059 should be labeled under the O&M Program.

TABLE 9059.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9059, TELEPHONE EXCHANGE

SAMPLE				PERCE	NT ASBI	ESTOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	MA	OT	LAYERED
HF528	AREA 2	<4" PIPE FITTING	GRAY,UNK,FITT.INSUL	20	3	-	NO
HF529	LADIES' ROOM	<4" PIPE RUN	GRAY, UNK, PIPE RUN	1	-	-	YES
HF530	ATTIC	OTHER MATERIAL	GRAY,OTH,CEIL INSUL	-	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes C = Center N = North E = East S = South W = West NE = Northeast NW = Northeast	System Codes STM = Steam CHW = Chilled Water HHW = Heating Hot Water DOM = Domestic Water OTH = Other UNK = Unknown	Asbestos Types CH = Chrysotile AM = Amosite OT = Other
NW = Northwest SE = Southeast SW = Southwest		

TABLE 9059.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9059, TELEPHONE EXCHANGE

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
REA 1	3	-	_	-	40	-	-	-	-	0.60		-	-
REA 2	4	-	-	-	35		-	-	•	0.68	-	-	-
REA 3	-	-	-	-	-	-	-	-	•	0.36	-	-	-
ADIES' ROOM	-	-	-	-	15	-	-	-	•	0.04	-	-	-
EN'S ROOM	3			-	15	<u></u>		<u> </u>	-	0.04			<u>-</u>
OTALS	10	-	_		105	-	-	-	-	1.72	_	-	-

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9059.3

Other Asbestos-Containing Material - Building 9059, Telephone Exchange Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)									
No Other	No Other Asbestos-Containing Material Found in this Building										

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9059.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9059, TELEPHONE EXCHANGE

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POSL	JRE	FAC	TORS	AVG. Exp.	%	
NO.	AREA	TYPE	CODE	NUMBER	1	2	3	4	5	HOURS	ASB.	
HF528	AREA 1	<4" PIPE FITTING	В	1.380E02	2	2	1	2	1	8.00	23	
HF528	AREA 2	<4" PIPE FITTING	В	1.380E02	2	2	1	2	1	8.00	23	
HF528	MEN'S ROOM	<4" PIPE FITTING	В	1.380E02	2	2	1	2	1	8.00	23	
HF529	AREA 1	<4" PIPE RUN	A	2.400E01	2	2	1	2	1	8.00	1	
HF529	AREA 2	<4" PIPE RUN	A	2.400E01	2	2	1	2	1	8.00	1	
HF529	LADIES' ROOM	<4" PIPE RUN	A	2.400E01	2	2	1	2	1	8.00	1	
HF529	MEN'S ROOM	<4" PIPE RUN	Α	2.400E01	2	2	1	2	1	8.00	1	
HF530	ATTIC	INSULATION BOARD	A	0	2	2	1	2	1	8.00	0	

Priority Index Codes
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9059.5 COST ESTIMATE* - BUILDING 9059, TELEPHONE EXCHANGE

DESCRIPTION	UNIT COST (\$)	AREĄ	AREA	AREĄ	AREĄ	AREĄ	TOTAL		
			<u> </u>						
Pipe fittings (EA)	79:30	0.2	0.3	-	-	0.2	0.7		
3 ⁻ 8" 9-74" >14"	70.30 147.00 216.00	:	-	:	-	:	Ξ.		
Pipe Runs (LF)					٠,	0.4	2.0		
4-8"	3 6:58	1.1	0.9	-	0.4	0.4	2.8		
4 ⁻ 8" 9-14" >14"	26.50 30.50 42.50 60.80	:	:	-	=	:	-		
Sprayed/Troweled Ceilings (SF)	9.60	<u>.</u>	-	_	_	-	-		
Floor Tile (SF)	5.60	3.4	3.8	2.0	0.2	0.2	9.6		
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-		
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-		
Other	•	-	-	-	-	•	-		
SUBTOTAL		4.6	5.0	2.0	0.6	0.8	13.1		
Difficulty Allowance		1.9	-	•	0.6	0.9	3.4		
SUBTOTAL		6.5	5.0	2.0	1.2	1.7	16.5		•
Decontamination Units Mobilization		8:2	8:2	8:2	8:2	8:2	4: 8		,
SUBTOTAL		7.8	6.3	3.3	2.5	3.0	23.0		
Contingency a 15.00%		1.2	0.9	0.5	0.4	0.5	3.5		
SUBTOTAL		9.0	7.3	3.8	2.9	3.5	26.5		
Design Fee @ 10.00%		0.9	0.7	0.4	0.3	0.4	2.6		
SUBTOTAL		9.9	· 8.0	4.2	3.2	3.9	29.1		
Air Monitoring a 10.00%**	*	0.6	0.6	0.6	0.6	0.6	2.9		
TOTAL		10.5	8.6	4.8	3.8	4.4	32.1	 	

^{*}Amounts Are In Thousands Of Dollars

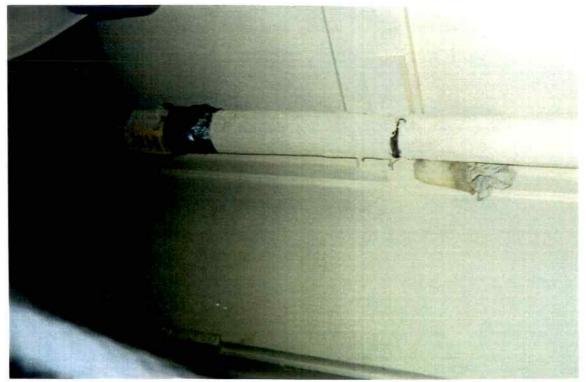
AREA 3: AREA 1 AREA 5: MEN'S ROOM

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building

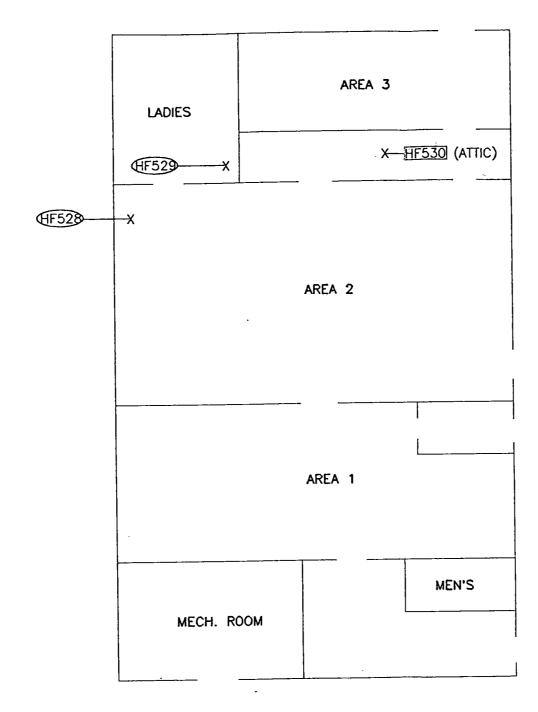
9059.4 PHOTOGRAPHS



Bldg. 9059 Area 2, Along the Ceiling: (Sample HF528) <4" Pipe Fitting Insulation Tested Positive



Bldg. 9059 Ladies Room: (Sample HF529) <4" Pipe Run Insulation Tested Positive



BLDG. 9059
NOT TO SCALE





HEAT PLANT

9064.1 GENERAL

Building 9064 was surveyed by WESTON's inspection team on 22 September 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be nonasbestoscontaining material (non-ACM).

The location, description, and analytical results for the bulk sample from Building 9064 are presented in Table 9064.1.

9064.2 CONCLUSION

Based on the survey and the laboratory results of the sample collected in Building 9064, WESTON concludes that accessible areas of Building 9064 do not contain ACM.

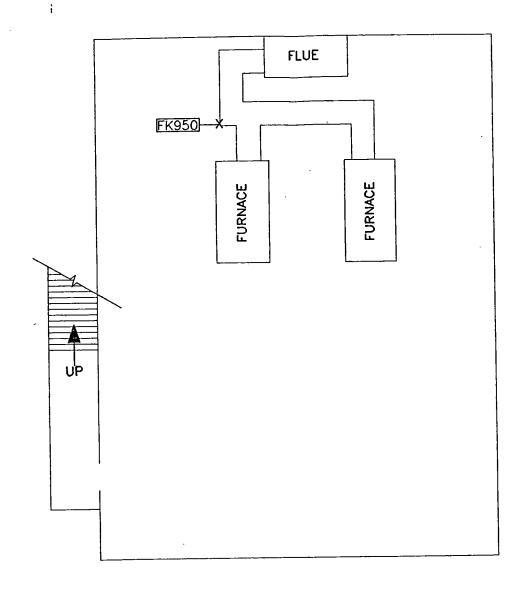
TABLE 9064.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9064, HEAT PLANT

			PERCE	NT ASB	STOS	
LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
OM	OTHER MATERIAL	WHITE, OTH, BREH INSUL	-	-	-	YES
	LOCATION			LOCATION ITEM DESCRIPTION CH	LOCATION ITEM DESCRIPTION CH AM	LOCATION ITEM DESCRIPTION CH AM OT

⁸Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		



BLDG. 9064 NOT TO SCALE

4 NORTH



SEWAGE PLANT

9080.1 GENERAL

Building 9080 was surveyed by WESTON's inspection team on 29 September 1992.

The first three portions of this facility report summarize the results of this inspection. Photographs of boiler and tank insulation sample locations are provided in Subsection 9080.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze six samples of suspect material collected from the building. Of these samples, four were found to be asbestos-containing materials (ACM). Table 9080.1 lists the analytical results for the bulk samples.

9080.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9080 are presented in Table 9080.1. An area-by-area inventory of ACM is provided in Tables 9080.2 and 9080.3. "Other Asbestos-Containing Materials," listed in Table 9080.3, are materials that do not correspond to the standard caption categories listed in Table 9080.2. A prioritized listing of exposure assessments is presented in Table 9080.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9080.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9080.2 and 9080.5.

9080.3 RECOMMENDATIONS/CONCLUSIONS

- Building 9080 is an abandoned building.
- The ACMs present in Building 9080 are:
 - Boiler insulation
 - Tank insulation
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9080.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9080, SEWAGE PLANT

SAMPLE		PERCENT ASBES								
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	ОТ	LAYERED'			
HF508	BASEMENT-MECH. ROOM	BOILERS/TANKS	GRAY,OTH,BOIL INSUL	50	-	-	YES			
HF509	BASEMENT-MECH. ROOM	DUPLICATE SAMPLE	GRAY.OTH.BOILER INS	50	-	-	YES			
HF510	BASEMENT-MECH. ROOM	BOILERS/TANKS	GRAY, OTH, TANK INSUL	50	-	-	YES			
HF511	BASEMENT-MECH. ROOM	DUPLICATE SAMPLE	GRAY,OTH,TANK INSUL	50	-	-	NO			
HF512	1ST FL ENTIRE	OTHER MATERIAL	BLACK,OTH,LINOLEUM	-	-	-	NO			
HF513	1ST FL ENTIRE	CEILING BOARD	WHITE OTH CEIL BOARD	-	-	-	YES			

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

ASBESTOS-CONTAINING MATERIALS - BUILDING 9080, SEWAGE PLANT

	1112111100 (211)						PIPE RUNS (LF) SPRAY/TROWELL					AIR HANDLING	
AREA	<4"	4-8"		>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	<u>(MSF)</u>	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
BASEMENT-MECH. ROOM							<u></u> :				0.12		
TOTALS		-			<u>-</u>	-				-	0.12	<u> </u>	-

^{*} Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9080.3

Other Asbestos-Containing Material - Building 9080, Sewage Plant Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)									
No Other Asbestos-Containing Material Found in this Building											

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9080.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9080, SEWAGE PLANT

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POSL	JRE	FAC	TORS_	AVG. EXP.	*
NO.	AREA	TYPE	CODE	NUMBER	1_	2	3	4	5	HOURS	ASB.
HF508	BASEMENT-MECH. ROOM	BOILERS/TANKS	A	3.240E00	3	1	2	1	1	8.00	50
HF510	BASEMENT-MECH. ROOM	BOILERS/TANKS	Ä	3.240E00	3	1	2	1	i	8.00	50
HF513	1ST FL ENTIRE	CEILING BOARD	A	0	3	1	2	1	1	8.00	0

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9080.5 COST ESTIMATE* - BUILDING 9080, SEWAGE PLANT

	UNIT COST (\$)	AREĄ	
DESCRIPTION	COST (\$)	1	TOTAL
Pipe Fittings (EA) 4-8" 9-8" >14"	70.30 85.80 147.00 216.00	: : :	:
Pipe Runs (LF)	26-50 30-50 42-50 60-80	<u>:</u> :	<u>.</u>
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	4.5	4.5
Air Handling Equipment (SF)	20.00	-	-
Other		-	•
SUBTOTAL		4.5	4.5
Difficulty Allowance		-	-
SUBTOTAL		4.5	4.5
Decontamination Units Mobilization		3:8	3:8
SUBTOTAL		9.5	9.5
Contingency @ 15.00%		1.4	1.4
SUBTOTAL		11.0	11.0
Design Fee @ 10.00%		1.1	1.1
SUBTOTAL		12.1	12.1
Air Monitoring a 10.00%	,*** •	<u> </u>	1.2
TOTAL		13.3	13.3

AREA 1: BASEMENT-MECH. ROOM

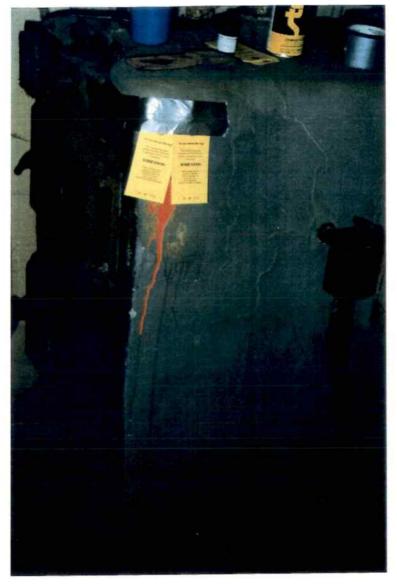
^{*}Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building

9080.4

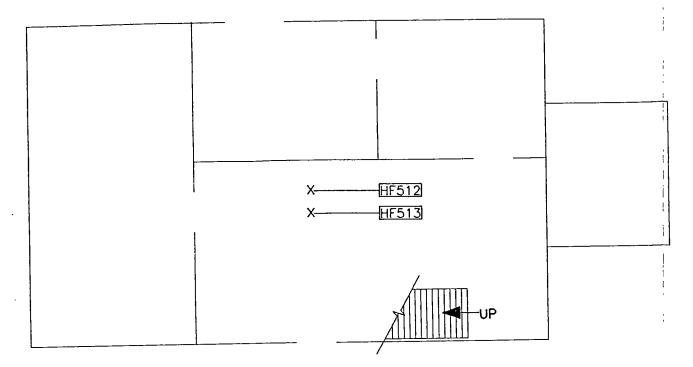
PHOTOGRAPHS



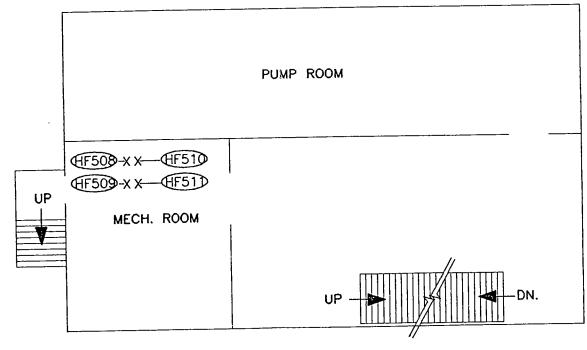
Bldg. 9080 Basement, Mech. Room: (Sample(s) HF508 and 509) Boiler Insulation Tested Positive



Bldg. 9080 Basement, Mech. Room: (Sample(s) HF510 and 511) Tank Insulation Tested Positive



1st FLOOR



BASEMENT

BLDG. 9080 NOT TO SCALE NORTH



9080-10

MAINTENANCE SHOP

9083.1 GENERAL

Building 9083 was surveyed by WESTON's inspection team on 23 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. Of these samples, all three were found to be asbestos-containing materials (ACM). Table 9083.1 lists the analytical results for the bulk samples.

9083.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9083 are presented in Table 9083.1. An area-by-area inventory of ACM is provided in Tables 9083.2 and 9083.3. "Other Asbestos-Containing Materials," listed in Table 9083.3, are materials that do not correspond to the standard caption categories listed in Table 9083.2. A prioritized listing of exposure assessments is presented in Table 9083.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9083.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9083.2 and 9083.5.

9083.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9083 are:
 - Floor tile
 - Linoleum
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9083.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9083, MAINTENANCE SHOP

SAMPLE				PERCE	NT ASB	<u>estos</u>	
NO.	LOCATION	ITEM	DESCRIPTION	СН	AM	ОТ	LAYERED'
FK970	NORTH SIDE AREA	OTHER MATERIAL	RED,OTH,LINOLEUM	1	-	-	YES
	NORTH SIDE AREA	FLOOR TILE	BROWN, OTH, 9X9 FLR TL	2	-	-	NO
	SOUTH SIDE AREA	FLOOR TILE	BLACK, OTH, FLOOR TILE	8	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

TABLE 9083.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9083, MAINTENANCE SHOP

•	P1	PIPE FITTINGS (EA)				PIPE RUNS (LF)			SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
NORTH SIDE AREA		-	-	-	-	_	-	-	-	0.40	•	•	*
SOUTH SIDE AREA		:		-			<u></u>	<u>-</u>		1.00			<u>-</u>
TOTALS	-	-	-	<u> -</u>	_	-	-	-	-	1.40	•	-	*

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9083.3

Other Asbestos-Containing Material - Building 9083, Maintenance Shop Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)		
Northside Area	Linoleum	1.000 (MSF)		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9083.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9083, MAINTENANCE SHOP

							-	
. <u>.</u> .								
		<u>-</u> -	PRIOR.	PRIORITY		AVG.		
		*******			5V000105 516500		₩	
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	ъ	
NO.	AREA	TYPE	CODE	NUMBER	1 2 3 4 5	HOURS	ASB.	
NO.	ANEA	1166	COL	HOUDER	<u> </u>	110010	7.001	

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9083.5 COST ESTIMATE* - BUILDING 9083, MAINTENANCE SHOP

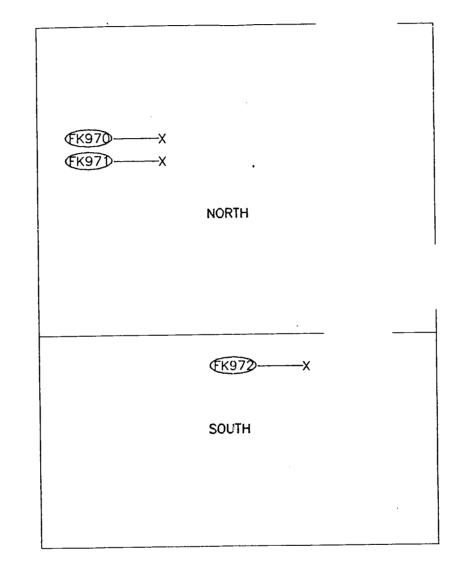
DESCRIPTION	UNIT COST (\$)	AREA	AREA	TOTAL
Pipe Fittings (EA) 4-8" 9-14" >14"	70.30 85.80 147.00 216.00	: :	:	:
Pipe Runs (LF) 44" 9-14" >14"	26.50 30.50 60.80	:	:	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-	•
Floor Tile (SF)	5.60	2.2	5.6	7.8
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00		-	-
Other		0.6	-	0.6
SUBTOTAL	•	2.8	5.6	8.4
Difficulty Allowance		-	-	-
SUBTOTAL		2.8	5.6	8.4
Decontamination Units Mobilization		1:8	1:₹	3:8
SUBTOTAL		5.3	8.1	13.4
Contingency a 15.00%		0.8	1.2	2.0
SUBTOTAL		6.1	9.3	15.4
Design Fee a 10.00%	•	0.6	0.9	1.5
SUBTOTAL	***	6.7	10.2	16.9
Air Monitoring @ 10.00%	ξ ^{πππ}	0.8	0.8	1.7
TOTAL		7.5	11.1	18.6

AREA 1: NORTH SIDE AREA

^{*}Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9083 NOT TO SCALE





ADMINISTRATION

9084.1 GENERAL

Building 9084 was surveyed by WESTON's inspection team on 28 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Assumed asbestos-containing floor tile (9" x 9") was found in the entire office area of Building 2562. This material could not be sampled; instead it was referenced to a similar floor tile found in Building 9029, which was tested to be ACM.

9084.2 ACM AND EXPOSURE ASSESSMENT

An area-by-area inventory of ACM is provided in Tables 9084.2 and 9084.3. "Other Asbestos-Containing Materials," listed in Table 9084.3, are materials that do not correspond to the standard caption categories listed in Table 9084.2. A prioritized listing of exposure assessments is presented in Table 9084.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9084.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report.

9084.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9084 found to be ACM.
- Asbestos-containing floor tile present in Building 9084 should be labeled under the O&M Program.

TABLE 9084.1 BULK SAMPLE ANALYSIS RESULTS - BUILDING 9084, ADMINISTRATION

SAMPLE				PERCENT ASBESTOS
NO.	LOCATION	ITEM	DESCRIPTION	CH AM OT LAYERED

Suspect material noted in this building was correlated with material sampled from adjacent buildings. Those materials that tested positive (i.e. that contains asbestos) are reflected in the schematic floor plans of this discussion and are included in the cost estimates (labor and material expenses) shown in the following tables.

SW = Southwest

System Codes Asbestos Types Quadrant Codes CH = Chrysotile C = Center STM = Steam CHW = Chilled Water AM = Amosite N = NorthOT = Other HKW = Heating Hot Water E = East DOM = Domestic Water S = South OTH = Other W = West NE = Northeast UNK = Unknown NW = Northwest SE = Southeast

^aAsbestos content presented for layered samples represents the highest concentration layer.

TABLE 9084.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9084, ADMINISTRATION

AREA	P	IPE FITT	INGS (EA) 9-14"	>14"		PIPE RU	INS (LF) 9-14"	>14"	SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
OFFICE AREA - ENTIRE				<u>-</u>			<u></u>		<u> </u>	1.90			
TOTALS			<u>-</u>	-	-			•		1.90	-	<u> </u>	

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet

MSF - Thousand Square Feet

Table 9084.3

Other Asbestos-Containing Material - Building 9084, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)								
No Other	No Other Asbestos-Containing Material Found in this Building									

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9084.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9084, ADMINISTRATION

							·	
			PRIOR.	PRIORITY		AVG.		
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	*	
NO.	AREA	TYPE	CODE	NUMBER	1 2 3 4 5	HOURS	ASB.	

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability 3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9084.5 COST ESTIMATE* - BUILDING 9084, ADMINISTRATION

	UNIT COST (\$)	AREĄ	70711
DESCRIPTION	COST (\$)	1	TOTAL
Pipe Fittings (EA)	ZQ-30	-	:
3-74" >14"	70.30 85.80 147.00 216.00	-	=
Pipe Runs (LF)	24 E0	_	_
}4"8" 9-14" >14"	26.50 30.50 60.80	<u> </u>	:
	26.88	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	10.6	10.6
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		10.6	10.6
Difficulty Allowance		-	-
SUBTOTAL		10.6	10.6
Decontamination Units Mobilization		3: 8	3: 8
SUBTOTAL		15.6	15.6
Contingency a 15.00%		2.3	2.3
SUBTOTAL		18.0	18.0
Design Fee @ 10.00%		1.8	1.8
SUBTOTAL		19.8	19.8
Air Monitoring a 10.00%	. 	2.0	2.0
TOTAL		21.8	21.8

^{*}Amounts Are In Thousands Of Dollars

AREA 1: OFFICE AREA - ENTIRE

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

****The Minimum Air Monitoring Fee is \$500.00 Per Building

METAL SHOP

9085.1 GENERAL

Building 9085 was surveyed by WESTON's inspection team on 23 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 9085.1 lists the analytical results for the bulk samples.

9085.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9085 are presented in Table 9085.1. An area-by-area inventory of ACM is provided in Tables 9085.2 and 9085.3. "Other Asbestos-Containing Materials," listed in Table 9085.3, are materials that do not correspond to the standard caption categories listed in Table 9085.2. A prioritized listing of exposure assessments is presented in Table 9085.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9085.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9085.2 and 9085.5.

9085.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9085 found to be ACM.
- Asbestos-containing floor tile present in Building 9085 should be labeled under the O&M Program.

TABLE 9085.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9085, METAL SHOP

SAMPLE				PERCI	<u>nt asbi</u>	<u>estos</u>	_
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OŤ	LAYERED
FK977	1ST FL ENTIRE	FLOOR TILE	BLACK,OTH,FLOOR TIL5	5	-	-	NO
FK978	1ST FL ENTIRE	ACOUSTICAL WALL TILE	WHITE, OTH, ACOUT TILE	-	-	-	YES
FK979	1ST FL ENTIRE	CEILING TILE	WHITE,OTH,ACOUT TILE	-	-	-	YES

 $^{^{\}mathrm{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	•
W = West	OTH = Other	. •
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

ASBESTOS-CONTAINING MATERIALS - BUILDING 9085, METAL SHOP

AREA	PIPE FI	TTINGS (EA	>14"	-<4 ⁱⁱ	PIPE RU	INS (LF) 9-14"	>14"	SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
1ST FL ENTIRE		<u> </u>			<u>-</u>				1.80			<u></u>
TOTALS	<u> </u>	<u> </u>		-	<u>-</u>	-			1.80	<u>.</u>	<u> </u>	

^{*} Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9085.3

Other Asbestos-Containing Material - Building 9085, Metal Shop Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)							
No Other A	No Other Asbestos-Containing Material Found in this Building								

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9085.4 BUILDING 9085, METAL SHOP EXPOSURE ASSESSMENTS (PRIORITY ORDER) -

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOS	SURE 3	FAI 4	CTORS 5	AVG. EXP. HOURS	% ASB
FK978 FK979	1ST FL ENTIRE 1ST FL ENTIRE	ACOUSTICAL WALL TILE CEILING TILE	A	0	1 1 1 1	1	2 2	2	40.00 40.00	0

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

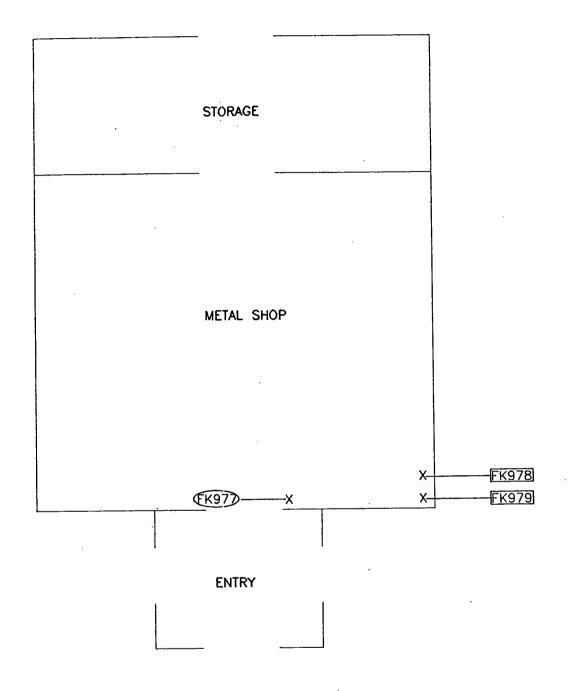
TABLE 9085.5 COST ESTIMATE* - BUILDING 9085, METAL SHOP

		4554	
DESCRIPTION	UNIT COST (\$)	AREA	TOTAL
Pipe Fittings (EA)	ZQ-30	-	=
3-8" 9-14" >14"	70.30 147.00 216.00	-	-
Pipe Runs (LF)	26.50	-	-
4 ⁻⁷ 8" 9-14" >14"	26.50 30.50 42.50 60.80	-	Ξ
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	10.1	10.1
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		10.1	10.1
Difficulty Allowance		-	-
SUBTOTAL		10.1	10.1
Decontamination Units Mobilization		3 :8	3 :8
SUBTOTAL		15.1	15.1
Contingency a 15.00%		2.3	2.3
SUBTOTAL		17.3	17.3
Design Fee @ 10.00%		1.7	1.7
SUBTOTAL		19.1	19.1
Air Monitoring a 10.00%	***	1.9	1.9
TOTAL		21.0	21.0

^{*}Amounts Are In Thousands Of Dollars

AREA 1: 1ST FL. - ENTIRE

^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
***The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9085 NOT TO SCALE



POSITIVE SAMPLE

FKNNN NEGATIVE SAMPLE

9085-8

ADMINISTRATION

9086.1 GENERAL

Building 9086 was surveyed by WESTON's inspection team on 28 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of pipe run and fitting insulation sample location is provided in Subsection 9086.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Both samples were found to be asbestoscontaining materials (ACM). Table 9086.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing floor tile (9" x 9" black) was found in Building 9086. This material was not sampled; instead it was referenced to a similar floor tile found in Building 9029, which was tested to be ACM.

9086.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9086 are presented in Table 9086.1. An area-by-area inventory of ACM is provided in Tables 9086.2 and 9086.3. "Other Asbestos-Containing Materials," listed in Table 9086.3, are materials that do not correspond to the standard caption categories listed in Table 9086.2. A prioritized listing of exposure assessments is presented in Table 9086.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9086.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL

BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9086.2 and 9086.5.

9086.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9086 are:
 - Floor tile
 - Pipe insulation
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9086.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9086, ADMINISTRATION

SAMPLE				PERCE	NT ASB	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM_	OT	LAYERED'
HF501	OFFICE AREA-ABV/CEIL	<4" PIPE FITTING	GRAY,UNK,FITT.INSUL	50	1	-	YES
HF502	OFFICE AREA-ABV/CEIL	<4" PIPE RUN	GRAY,UNK,PIPE RUN	65	-	-	NO

 $^{^{8}}$ Asbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	•
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
OFFICE AREA	-	_	-	-	-	-	-	-		0.59	-	-	
OFFICE AREA-ABV.CEIL	8	-		-	<u>70</u>		=	:		-			-
TOTALS	8		_	-	70	_	-	-	-	0.59	-	-	

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9086.3

Other Asbestos-Containing Material - Building 9086, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other A	Asbestos-Containing Material Found in	this Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9086.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9086, ADMINISTRATION

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POSI	JRE	FAC	TORS	AVG. Exp.	*	
NO.	AREA	TYPE	CODE	NUMBER	1	2	3	4	5	HOURS	ASB.	
HF501	OFFICE AREA-ABV.CEIL	<4" PIPE FITTING	A	4.640E01	2	1	1	2	8	40.00	51	
HF502	OFFICE AREA-ABV.CEIL	<4" PIPE RUN	A	4.640E01	2	1	1	2	8	40.00	65	
FK917	OFFICE AREA	CEILING BOARD	Α	0	2	1	1	2	8	40.00	0	
HF527	OFFICE AREA	CEILING TILE	A	0	2	1	1	2	8	40.00	0	

Priority Index Codes

B [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9086.5 COST ESTIMATE* - BUILDING 9086, ADMINISTRATION

		•		
DESCRIPTION	UNIT COST (\$)	AREA 1	AREA	TOTAL
Pipe Fittings (EA)	70.30 85.80 147.80 216.00	-	0.6	0.6
4-8" 9-14" >14"	147.00 216.00	:	:	-
Pipe Runs (LF)	26.50	-	1.9	1.9
4-78" 9-74" >14"	26.50 30.50 42.50 60.80	=	:	:
Sprayed/Troweled Ceilings (SF)	9.60	_	_	-
Floor Tile (SF)	5.60	3.3	-	3.3
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-		-
Other		-	-	-
SUBTOTAL		3.3	2.4	5.7
Difficulty Allowance		-	6.0	6.0
SUBTOTAL		3.3	8.5	11.7
Decontamination Units Mobilization		1:8	1:8	3:8
SUBTOTAL		5.8	11.0	16.7
Contingency a 15.00%		0.9	1.6	2.5
SUBTOTAL		6.6	12.6	19.2
Design Fee @ 10.00%		0.7	1.3	1.9
SUBTOTAL	.未存象	7.3	13.9	21.2
Air Monitoring a 10.00%	6	1.1	1.1	2.1
TOTAL	·	8.4	14.9	23.3

AREA 1: OFFICE AREA

^{*}Amounts Are In Thousands Of Dollars

***Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

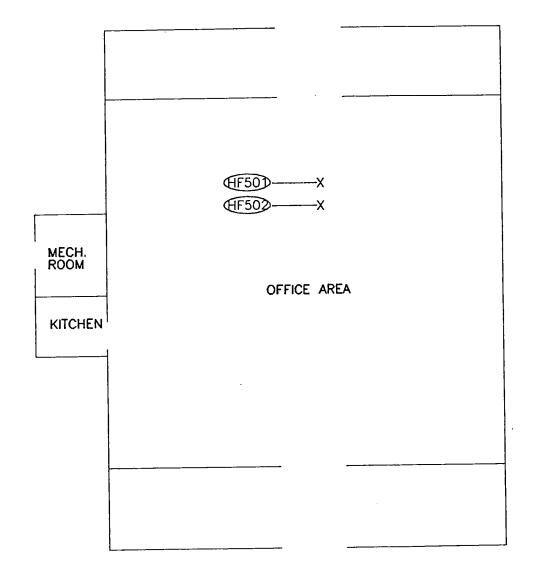
****The Minimum Air Monitoring Fee is \$500.00 Per Building

9086.4

PHOTOGRAPH



Bldg. 9086 Office Area, Above Ceiling: (Sample(s) HF501 and 502) <4" Pipe Run and Fitting Insulation Tested Positive



BLDG. 9086 NOT TO SCALE





STORAGE

9088.1 GENERAL

Building 9088 was surveyed by WESTON's inspection team on 30 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be asbestoscontaining material (ACM). Table 9088.1 lists the analytical result for the bulk sample.

Assumed asbestos-containing floor tile (12" x 12" tan) was also found in the bathroom of Building 9088. This material was not sampled; instead it was referenced to a similar floor tile found in Building 9013, which was tested to be ACM.

9088.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for the bulk sample from Building 9088 are presented in Table 9088.1. An area-by-area inventory of ACM is provided in Tables 9088.2 and 9088.3. "Other Asbestos-Containing Materials," listed in Table 9088.3, are materials that do not correspond to the standard caption categories listed in Table 9088.2. A prioritized listing of exposure assessments is presented in Table 9088.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9088.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9088.2 and 9088.5.

9088.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9088 found to be ACM.
- Asbestos-containing floor tile present in Building 9088 should be labeled under the O&M Program.

TABLE 9088.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9088, STORAGE

SAMPLE				PERCE	NT ASBE	STOS	_
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
HF515 1ST FL	OOR - ENTIRE	FLOOR TILE	BROWN, OTH, FLOOR TILE	7	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes C = Center N = North E = East S = South W = West NE = Northeast NW = Northwest SE = Southeast	System Codes STM = Steam CHW = Chilled Water HHW = Heating Hot Water DOM = Domestic Water OTH = Other UNK = Unknown	Asbestos Types CH = Chrysotile AM = Amosite OT = Other
SE = Southeast SW = Southwest	·	

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
ST FLOOR - ENTIRE	_	_	_	-	_	_	-	-	•	3.20	-	-	-
ATHROOM		=		-				-		0.05			
TOTALS	_	_	-	-	_	-	_	-	•	3.25	-	-	-

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9088.3

Other Asbestos-Containing Material - Building 9088, Storage Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other	Asbestos-Containing Material Found in t	his Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9088.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) -

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	<u>EX</u>	POSI	URE 3	FAC	TORS 5	AVG. EXP. HOURS	% ASB.	
FK982	1ST FLOOR - ENTIRE	ACOUSTICAL WALL TILE	A	0	1	1	1	2	2	40.00	0	

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

BUILDING 9088, STORAGE

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9088.5

COST ESTIMATE* - BUILDING 9088, STORAGE

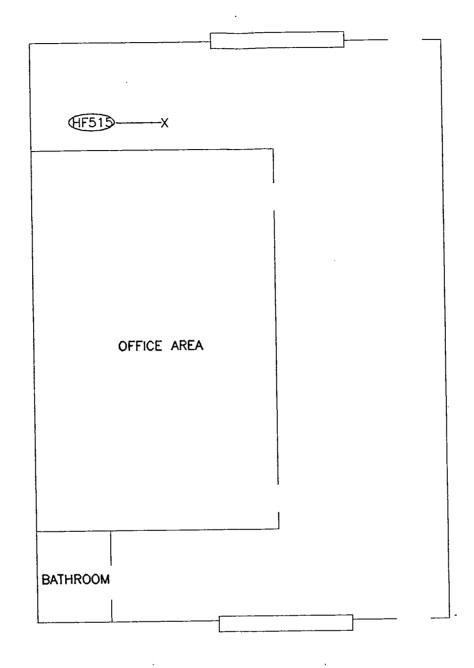
DESCRIPTION_	UNIT COST (\$)	AREĄ	AREA	TOTAL
Pipe Fittings (EA)		-		•
4 8" 9-14" >14"	70.30 85.80 147.00 216.00	=	=	=
Pipe Runs (LF)		_	-	-
}-8" }-14" >14"	26-50 30-50 42-50 60-80	:	:	-
	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-,
Floor Tile (SF)	5.60	17.9	0.3	18.2
Boilers/Tanks (SF)	37.90	-	-	•
Air Handling Equipment (SF)	20.00	•	-	-
Other		-	-	-
SUBTOTAL		17.9	0.3	18.2
Difficulty Allowance		-	-	•
SUBTOTAL		17.9	0.3	18.2
Decontamination Units Mobilization		1:5	1:₹	3:8
SUBTOTAL		20.4	2.8	23.2
Contingency a 15.00%		3.1	0.4	3.5
SUBTOTAL		23.5	3.2	26.7
Design Fee @ 10.00%		2.3	0.3	2.7
SUBTOTAL		25.8	3.5	29.3
Air Monitoring @ 10.00%	***	<u> </u>	<u>1.5</u>	2.9
TOTAL		27.3	5.0	32.3

^{*}Amounts Are In Thousands Of Dollars

AREA 1: 1ST FLOOR - ENTIRE

^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

^{***} The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9088 NOT TO SCALE NORTH



ADMINISTRATION

9089.1 GENERAL

Building 9089 was surveyed by WESTON's inspection team on 23 September 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of pipe run and fitting insulation sample location is provided in Subsection 9089.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze four samples of suspect material collected from the building. Of these samples, all four were found to be asbestos-containing materials (ACM). Table 9089.1 lists the analytical results for the bulk samples.

9089.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9089 are presented in Table 9089.1. An area-by-area inventory of ACM is provided in Tables 9089.2 and 9089.3. "Other Asbestos-Containing Materials," listed in Table 9089.3, are materials that do not correspond to the standard caption categories listed in Table 9089.2. A prioritized listing of exposure assessments is presented in Table 9089.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9089.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9089.2 and 9089.5.

9089.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9089 are:
 - Floor tile
 - Pipe insulation
 - Transite panel
- The following areas in Building 9089 qualify for the Army Asbestos Deficiency Abatement Program (AADAP):
 - Break room
 - Classrooms 1 and 2
 - Conference Room 2
 - Mechanical Room 1
 - Office 2
 - Storage 1
 - Men's room
- Asbestos-containing floor tile present in Building 9089 should be labeled under the O&M Program.

TABLE 9089.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9089, ADIMINISTRATION

SAMPLE				PERCI	ENT ASBI	<u>ESTOS</u>	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	ОТ	LAYERED
FK965	MECHANICAL ROOM 1	FLOOR TILE	BLACK,OTH,FLOOR TILE	5	-	-	NO
FK966	HALLWAY-MEN'S ROOM	TRANSITE PANEL BOARD	GRAY, OTH, TRANS PNL	25	-	-	YES
FK967	MEN'S ROOM	<4" PIPE FITTING	GRAY, UNK, FITT. INSUL	20	3	-	YES
FK968	MEN'S ROOM	<4" PIPE RUN	GRAY,UNK,PIPE RUN	2	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		

TABLE 9089.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9089, ADMINISTRATION

	PI	PE FITT	NGS (EA)	-		PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-8"	9-14"	>1411	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
REAK ROOM	-	-	-	-	-	-	-	-	-	•	-	•	*
LASSROOM 1	· •	-	-	-	-		-	-	-	-	-	-	*
LASSROOM 2	-	-	-	-	-	-	-	-	-	-	-	-	*
CONFERENCE ROOM 2	-	-	-	-	-	-	-	-	-	-	-	-	-
ALLWAY-MEN'S ROOM	-	-	-	-	-	-	-	-	-	•	-	•	
ECHANICAL ROOM 1		-	-	-	-	-	-	-	-	0.25	-	-	*
EN'S ROOM	5	-	-	-	20	-	-	-	-	-	-	-	-
FFICE 2	-	-	-	-	-	-	-	-	-	-	-	-	*
EMAINING 1ST FLOOR	-	-	-	-	-	-	-	-	-	3.75	-	•	-
OUTH WALL	_	-	-	-	110	-	-	-	•	-	-	-	-
STORAGE 1				<u> </u>	:			-		-	<u> </u>		*
OTALS	5	_	-	-	130	-	-	_	-	4.00	-	·	*

^{*} Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 9089.3

Other Asbestos-Containing Material - Building 9089, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)		
Break Room	Transite Panel	0.100 (MSF)		
Classroom 1	Transite Panel	0.050 (MSF)		
Classroom 2	Transite Panel	0.100 (MSF)		
Conference Room 2	Transite Panel	0.100 (MSF)		
Hallway - Men's room	Transite Panel	0.200 (MSF)		
Mechanical Room 1	Transite Panel	0.100 (MSF)		
Office 2	Transite Panel	0.100 (MSF)		
Storage 1	Transite Panel	0.100 (MSF)		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9089.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9089, ADMINISTRATION

SAMPLE No.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	<u>EX</u>	POSI 2	URE 3	FAC	TORS 5	AVG. EXP. HOURS	% ASB.	
				7 000-07			_	_		20.00	25	
FK966	BREAK ROOM	TRANSITE PANEL BOARD	Ç	3.800E03	_	2	_	_	4	20.00	25	
FK966	CLASSROOM 1	TRANSITE PANEL BOARD	C	3.800E03	2	. 2	2	2	4	20.00	25	
FK966	CLASSROOM 2	TRANSITE PANEL BOARD	C	3.800E03	2	2	2	2	4	20.00	25	
FK966	CONFERENCE ROOM 2	TRANSITE PANEL BOARD	С	3.800E03	2	2	2	2	4	20.00	25	
FK966	MECHANICAL ROOM 1	TRANSITE PANEL BOARD	Č	3.800E03	2	2	2	2	4	20.00	25	
FK966	OFFICE 2	TRANSITE PANEL BOARD	Ċ	3.800E03	2	2	2	2	4	20.00	25	
FK966	STORAGE 1	TRANSITE PANEL BOARD	Ċ	3.800E03	2	2	2	2	4	20.00	25	
FK967	MEN'S ROOM	<4" PIPE FITTING	Č	3.800E03	Ž	2	2	2	4	20.00	23	
FK968	MEN'S ROOM	<4" PIPE RUN	B	6.600E02	2	2	2	2	4	20.00	2	
FK968	SOUTH WALL	<4" PIPE RUN	В	6.600E02	2	2	2	2	4	20.00	2	
FK966	HALLWAY-MEN'S ROOM	TRANSITE PANEL BOARD	Α	1.300E-2	1	1	1	2	2	40.00	25	

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability
3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9089.5 COST ESTIMATE* - BUILDING 9089, ADMINISTRATION

DESCRIPTION	UNIT COST (\$)	AREA	AREA	AREĄ	AREA	AREA	AREA	AREA	AREA	ARE	AREÀ	AREA 11
Pipe Fittings (EA)								0.4	-	-	_	-
2 8" 9- 14" >14"	70-30 85-80 147-00 216-00	=	:	:	=	:	:	:	- -	:	:	=
Pipe Runs (LF)				_	_	_	_	0.5	_	_	2.9	-
4-8" 4-8"	26.50 30.50 42.50 60.80	-	:	:	:	:	-	-	-	:		=
4 ² 8" 9-14" >14"	\$6:38	:	:	:	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	(-	-	-	-
Floor Tile (SF)	5.60	-	-		-	-	1.4	•	-	21.0	-	-
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	•	-	-	-	-	•	-	•
Other		1.1	0.6	1.1	1.1	2.2	0.8	-	1.1	-	-	1.1
SUBTOTAL		1.1	0.6	1.1	1.1	2.2	2.2	0.9	1.1	21.0	2.9	1.1
Difficulty Allowance		-	-	-	-	-	-	1.3	-	-	4.4	-
SUBTOTAL		1.1	0.6	1.1	1.1	2.2	2.2	2.2	1.1	21.0	7.3	1.1
Decontamination Units Mobilization		8:4	8:4	8:4	8:4	8:2	8:4	8:4	8:4	8:4	8:4	8:2
SUBTOTAL		1.7	1.1	1.7	1.7	2.8	2.8	2.8	1.7	21.6	7.9	1.7
Contingency a 15.00%		0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.3	3.2	1.2	0.3
SUBTOTAL		1.9	1.3	1.9	1.9	3.2	3.2	3.2	1.9	24.8	9.1	1.9
Design Fee a 10.00%		0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.2	2.5	0.9	0.2
SUBTOTAL		2.1	1.4	2.1	2.1	3.5	3.5	3.5	2.1	27.3	10.0	2.1
Air Monitoring a 10.00%	***	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL		2.7	2.0	2.7	2.7	4.1	4.0	4.1	2.7	<u> 27.9</u>	10.5	2.7

^{*}Amounts Are In Thousands Of Dollars





^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
***The Minimum Air Monitoring Fee is \$500.00 Per Building

TABLE 9089.5 (continued) COST ESTIMATE* - BUILDING 9089, ADMINISTRATION

	111177	
DESCRIPTION	UNIT COST (\$)	TOTAL
Pipe Fittings (EA) 4-8" 9-14" >14"	70.30 85.80 127.00 216.00	0.4 -
Pipe Runs (LF) 44" 9-14" >14"	26 - 50 30 - 50 60 - 80	3.4
Sprayed/Troweled Ceilings (SF)	9.60	-
Floor Tile (SF)	5.60	22.4
Boilers/Tanks (SF)	37.90	-
Air Handling Equipment (SF)	20.00	-
Other		9.0
SUBTOTAL		35.2
Difficulty Allowance		5.7
SUBTOTAL		40.9
Decontamination Units Mobilization		4: 5
SUBTOTAL		47.4
Contingency a 15.00%		7.1
SUBTOTAL		54.5
Design Fee & 10.00%		5.5
SUBTOTAL		60.0
Air Monitoring a 10.00%*	##	6.0
TOTAL		66.0

^{*}Amounts Are In Thousands Of Dollars

**Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

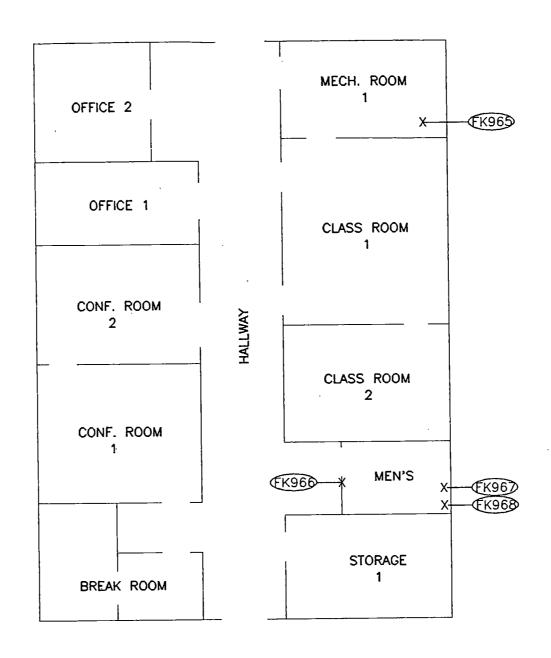
***The Minimum Air Monitoring Fee is \$500.00 Per Building

9089.4

PHOTOGRAPH



Bldg. 9089 Men's Room: (Sample(s) FK967 and 968) <4" Pipe Run and Fitting Insulation



BLDG. 9089 NOT TO SCALE





LABORATORY

9092.1 GENERAL

Building 9092 was surveyed by WESTON's inspection team on 30 September 1992.

No suspect asbestos-containing material (ACM) was found in the building.

9092.2 CONCLUSION

Based on the inspection survey and other information made available to WESTON, we conclude that accessible areas of Building 9092 do not contain ACM.

TABLE 9092.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9092, LABORATORY

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS CH AM OT LAYERED ^B

No Asbestos Containing Material Detected In This Building

SW = Southwest

Asbestos Types System Codes Quadrant Codes CH = Chrysotile STM = Steam C = Center AM = Amosite N = NorthCHW = Chilled Water OT = OtherHHW = Heating Hot Water E = East DOM = Domestic Water S = South W = West OTH = Other UNK = Unknown NE = Northeast NW = Northwest SE = Southeast

^aAsbestos content presented for layered samples represents the highest concentration layer.

STORAGE

9094.1 GENERAL

Building 9094 was surveyed by WESTON's inspection team on 23 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze two samples of suspect material collected from the building. Both samples were found to be asbestoscontaining materials (ACM). Table 9094.1 lists the analytical results for the bulk samples.

9094.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9094 are presented in Table 9094.1. An area-by-area inventory of ACM is provided in Tables 9094.2 and 9094.3. "Other Asbestos-Containing Materials," listed in Table 9094.3, are materials that do not correspond to the standard caption categories listed in Table 9094.2. A prioritized listing of exposure assessments is presented in Table 9094.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9094.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9094.2 and 9094.5.

9094.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9094 are:
 - Linoleum
 - Transite panel
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9094.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9094, STORAGE

SAMPLE				PERCE	NT ASBE	<u>estos</u>	
NO.	LOCATION	ITEM	DESCRIPTION	СН	AM	OT	LAYERED
FK973	1ST FLOOR- ENTIRE	OTHER MATERIAL	RED,OTH,LINOLEUM	1	-	-	YES
FK974	EXTERIOR SKIRT(WALL)	TRANSITE PANEL BOARD	GRAY, OTH, TRANS PNL	40	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		•

	PI	PE FITT	INGS (EA)	·		PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	> <u>14ⁱⁱ</u>	<411	4-8"	9-14"_	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
1ST FLOOR- ENTIRE	_	_	-	-	-		_	-	-	-	-	-	*
EXTERIOR SKIRT(WALL)		-		-									*
TOTALS	-	-	_	-	_	-	-	-	-	-		.	*

 $^{^{}f *}$ Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9094.3

Other Asbestos-Containing Material - Building 9094, Storage Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
1st Floor - Entire	Linoleum	1.100 (MSF)
Exterior Skirt (Wall)	Transite Panel	0.150 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9094.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) -BUILDING 9094, STORAGE

SAMPLE NO.	AREA	MATERIAL Type	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXP	osui 2	RE	FAC	TORS 5	AVG. EXP. HOURS	% ASB.	
FK974	EXTERIOR SKIRT(WALL)	TRANSITE PANEL BOARD	В	3.800E02	2	2	1	2	1	8.00	40	

Priority Index Codes
A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

- 1 [=] Material Friability
 2 [=] Occupant Accessability
 3 [=] Material Condition

- 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9094.5 COST ESTIMATE* - BUILDING 9094, STORAGE

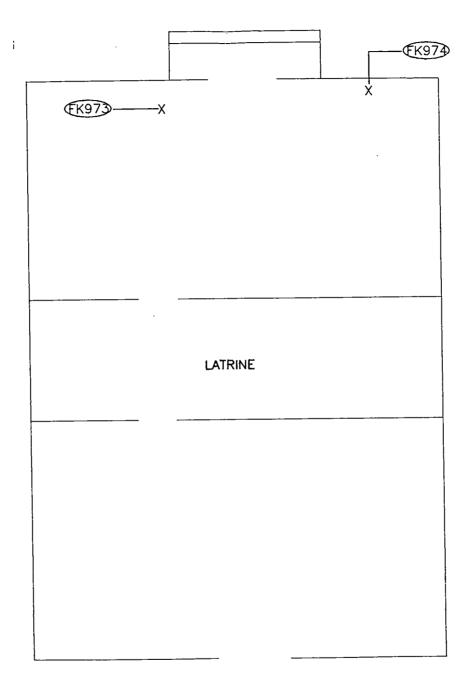
·				
DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA) 4-8" 9-74" >14"	70-30 85-80 147-80 216-00	:	:	i
Pipe Runs (LF) 4-8" 9-14" >14"	26.50 30.50 60.80	- - -	:	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		0.6	1.7	2.3
SUBTOTAL		0.6	1.7	2.3
Difficulty Allowance		•	-	-
SUBTOTAL		0.6	1.7	2.3
Decontamination Units Mobilization		1:8	1:8	3 :8
SUBTOTAL		3.1	4.2	7.3
Contingency a 15.00%		0.5	0.6	1.1
SUBTOTAL		3.6	4.8	8.3
Design Fee a 10.00%		0.4	0.5	0.8
SUBTOTAL		3.9	5.2	9.2
Air Monitoring a 10.00%	***	0.5	0.5	0.9
TOTAL		4.4	5.7	10.1

^{*}Amounts Are In Thousands Of Dollars

AREA 1: 1ST FLOOR- ENTIRE

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

****The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9094 NOT TO SCALE





HEAT PLANT

9100.1 GENERAL

Building 9100 was surveyed by WESTON's inspection team on 23 September 1992.

No suspect asbestos-containing material (ACM) was found in the building.

9100.2 CONCLUSION

Based on the inspection survey and other information made available to WESTON, we conclude that accessible areas of Building 9100 do not contain ACM.

STORAGE

9102.1 GENERAL

Building 9102 was surveyed by WESTON's inspection team on 30 September 1992.

No suspect asbestos-containing material (ACM) was found in the building.

9102.2 CONCLUSION

Based on the inspection survey and other information made available to WESTON, we conclude that accessible areas of Building 9102 do not contain ACM.

STORAGE

9105.1 GENERAL

Building 9105 was surveyed by WESTON's inspection team on 30 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Assumed asbestos-containing floor tile (9" x 9" black) was found in the Building 9105 floor-space area. This material was not sampled; instead it was referenced to a similar floor tile found in Building 9044, which was tested to be ACM.

9105.2 ACM AND EXPOSURE ASSESSMENT

An area-by-area inventory of ACM is provided in Tables 9105.2 and 9105.3. "Other Asbestos-Containing Materials," listed in Table 9105.3, are materials that do not correspond to the standard caption categories listed in Table 9105.2. A prioritized listing of exposure assessments is presented in Table 9105.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9105.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report.

9105.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9105 found to be ACM.
- Asbestos-containing floor tile present in Building 9105 should be labeled under the O&M Program.

TABLE 9105.1 BULK SAMPLE ANALYSIS RESULTS - BUILDING 9105, STORAGE

SAMPLE				PERCENT AS	BESTOS
NO.	LOCATION	ITEM	DESCRIPTION	CH AM	OT LAYERED
1101					

Suspect material noted in this building was correlated with material sampled from adjacent buildings. Those materials that tested positive (i.e. that contains asbestos) are reflected in the schematic floor plans of this discussion and are included in the cost estimates (labor and material expenses) shown in the following tables.

SW = Southwest

System Codes Asbestos Types Quadrant Codes CH = Chrysotile C = Center STM = Steam AM = Amosite CHW = Chilled Water N = North OT = Other HHW = Heating Hot Water E = East DOM = Domestic Water S = SouthW = West OTH = Other UNK = Unknown NE = Northeast NW = Northwest SE = Southeast

^aAsbestos content presented for layered samples represents the highest concentration layer.

TABLE 9105.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9105, STORAGE

AREA	P)	PE FITT	INGS (EA) 9-14"	>14"	<411	PIPE RU 4-8"	INS (LF) 9-14"	>14!	SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
1ST FLOOR- ENTIRE										1.12			
TOTALS	<u>. </u>							<u>.</u>	-	1.12	<u> </u>		

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9105.3

Other Asbestos-Containing Material - Building 9105, Storage Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)						
No Other Asbestos-Containing Material Found in this Building								

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9105.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9105, STORAGE

		PRIOR.	PRIORITY		AVG.	
SAMPLE	MATERIAL	INDEX	INDEX	EXPOSURE FACTORS_	EXP.	*
NO. A	REA TYPE	CODE	NUMBER_	1 2 3 4 5	HOURS	ASB.

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9105.5

COST ESTIMATE* - BUILDING 9105, STORAGE

	UNIT	AREĄ	
DESCRIPTION	UNIT COST (\$)	<u> </u>	TOTAL
Pipe Fittings (EA)	ZQ-30	:	:
3 ⁻ -8" 9-14" >14"	70.30 85.80 147.00 216.00	•	•
Pipe Runs (LF)		-	•
≩-8" 9-14" >14"	26.50 30.50 42.50 60.80	:	- ,
	60.80	• .	-
Sprayed/Troweled Ceilings (SF)	9.60	•	•
Floor Tile (SF)	5.60	6.3	6.3
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		6.3	6.3
Difficulty Allowance		-	-
SUBTOTAL.		6.3	6.3
Decontamination Units Mobilization		3:8 2:8	3:8
SUBTOTAL		11.3	11.3
Contingency a 15.00%		1.7	1.7
SUBTOTAL		13.0	13.0
Design Fee @ 10.00%		1.3	1.3
SUBTOTAL		14.3	14.3
Air Monitoring @ 10.00%	, www	1.4	1.4
TOTAL		15.7	<u> 15.7</u>

^{*}Amounts Are In Thousands Of Dollars

AREA 1: 1ST FLOOR- ENTIRE

^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

^{***} The Minimum Air Monitoring Fee is \$500.00 Per Building

STORAGE

9116.1 GENERAL

Building 9116 was surveyed by WESTON's inspection team on 1 October 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of duct-opening insulation sample location are provided in Subsection 9116.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze three samples of suspect material collected from the building. Of these samples, two were found to be asbestos-containing materials (ACM). Table 9116.1 lists the analytical results for the bulk samples.

9116.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9116 are presented in Table 9116.1. An area-by-area inventory of ACM is provided in Tables 9116.2 and 9116.3. "Other Asbestos-Containing Materials," listed in Table 9116.3, are materials that do not correspond to the standard caption categories listed in Table 9116.2. A prioritized listing of exposure assessments is presented in Table 9116.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9116.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9116.2 and 9116.5.

9116.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9116 are:
 - Floor tile
 - Ceiling (exhaust flue) insulation
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9116.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9116, STORAGE

SAMPLE				PERCI	ENT ASBE	STOS	•
NO.	LOCATION	ITEM	DESCRIPTION	СН	AM	OT	LAYERED
HF525	MECHANICAL ROOM	OTHER MATERIAL	GRAY,OTH,EXH INSUL	35	-	_	NO
	1ST FLOOR- ENTIRE	FLOOR TILE	BROWN, OTH, FLOOR TILE	7	-	-	NO
HF527	ROOM 1	CEILING TILE	WHITE, OTH, CEIL TILE	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

	PI	PE FITT	INGS (EA)		PIPE RUNS (LF)				SPRAY/TROWELED		BOILERS/	AIR HANDLING	
<u>AREA</u>	<411	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
IST FLOOR- ENTIRE	•	-	-	-	-	-		-	•	2.20	-	-	-
ECHANICAL ROOM		-		-									*
TOTALS	_	-	-	-	-	-	_	-	•	2.20	<u>-</u>	-	*

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9116.3

Other Asbestos-Containing Material - Building 9116, Storage Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Mechanical Room	Ceiling (Exhaust Flue) Insulation	0.040 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9116.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9116, STORAGE

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POSL	JRE	FAC	TORS	AVG. Exp.	%
NO.	AREA	TYPE	CODE	NUMBER	1	2	3	4	5	HOURS	ASB.
		THOU ATTOM BOARD		3.000E00	2	2	1	1	1	1.00	35
HF525	MECHANICAL ROOM	INSULATION BOARD CEILING TILE	A A	3.000200	2	1	i	i	· i	10.00	0
HF527	ROOM 1	CEILING TILE	Â	ň	2.	i	i	i	i	10.00	ŏ
HF527 HF527	ROOM 2 ROOM 3	CEILING TILE	Â	ő	2	i	i	i	i	10.00	ŏ

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition

4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9116.5 COST ESTIMATE* - BUILDING 9116, STORAGE

,	INIT	AREĄ	AREA	
DESCRIPTION	UNIT COST (\$)		2	TOTAL
Pipe Fittings (EA) 4-8" 9-14" >14"	70.30 85.80 127.00 216.00	- - -	- - -	:
Pipe Runs (LF) <4" 9-14" >14"	26.50 30.50 42.50 60.80	:	:	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	12.3	-	12.3
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	1,7	1.7
SUBTOTAL		12.3	1.7	14.0
Difficulty Allowance		-	0.8	0.8
SUBTOTAL		12.3	2.5	14.8
Decontamination Units Mobilization		1:8	1:5	₹:8
SUBTOTAL		14.8	5.0	19.8
Contingency a 15.00%		2.2	0.8	3.0
SUBTOTAL		17.0	5.8	22.8
Design Fee @ 10.00%		1.7	0.6	2.3
SUBTOTAL		18.7	6.4	25.1
Air Monitoring a 10.00%	X***	1.3	1.3	2.5
TOTAL		20.0	7.6	27.6

^{*}Amounts Are In Thousands Of Dollars

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building

ADMINISTRATION

9162.1 GENERAL

Building 9162 was surveyed by WESTON's inspection team on 28 September 1992.

The first three portions of this facility report summarize the results of this inspection. Photographs of duct insulation and expansion cloth sample locations are provided in Subsection 9162.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze four samples of suspect material collected from the building. Of these samples, all four were found to be asbestos-containing materials (ACM). Table 9162.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing transite panels were found in Building 9162 (office area). This material was not sampled; instead it was referenced to a similar transite panel found in Building 9089, which was tested to be ACM.

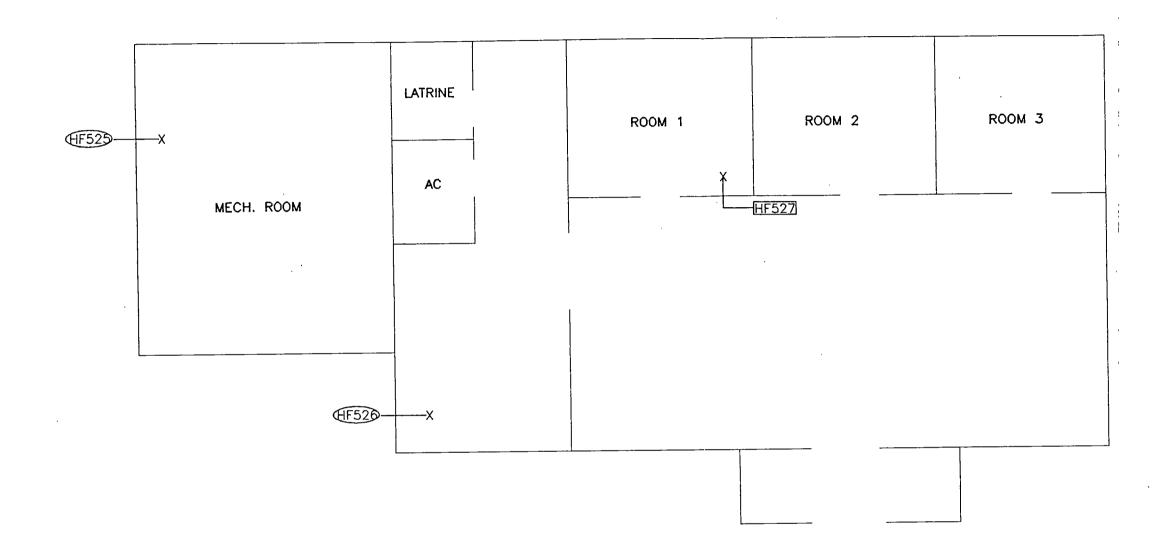
9162.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9162 are presented in Table 9162.1. An area-by-area inventory of ACM is provided in Tables 9162.2 and 9162.3. "Other Asbestos-Containing Materials," listed in Table 9162.3, are materials that do not correspond to the standard caption categories listed in Table 9162.2. A prioritized listing of exposure assessments is presented in Table 9162.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9162.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL

9116.4 PHOTOGRAPH



Bldg. 9116 Mech. Room, Ceiling Opening: (Sample HF525) Duct Opening Insulation Tested Positive



BLDG. 9116

NOT TO SCALE





STORAGE

9120.1 GENERAL

Building 9120 was surveyed by WESTON's inspection team on 11 August 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be nonasbestoscontaining material (non-ACM).

The location, description, and analytical results for the bulk sample from Building 9120 are presented in Table 9120.1.

9120.2 CONCLUSION

Based on the survey and the laboratory results of the sample collected in Building 9120, WESTON concludes that accessible areas of Building 9120 do not contain ACM.

TABLE 9120.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9120, STORAGE

SAMPLE				PERCE	NT ASBE	STOS	•
NO.	LOCATION	ITEM	DESCRIPTION	CH	MA	ОТ	LAYERED
FK732 R	800F	OTHER MATERIAL	BLACK,OTH,ROOF SHING	-	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SF = Southeast		

<u>FK732</u> (ROOF)

BLDG. 9120 NOT TO SCALE



FKnnn POSITIVE SAMPLE
FKnnn NEGATIVE SAMPLE

9120-3

BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9162.2 and 9162.5.

9162.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9162 are:
 - Transite insulation
 - Floor tile
 - Duct insulation
 - Boiler insulation
 - Expansion cloth
- The following areas in Building 9162 qualify for the Army Asbestos Deficiency Abatement Project (AADAP):
 - Women's room
 - Men's room
 - Offices 1 through 5
 - Open office area
 - Secretary area
 - Mechanical room
- Asbestos-containing floor tile present in Building 9162 should be labeled under the O&M Program.

TABLE 9162.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9162, ADMINISTRATION

SAMPLE				PERCE	NT ASBE	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	СН	AM	OT	LAYERED'
HF503	OFFICE AREA- ENTIRE	FLOOR TILE	GRAY,OTH,FLOOR TILE	7	-	-	NO
HF504	MECHANICAL ROOM	AIR HANDLING EQUIPMENT	WHITE,OTH,DUCT INSUL	3	1	-	YES
HF505	MECHANICAL ROOM	EXPANSION JOINT(S)	WHITE,OTH,EXP CLOTH	40	-	-	NO
HF506	MECHANICAL ROOM	BOILERS/TANKS	GREEN, OTH, BOIL INSUL	55	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
CII - Cauthuant		

TABLE 9162.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9162, ADMINISTRATION

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-811	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
ADIES' BATHROOM	-	_	-	-	-	_	-	_	-	-	-	-	*
ECHANICAL ROOM	-	-	-	-	-	-	-	-	-	-	0.01	0.08	*
IEN'S BATHROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
FFICE 1	-	-	-	-	-	-	-	-	-	-	-	•	*
FFICE 2	-	-	-	-	-	-	-	-	-	-	-	-	*
FFICE 3	_	-	-	-	-	-	-	-	•	-	-	-	*
FFICE 4	-	-	-	-	-	-	-	-	-	-	-	-	*
FFICE 5	-	-	-	-	-	-	-	-	-	-	-	-	*
FFICE AREA- ENTIRE	-	-	-	-	-	-	-	-	-	2.35	-	-	-
PEN OFFICE AREA	-	-	-	-	-	-	-	-	-	-	-	-	*
ECRETARY AREA		<u> </u>		-	=	:			<u> </u>			-	
OTALS	-	_	_	_	_	_	_	-	-	2.35	0.01	0.08	*

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9162.3

Other Asbestos-Containing Material - Building 9162, Administration
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Women's Room	Transite Panel	0.095 (MSF)
Mechanical Room	Expansion Cloth	3.0 (EA)
Men's Room	Transite Panel	0.095 (MSF)
Office 1	Transite Panel	0.085 (MSF)
Office 2	Transite Panel	0.095 (MSF)
Office 3	Transite Panel	0.065 (MSF)
Office 4	Transite Panel	0.065 (MSF)
Office 5	Transite Panel	0.040 (MSF)
Open Office Area	Transite Panel	0.060 (MSF)
Secretary Area	Transite Panel	0.065 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9162.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9162, ADMINISTRATION

SAMPLE	•	MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EXI	ost	IRE	FAC	TORS	AVG. Exp.	*	
NO.	AREA	TYPE	CODE	NUMBER	1	2	3	4	5	HOURS	ASB.	
FK966	LADIES' BATHROOM	TRANSITE PANEL BOARD	С	8.280E03	2	2	1	2	12	40.00	25	
FK966	MEN'S BATHROOM	TRANSITE PANEL BOARD	Ċ	8.280E03	2	2	1	2	12	40.00	25	
FK966	OFFICE 1	TRANSITE PANEL BOARD	С	8.280E03	2	2	1	2	12	40.00	25	
FK966	OFFICE 2	TRANSITE PANEL BOARD	С	8.280E03	2	2	1	2	12	40.00	25	
FK966	OFFICE 3	TRANSITE PANEL BOARD	С	8.280E03	2	2	1	2	12	40.00	25	
FK966	OFFICE 4	TRANSITE PANEL BOARD	С	8.280E03	2	2	1	2	12	40.00	25	
FK966	OFFICE 5	TRANSITE PANEL BOARD	C	8.280E03	2	2	1	2	12	40.00	25	
FK966	OPEN OFFICE AREA	TRANSITE PANEL BOARD	С	8.280E03	2	2	1	2	12	40.00	25	
FK966	SECRETARY AREA	TRANSITE PANEL BOARD	С	8.280E03	2	2	1	2	12	40.00	25	
HF505	MECHANICAL ROOM	EXPANSION JOINTS	С	2.200E03	3	2	1	2	1	8.00	40	
HF506	MECHANICAL ROOM	BOILERS/TANKS	C	2.200E03	3	2	1	2	1	8.00	55	
HF504	MECHANICAL ROOM	AIR HANDLING EQUIPMENT	В	1.380E02	3	2	1	2	1	8.00	4	
FK814	OFFICE 4	CEILING BOARD	Α	0	2	2	1	2	12	40.00	0	
FK979	OFFICE 1	CEILING TILE	Α	0	2	2	1	2	12	40.00	0	
FK979	OFFICE 2	CEILING TILE	A	0	2	2	1	2	12	40.00	0	,
FK979	OFFICE 3	CEILING TILE	A	0	2	2	1	2	12	40.00	0	
FK979	OFFICE 4	CEILING TILE	A	0	2	2	1	2	12	40.00	0	
FK979	OFFICE 5	CEILING TILE	Α	0	2	2	1	2	12	40.00	0	

<u>Priority Index Codes</u>
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

- Exposure Factors
 1 [=] Material Friability
 2 [=] Occupant Accessability
 3 [=] Material Condition

- 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9162.5 COST ESTIMATE* - BUILDING 9162, ADMINISTRATION

DESCRIPTION	UNIT COST (\$)	AREA	AREA 2	AREA	AREA 4	AREA	AREA	AREA	AREA	ARE	AREA 10	AREA
Pipe Fittings (EA)	70.30	•			<u>-</u>	•	<u>:</u>	•	:	=	:	:
4-8" 9-14" >14"	70.30 85.80 147.00 216.00	:	, <u> </u>	=	:	Ξ	=	=	:	:	Ξ	:
Pipe Runs (LF)	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8" 9-14" >14"	26.50 30.50 42.50 60.80	=	-	=	:	:	:	=	=	:	:	=
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	- /	•	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	•	-	· -	-	-	•	•	13.2	-	-
Boilers/Tanks (SF)	37.90	-	0.2	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	1.6	•	-	-		-	-	-	-	-
Other		1.0	0.9	1.0	0.9	1.0	0.7	0.7	0.4	-	0.7	0.7
SUBTOTAL		1.0	2.7	1.0	0.9	1.0	0.7	0.7	0.4	13.2	0.7	0.7
Difficulty Allowance		-	-	•	-	-	-	-	-	•	-	-
SUBTOTAL		1.0	2.7	1.0	0.9	1.0	0.7	0.7	0.4	13.2	0.7	0.7
Decontamination Units Mobilization		8:5	8:5	8:5	8:5	8:5	8:≨	8:5	8:5	8:5	8:5	8:2
SUBTOTAL		1.8	3.4	1.8	1.7	1.8	1.4	1.4	1.2	13.9	1.4	1.4
Contingency a 15.00%		0.3	0.5	0.3	0.2	0.3	0.2	0.2	0.2	2.1	0.2	0.2
SUBTOTAL		2.0	3.9	2.0	1.9	2.0	1.7	1.7	1.3	16.0	1.6	1.7
Design Fee a 10.00%		0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.1	1.6	0.2	0.2
SUBTOTAL		2.2	4.3	2.2	2.1	2.2	1.8	1.8	1.5	17.6	1.8	1.8
Air Monitoring a 10.00%	***	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
TOTAL		2.6	4.7_	2.6	2.5	2.6	2.2	2.2	1.8	17.9	2.1	2.2

^{*}Amounts Are In Thousands Of Dollars





^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building

TABLE 9162.5 (continued) COST ESTIMATE* - BUILDING 9162, ADMINISTRATION

DESCRIPTION	UNIT COST (\$)	TOTAL
Pipe Fittings (EA)		IOTAL
4-8"	70.30 85.80 147.00 216.00	-
4-8" 9-14" >14"	246:88	Ξ
Pipe Runs (LF)	26.50	_
3 ⁻ -8" 9-14" >14"	26.50 30.50 60.80	:
	60.80	-
Sprayed/Troweled Ceilings (SF)	9.60	-
Floor Tile (SF)	5.60	13.2
Boilers/Tanks (SF)	37.90	0.2
Air Handling Equipment (SF)	20.00	1.6
Other	20.00	8.2
SUBTOTAL		23.2
Difficulty Allowance		-
SUBTOTAL		23.2
Decontamination Units Mobilization		2:8
SUBTOTAL		31.2
Contingency a 15.00%		4.7
SUBTOTAL		35.8
Design Fee @ 10.00%	4	3.6
SUBTOTAL		39.4
Air Monitoring a 10.00%	***	<u>3.9</u>
TOTAL		43.4

^{*}Amounts Are In Thousands Of Dollars

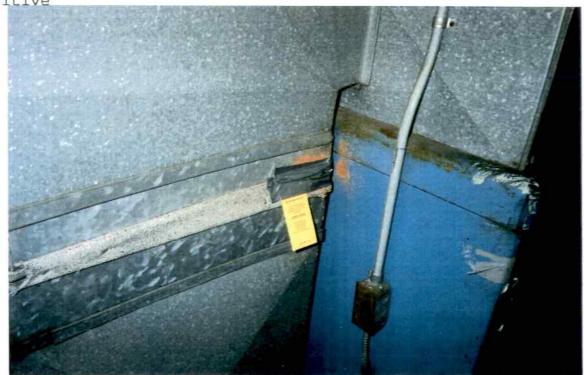
^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

***The Minimum Air Monitoring Fee is \$500.00 Per Building

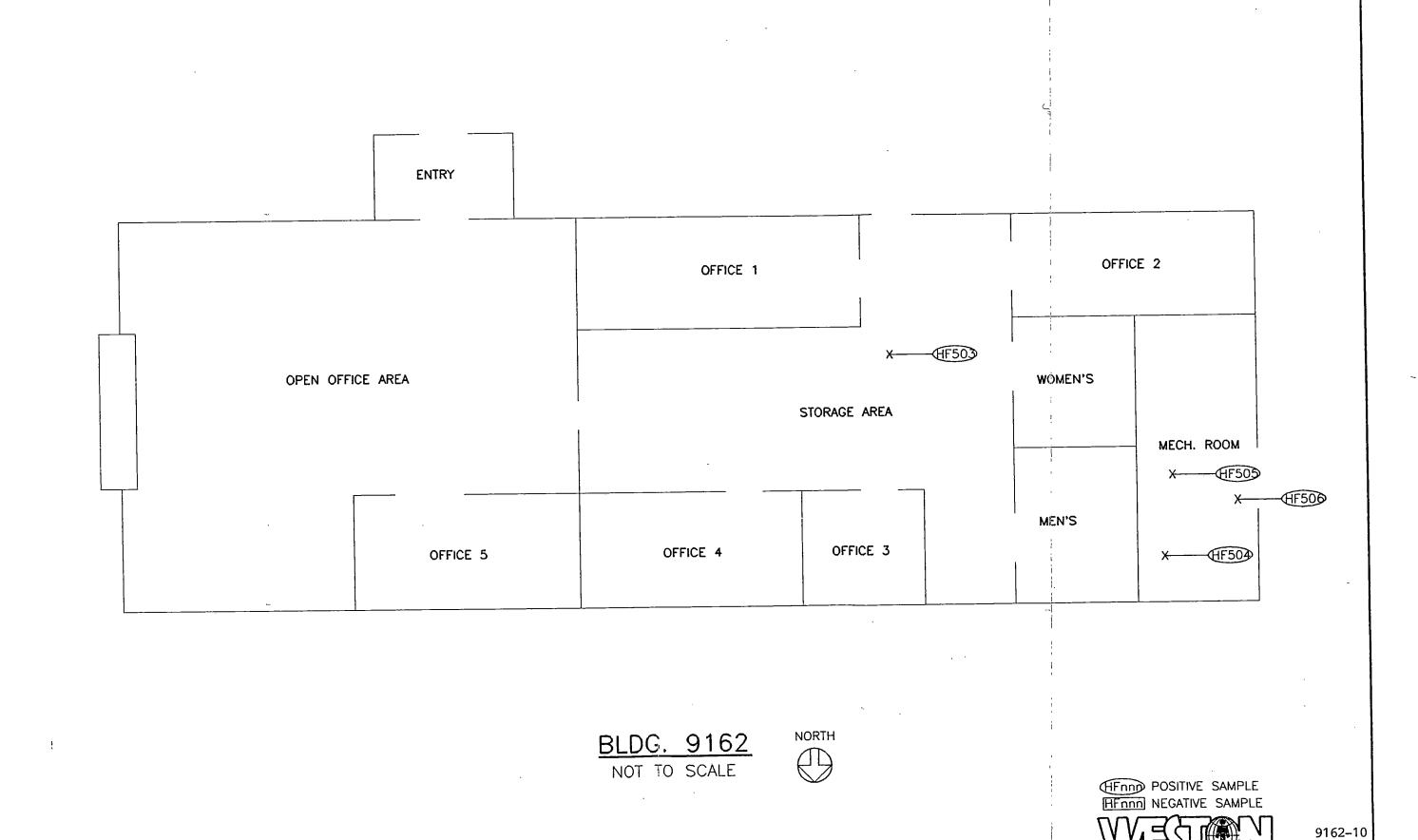
9162.4 PHOTOGRAPHS



Bldg. 9162 Mech. Room: (Sample HF504) Duct Insulation Tested Positive



Bldg. 9162 Mech. Room: (Sample HF505) Expansion Cloth Tested Positive



STORAGE

9312.1 GENERAL

Building 9312 was surveyed by WESTON's inspection team on 11 August 1992.

The first three portions of this facility report summarize the results of this inspection. A photograph of asbestos pipe, transite panel, and asbestos cloth sample location is provided in Subsection 9312.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Both of these samples were found to be asbestos-containing materials (ACM). Table 9312.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing cloth was also found in Building 9162. This material was not sampled; instead it was referenced to a similar asbestos cloth material found in Building 9049, which was tested to be ACM.

9312.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9312 are presented in Table 9312.1. An area-by-area inventory of ACM is provided in Tables 9312.2 and 9312.3. "Other Asbestos-Containing Materials," listed in Table 9312.3, are materials that do not correspond to the standard caption categories listed in Table 9312.2. A prioritized listing of exposure assessments is presented in Table 9312.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9312.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL

BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9312.2 and 9312.5.

9312.3 RECOMMENDATIONS/CONCLUSIONS

- Per the Directorate of Engineering and Housing (DEH), Building 9313 is scheduled for demolition.
- The ACMs present in Building 9312 are:
 - Asbestos pipe
 - Asbestos cloth
 - Transite panel
 - Debris
- The ACMs listed above will be removed from the building under the Army Asbestos Deficiency Abatement Project (AADAP) prior to the demolition of the building.

TABLE 9312.1 BULK SAMPLE ANALYSIS RESULTS - BUILDING 9312, STORAGE

SAMPLE				PERCE	NT ASBE	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
FK730	STORAGE AREA	OTHER MATERIAL	WHITE,OTH,PIPE	20	-	7	NO
	STORAGE AREA	TRANSITE PANEL BOARD	GRAY, OTH, TRANS PANL	50	-	-	NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

SW = Southwest

luac	irant Codes	System Codes	Asbestos Types
; =	Center	STM = Steam	CH = Chrysotile
=	: North	CHW = Chilled Water	AM = Amosite
	: East	HHW = Heating Hot Water	OT = Other
; =	South	DOM = Domestic Water	
<i>!</i> =	: West	OTH = Other	
E =	Northeast	UNK = Unknown	•
IW =	= Northwest		
E =	Southeast		

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-8"	9-14"	>14"	<411	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
ORAGE AREA		:						<u> </u>				<u> </u>	*
ALS	_	_	_	_	_	_	_	-	-	-	-	-	*

Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet MSF - Thousand Square Feet

Table 9312.3

-Containing Material - Ruilding 9312, Stora

Other Asbestos-Containing Material - Building 9312, Storage Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Storage Area	(Asbestos) Pipe	20.0 (LF)
Storage Area	Transite Panel	0.010 (MSF)
Storage Area	(Asbestos) Cloth	0.005 (MSF)
Storage Area	Debris	0.005 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9312.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9312, STORAGE

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POS	URE	E FAC	CTORS	AVG. EXP.	*
NO.	AREA	TYPE	CODE	NUMBER	1	2	3	4	5	HOURS	ASB.
FK731	STORAGE AREA	TRANSITE PANEL BOARD	С	2.280E04	2	2	1	2	12	40.00	50
FK730	STORAGE AREA	GASKET	C	8.280E03	2	2	1	2	12	40.00	27

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9312.5 COST ESTIMATE* - BUILDING 9312, STORAGE

	UNIT COST (\$)	AREĄ	
DESCRIPTION	COST (\$)	1	TOTAL
Pipe Fittings (EA)	79.30	-	-
Pipe Fittings (EA) 4-8" 9-14" >-14"	70.30 85.80 147.00 216.00	:	=
Pipe Runs (LF)	36:5 8	:	-
4 ⁻ 8" 9-14" >14"	26.50 42.50 60.80	-	:
Sprayed/Troweled Ceilings (SF)	9.60		_
Floor Tile (SF)	5.60	_	_
Boilers/Tanks (SF)	37 . 90	-	-
Air Handling Equipment (SF)	20.00	<u>-</u>	-
Other		2.1	2.1
SUBTOTAL		2.1	2.1
Difficulty Allowance		<u>-</u>	-
SUBTOTAL		2.1	2.1
Decontamination Units Mobilization		2:5	2:8
SUBTOTAL		5.6	5.6
Contingency a 15.00%		0.8	0.8
SUBTOTAL		6.5	6.5
Design Fee a 10.00%		0.6	0.6
SUBTOTAL		7.1	7.1
Air Monitoring a 10.00%	***	0.7	0.7
TOTAL		7.8	7.8

^{*}Amounts Are In Thousands Of Dollars

AREA 1: STORAGE AREA

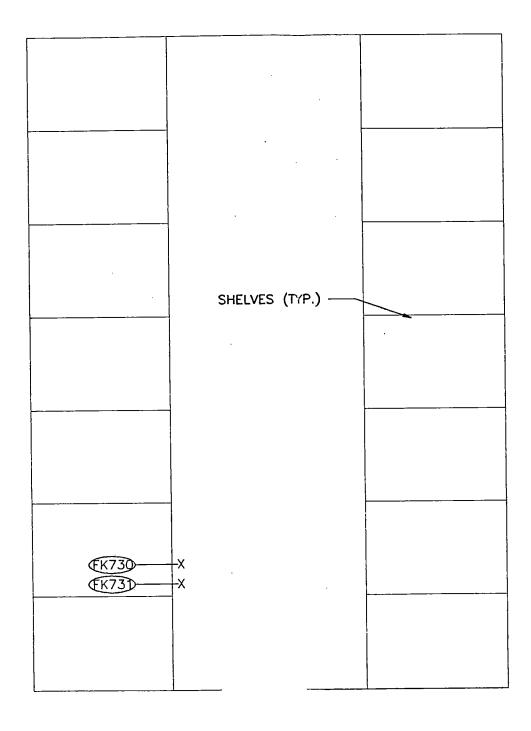
^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building

9312.4

PHOTOGRAPH



Bldg. 9312 Storage Area: (Sample(s) FK730 and 731) Asbestos Pipe and Transite Panel Tested Positive. Asbestos Cloth was also Found in this Area.



BLDG. 9312 NOT TO SCALE





STORAGE

9334.1 GENERAL

Building 9334 was surveyed by WESTON's inspection team on 29 September 1992.

No suspect asbestos-containing material (ACM) was found in the building.

9334.2 CONCLUSION

Based on the inspection survey and other information made available to WESTON, we conclude that accessible areas of Building 9334 do not contain ACM.

STORAGE

9342.1 GENERAL

Building 9342 was surveyed by WESTON's inspection team on 29 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be asbestoscontaining material (ACM). Table 9342.1 lists the analytical result for the bulk sample.

9342.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for the bulk sample from Building 9342 are presented in Table 9342.1. An area-by-area inventory of ACM is provided in Tables 9342.2 and 9342.3. "Other Asbestos-Containing Materials," listed in Table 9342.3, are materials that do not correspond to the standard caption categories listed in Table 9342.2. A prioritized listing of exposure assessments is presented in Table 9342.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9342.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9342.2 and 9342.5.

9342.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9342 found to be ACM.
- Asbestos-containing floor tile present in Building 9342 should be labeled under the O&M Program.

TABLE 9342.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9342, STORAGE

SAMPLE		· · · · · · · · · · · · · · · · · · ·		PERCE	NT ASB	STOS	
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
HF507 S	TORAGE AREA	FLOOR TILE	BLACK,OTH,FLOOR TILE	5	-		NO

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest	•	
SE = Southeast		
SW = Southwest		

	PI	PE FITT	NGS (EA)			PIPE RU				FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<411	4-8"	9-14"	>14"		4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
STORAGE AREA	. .						-	<u></u>		0.29		<u> </u>	
TOTALS	_	-	-		-	-	-	-	-	0.29	-	-	-

 $^{^{\}star}$ Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9342.3

Other Asbestos-Containing Material - Building 9342, Storage Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other A	Asbestos-Containing Material Found in the	his Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet -

TABLE 9342.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9342, STORAGE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXP	OSUI 2	RE F/	ACTORS	AVG. EXP. HOURS	% ASB.	
FK979	STORAGE AREA	CEILING TILE	A	0	2	2	1 1	1	5.00	0	_

Priority Index Codes
A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability

2 [=] Occupant Accessability 3 [=] Material Condition

4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9342.5

COST ESTIMATE* - BUILDING 9342, STORAGE

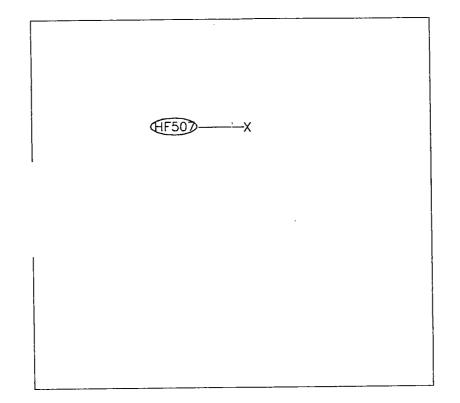
	IINTT	AREĄ	
DESCRIPTION	UNIT COST (\$)	<u> </u>	TOTAL
Pipe Fittings (EA)	70.30	-	-
4-8" 9-14" >14"	70.30 85.80 147.00 216.00	=	:
Pipe Runs (LF) 4-8"	26.50 30.50	:	:
4 ⁻ 8" 9-14" >14"	26-50 30-50 40-80	-	:
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	1.6	1.6
Boilers/Tanks (SF)	37.90	•	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		1.6	1.6
Difficulty Allowance		-	'-
SUBTOTAL		1.6	1.6
Decontamination Units Mobilization		3:0 2:0	3:8
SUBTOTAL		6.6	6.6
Contingency a 15.00%		1.0	1.0
SUBTOTAL		7.6	7.6
Design Fee @ 10.00%		0.8	0.8
SUBTOTAL		8.4	8.4
Air Monitoring a 10.00%	# # R	0_8	0.8
TOTAL		9.2	9.2

^{*}Amounts Are In Thousands Of Dollars

AREA 1: STORAGE AREA

^{**}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

^{***}The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9342 NOT TO SCALE



POSITIVE SAMPLE

HENNI NEGATIVE SAMPLE

9342-8

HYDROGEN SHED

9344.1 GENERAL

Building 9344 was surveyed by WESTON's inspection team on 11 August 1992.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be nonasbestoscontaining materials (non-ACM).

The location, description, and analytical results for the bulk sample from Building 9344 are presented in Table 9344.1.

9344.2 CONCLUSION

Based on the survey and the laboratory results of the sample collected in Building 9344, WESTON concludes that accessible areas of Building 9344 do not contain ACM.

TABLE 9344.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9344, HYDROGEN SHED

		· · · · · · · · · · · · · · · · · · ·	PERCE	NT_ASBE	STOS	_
LOCATION	ITEM	DESCRIPTION	СН	AM	ОТ	LAYERED
F	OTHER MATERIAL	BLACK,OTH,ROOF SHEET	-	-	-	NO
	 	··· · · · · · · · · · · · · · · · · ·		LOCATION ITEM DESCRIPTION CH	LOCATION ITEM DESCRIPTION CH AM	

 $^{^{\}mathbf{a}}$ Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	•
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SV = Southwest	•	

-<u>FK729</u> (ROOF) NORTH BLDG. 9344 NOT TO SCALE





METAL SHOP

9345.1 GENERAL

Building 9345 was surveyed by WESTON's inspection team on 24 September 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be asbestoscontaining material (ACM). Table 9345.1 lists the analytical result for the bulk samples.

9345.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9345 are presented in Table 9345.1. An area-by-area inventory of ACM is provided in Tables 9345.2 and 9345.3. "Other Asbestos-Containing Materials," listed in Table 9345.3, are materials that do not correspond to the standard caption categories listed in Table 9345.2. A prioritized listing of exposure assessments is presented in Table 9345.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9345.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9345.2 and 9345.5.

9345.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9345 found to be ACM.
- Asbestos-containing floor tile present in Building 9345 should be labeled under the O&M Program.

TABLE 9345.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9345, METAL SHOP

SAMPLE				PERCE	NT ASBI	ESTOS	_
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED
				_			
FK989	FLOOR AREA- ENTIRE	FLOOR TILE	BLACK, OTH, FLOOR TILE	3	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
CII - Couthwest		

ASBESTOS-CONTAINING MATERIALS | BUILDING 9345, METAL SHOP

	. P.	PE FITT	INGS (EA)			PIPE RUI	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	,
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
FLOOR AREA- ENTIRE	<u></u> :								<u> </u>	0.83		<u> </u>	
TOTALS	<u> </u>	-		<u>-</u>		-		-		0.83_	<u> </u>	<u> </u>	

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9345.3

Other Asbestos-Containing Material - Building 9345, Metal Shop Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other	Asbestos-Containing Material Found in th	is Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9345.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9345, METAL SHOP

			PRIOR.	PRIORITY	•	AVG.		
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	*	
NO.	AREA	TYPE	CODE	NUMBER	1 2 3 4 5	HOURS	ASB.	

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

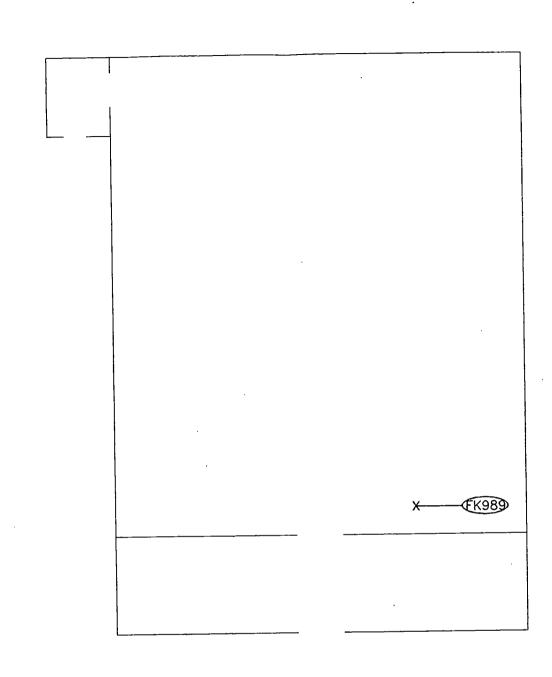
TABLE 9345.5 COST ESTIMATE* - BUILDING 9345, METAL SHOP

DESCRIPTION	UNIT COST (\$)	AREA	TOTAL
Pipe fittings (EA)			
}-8" 9-14" >14"	70.30 85.80 147.80 216.00	-	= '
Pipe Runs (LF)			
4-8" 9-14" >14"	26-50 30-50 42-50 60-80	-	=
×144"	86:88	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	_
Floor Tile (SF)	5.60	4.6	4.6
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	•	-
Other		-	-
SUBTOTAL		4.6	4.6
Difficulty Allowance		-	-
SUBTOTAL		4.6	4.6
Decontamination Units Mobilization		3 :8	3 :8
SUBTOTAL		9.6	9.6
Contingency @ 15.00%		1.4	1.4
SUBTOTAL	•	11.1	11.1
Design Fee @ 10.00%		1.1	1.1
SUBTOTAL	***	12.2	12.2
Air Monitoring a 10.00%		1.2	1.2
TOTAL		13.4	13.4

^{*}Amounts Are In Thousands Of Dollars

AREA 1: FLOOR AREA- ENTIRE

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building



BLDG. 9345 NOT TO SCALE





STORAGE

9350.1 GENERAL

Building 9350 was surveyed by WESTON's inspection team on 30 September 1992.

No suspect asbestos-containing material (ACM) was found in the building.

9350.2 CONCLUSION

Based on the inspection survey and other information made available to WESTON, we conclude that accessible areas of Building 9350 do not contain ACM.

LABORATORY

9359.1 GENERAL

Building 9359 was surveyed by WESTON's inspection team on 11 August 1992.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze four samples of suspect material collected from the building. Of these samples, two were found to be asbestos-containing materials (ACM). Table 9359.1 lists the analytical results for the bulk samples.

Assumed asbestos-containing transite panel was found in the generator room (electrical panel) of Building 9359. This material was not sampled; instead it was referenced to a similar transite panel found in Building 9312, which was tested to be ACM.

9359.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9359 are presented in Table 9359.1. An area-by-area inventory of ACM is provided in Tables 9359.2 and 9359.3. "Other Asbestos-Containing Materials," listed in Table 9359.3, are materials that do not correspond to the standard caption categories listed in Table 9359.2. A prioritized listing of exposure assessments is presented in Table 9359.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9359.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9359.2 and 9359.5.

9359.3 RECOMMENDATIONS/CONCLUSIONS

- The ACMs present in Building 9359 are:
 - Boiler (interior) insulation
 - Transite panel Asbestos cloth
- The ACMs listed above should be labeled under the O&M Program.

TABLE 9359.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9359, LABORATORY

SAMPLE				PERC			
NO.	LOCATION	ITEM	DESCRIPTION	CH	AM	OT	LAYERED'
FK736	MECHANICAL ROOM	BOILERS/TANKS	GRAY, OTH, BOIL INSUL	5	2	-	NO
FK737	GENERATOR ROOM	OTHER MATERIAL	GRAY,OTH,CLOTH INSU	65	-	-	NO
FK738	MAIN AREA	OTHER MATERIAL	GRAY, OTH, GYP BOARD	•	-	-	YES
FK739	ROOM 1	CEILING TILE	WHITE, OTH, ACOUS. TILE	-	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes	System Codes	Asbestos Types
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	•
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

TABLE 9359.2 ASBESTOS-CONTAINING MATERIALS - BUILDING 9359, LABORATORY

	PI	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>1411	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHE
ENERATOR ROOM		-	-	-	-	_	-	-	-	-	-	-	*
CHANICAL ROOM		-	<u> </u>	<u> </u>				-		-	0.05		<u>-</u>
OTALS	-	_	_	_	-	-	-	-	-	-	0.05	-	*

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9359.3

Other Asbestos-Containing Material - Building 9359, Laboratory Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Generator Room	(Asbestos) Cloth	0.005 (MSF)
Generator Room	Transite Panel	0.010 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9359.4 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9359, LABORATORY

SAMPLE		MATERIAL	PRIOR. INDEX	PRIORITY INDEX	EX	POS	JRE	FAC	TORS	AVG. EXP.	*	
NO.	AREA	TYPE	CODE	NUMBER	1_	2	3	4		HOURS	ASB.	
FK731	GENERATOR ROOM	TRANSITE PANEL BOARD	В	1.325E02	3	3	1	1	1	1.00	50	
FK736	MECHANICAL ROOM	BOILERS/TANKS	Ā	2.500E-2	3	1	2	1	1	1.00	7	
FK738	MAIN AREA	INSULATION BOARD	A	0	3	3	1	1	1	1.00	0	
FK739	ROOM 1	CEILING TILE	Á	0	3	3	1	1	1	1.00	0	

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors
1 [=] Material Friability
2 [=] Occupant Accessability
3 [=] Material Condition

4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

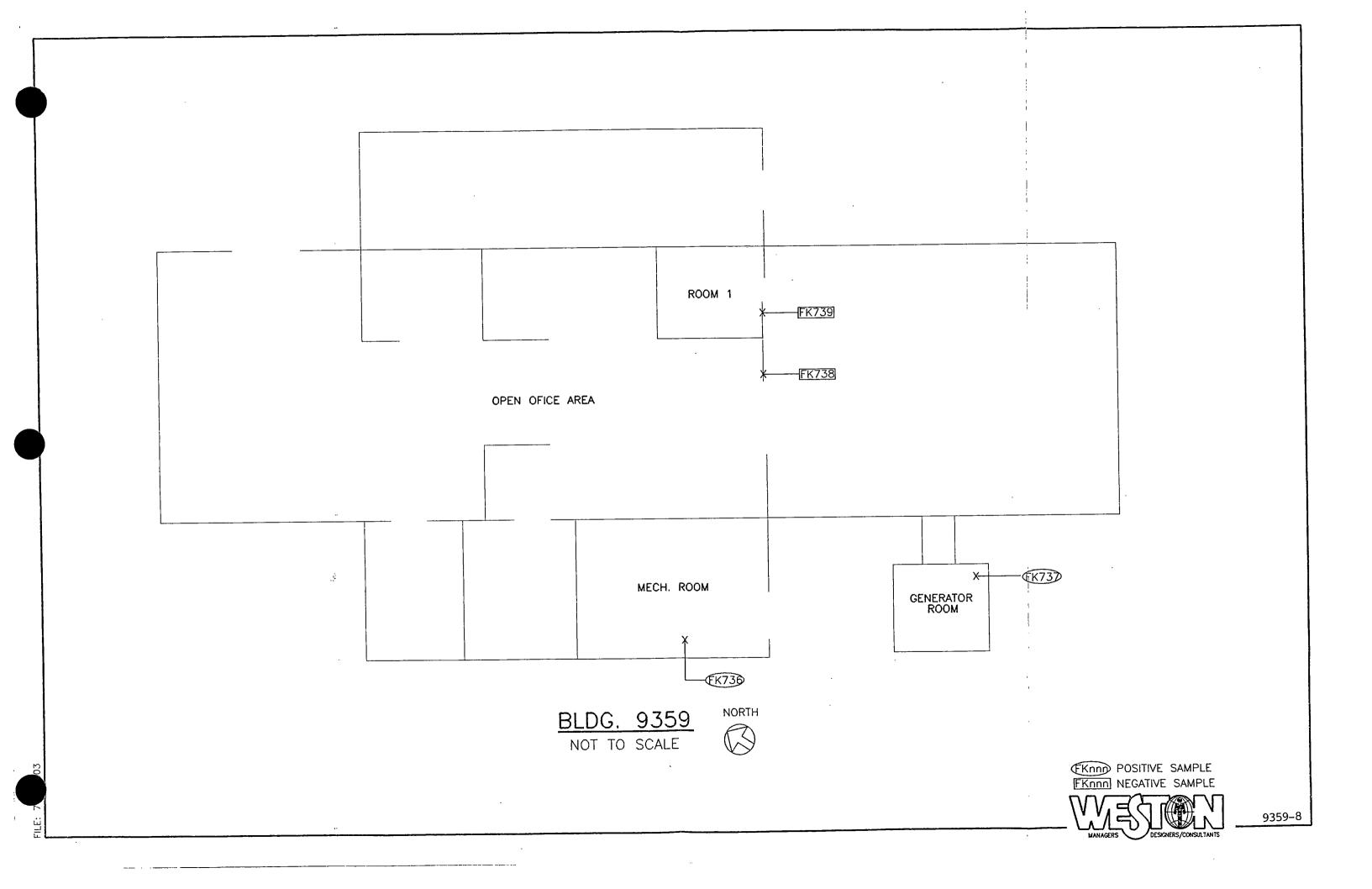
TABLE 9359.5 COST ESTIMATE* - BUILDING 9359, LABORATORY

DESCRIPTION	UNIT COST (\$)	AREA	AREA	TOTAL
ipe Fittings (EA)		<u> </u>	<u> </u>	•
4 ⁻ 8" 9-14" >14"	70.30 85.80 147.00 216.00	:	:	:
Pipe Runs (LF)				
4-8"	26.50 30.50 42.50 60.80	:	:	=
4-8" 9-14" >14"	26.8 8	:	=	Ξ
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
loor Tile (SF)	5.60	-	-	-
Boilers/Tanks (SF)	37.90	-	1.9	1.9
Air Handling Equipment (SF)	20.00	· -	-	-
Other		0.1	-	0.1
SUBTOTAL		0.1	1.9	2.0
Difficulty Allowance		-	-	-
SUBTOTAL		0.1	1.9	2.0
Decontamination Units Mobilization		1:8	1:5	3:8 2:8
SUBTOTAL		2.6	4.4	7.0
Contingency a 15.00%		0.4	0.7	1.1
SUBTOTAL		3.0	5.1	8.1
Design Fee a 10.00%	•	0.3	0.5	0.8
SUBTOTAL	,***	3.3	5.6	8.9
Air Monitoring a 10.00%	6	0.4	0.4	0.9 9.7
TOTAL		3.7	6.0	<u> </u>

^{*}Amounts Are In Thousands Of Dollars

AREA 1: GENERATOR ROOM

^{***}Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)
****The Minimum Air Monitoring Fee is \$500.00 Per Building



ADMINISTRATION

9400.1 GENERAL

Building 9400 was surveyed by WESTON's inspection team on 2 October 1992.

The first three portions of this facility report summarize the results of this inspection.

Assumed asbestos-containing floor tile (9" x 9" black) was found in the Building 9400 floor-space area. This material was not sampled; instead it was referenced to a similar floor tile found in Building 9044, which was tested to be ACM.

9400.2 ACM AND EXPOSURE ASSESSMENT

An area-by-area inventory of ACM is provided in Tables 9400.2 and 9400.3. "Other Asbestos-Containing Materials," listed in Table 9400.3, are materials that do not correspond to the standard caption categories listed in Table 9400.2. A prioritized listing of exposure assessments is presented in Table 9400.4. The method by which the exposure assessment priority index values are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.5 of this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9400.5. The method by which removal/replacement costs are calculated is described in ISSUES COMMON TO ALL BUILDINGS, Subsection 3.4 of this report.

9400.3 RECOMMENDATIONS/CONCLUSIONS

- Floor tile was the material in Building 9400 found to be ACM.
- Asbestos-containing floor tile present in Building 9400 should be labeled under the O&M Program.

TABLE 9400.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9400, ADMINISTRATION

		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
OAMBI E				DEDCENT	ACDECTOC
SAMPLE				PERCENT	ASDESTUS A
NO.	LOCATION	1TEM	DESCRIPTION	CH A	M OT LAYERED

Suspect material noted in this building was correlated with material sampled from adjacent buildings. Those materials that tested positive (i.e. that contains asbestos) are reflected in the schematic floor plans of this discussion and are included in the cost estimates (labor and material expenses) shown in the following tables.

SE = Southeast SW = Southwest

System Codes Asbestos Types Quadrant Codes CH = Chrysotile C = Center STM = Steam CHW = Chilled Water AM = Amosite N = North OT = Other HHW = Heating Hot Water E = East S = SouthDOM = Domestic Water OTH = Other W = West UNK = Unknown NE = Northeast NW = Northwest

^aAsbestos content presented for layered samples represents the highest concentration layer.

TABLE 9400.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9400, ADMINISTRATION

	Pl	PE FITT	INGS (EA)			PIPE RU	NS (LF)		SPRAY/TROWELED	FLOOR TILE	BOILERS/	AIR HANDLING	
AREA	<4 ¹¹	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"	CEILINGS (MSF)	(MSF)	TANKS (MSF)	EQUIPMENT (MSF)	OTHER
ST FLOOR- ENTIRE		-		-		<u> </u>	-	-		1.60		<u> </u>	
DTALS	-	_	-	-	•	-	-	-	-	1.60	-	-	_

Other Material Present In Various Units Of Measure

EA - Each LF - Linear Feet MSF - Thousand Square Feet

Table 9400.3

Other Asbestos-Containing Material - Building 9400, Administration Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other	Asbestos-Containing Material Found in th	is Building

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

TABLE 9400.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9400, ADMINISTRATION

			PRIOR.	PRIORITY		AVG.	
SAMPLE		MATERIAL	INDEX	INDEX	EXPOSURE FACTORS	EXP.	%
NO.	AREA	TYPE	CODE	NUMBER	1 2 3 4 5	HOURS	ASB.

Only Non-Friable Material Was Detected In This Building Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessability

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

Appendix

APPENDIX WALK-THROUGH BUILDINGS

Walk-through surveys were performed by WESTON in several Fort Monmouth buildings. The purpose of these surveys was to establish whether the buildings designated as "walk-through" are similar to the primary buildings (referenced buildings) with respect to construction and suspect asbestos materials.

The data presented on walk-through buildings provide a general guideline on the type and quantity of ACM that can be expected to be found in these buildings; however, since no actual sampling or analysis was performed in these buildings, the data collected should be used only as a management tool for establishing priorities for future asbestos management and abatement actions.

The following are the designated "walk-through" buildings. Listed opposite are their corresponding primary buildings:

Walk-Through	<u>Primary</u>
Building 406	Building 405
Building 410	Building 443
Building 426	Building 443
Building 616	Building 826
Building 804	Building 801
Building 828	Building 866
Building 9401	Building 9013

BUILDING 406

A walk-through survey was performed in Building 406 on 17 August 1992.

During the walk-through survey, suspect asbestos-containing floor tiles were found in Building 406. No other suspect ACM was found in this building.

No floor tile was found in Building 405 (primary building).

BUILDING 410

A walk-through survey was performed in Building 410 on 17 August 1992.

During the walk-through survey, suspect asbestos-containing floor tiles, expansion cloth, linoleum flooring, and transite panels were found in Building 410.

The transite panels found in Building 443 (primary building) were sampled and confirmed to be ACM.

BUILDING 426

A walk-through survey was performed in Building 426 on 17 August 1992.

During the walk-through survey, suspect asbestos-containing floor tiles, transite panels, linoleum flooring, and expansion cloth were found in Building 426.

One of the offices on the second floor (MSG. Luettchan's office) was not accessible during the walk-through survey.

The transite panels found in Building 443 (primary building) were sampled and confirmed to be ACM.

BUILDING 616

A walk-through survey was performed in Building 616 on 18 August 1992.

During the walk-through survey, suspect asbestos-containing floor tiles were found in the office area and transite ceiling panels were found in the mechanical room of Building 616.

The floor tile (9" x 9") found in Building 826 (primary building) was sampled and confirmed to be ACM. No transite panel was found in Building 826.

BUILDING 804

A walk-through survey was performed in Building 804 on 19 August 1992.

During the walk-through survey, suspect asbestos-containing linoleum flooring and floor tiles were found in Building 804. The mechanical rooms were not accessible during the survey due to the doors (to the mechanical rooms) being jammed.

The floor tile found in Building 801 (primary building) was sampled and tested to be non-ACM. No linoleum flooring was found in Building 801.

BUILDING 828

A walk-through survey was performed in Building 828 on 20 August 1992.

During the walk-through survey, suspect asbestos-containing transite panels, floor tiles, tank insulation, and pipe fitting insulation were found in Building 828.

The floor tiles (9" x 9"), tank insulation, and pipe fitting insulation found in Building 866 (primary building) were sampled and confirmed to be ACM.

No transite panel was found in Building 866.

BUILDING 9401

A walk-through survey was performed in Building 9401 on 2 October 1992.

During the walk-through survey, suspect asbestos-containing floor tiles (12" x 12" and 9" x 9"), ceiling tiles, and insulation cloth (in the mechanical room) were found in Building 9401.

The floor tiles (12" x 12" and 9" x 9") found in Building 9013 (primary building) were sampled and confirmed to be ACM.