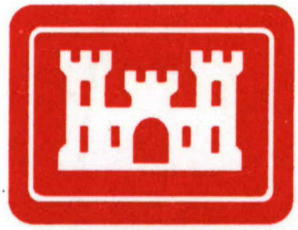
Vol 1of3
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US Army Corps of Engineers

Toxic and Hazardous Materials Agency

Final

ASBESTOS SURVEY RESULTS

Volume I

Fort Douglas
Environmental Investigation/Alternatives Anaiysis

Contract No. DAAA15-90-D-0018
Task Order 0005, Data Item A009

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December 1991

Distribution Unlimited
Approved for Public Release

THAMA Form 45, 1 Jul 90

FINAL

ASBESTOS SURVEY RESULTS FOR FORT DOUGLAS, UTAH

DECEMBER 1991

CONTRACT NO. DAAA-15-90-D-0018

TASK ORDER 0005

FORT DOUGLAS
ENVIRONMENTAL INVESTIGATION/ALTERNATIVES ANALYSIS

VOLUME I

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	asbestos containing material
ACBM	asbestos containing building materials
AHERA	Asbestos Hazard Emergency Response Act
DEH	Directorate of Engineering and Housing
EI	Environmental Investigation
EPA	U.S. Environmental Protection Agency
f/cc	fibers per cubic centimeter
HASP	Health and Safety Plan
Misc	Miscellaneous materials
NCO	non commissioned officer
O & M	Operations and Maintenance
PA	Preliminary Assessment
QAPP	Quality Assurance Project Plan
QC	quality control
RLSA	R.L. Stollar and Associates
SM	surfacing materials
TSI	thermal system insulation
USATHAMA	United States Army Toxic and Hazardous Materials Agency

EXECUTIVE SUMMARY

R.L. Stollar and Associates, Inc. (RLSA) conducted an asbestos survey and bulk sampling of materials in the excessed area at Fort Douglas, Utah. Fort Douglas is located near Salt Lake City, Utah. The excessed area of the facility consists of 51 acres and includes 51 structures which were evaluated for asbestos.

The purpose of the survey was to identify all areas that may have asbestos-containing material (ACM), assess the extent and condition of friable versus nonfriable ACM, assess the potential for disturbance, and provide recommendations for corrective actions when necessary. The program was designed in accordance with the Asbestos Hazard Emergency Response Act (AHERA) and Army methods and procedures.

Results of Survey and Sampling

Several types of materials were found to contain asbestos in the excessed area at Fort Douglas. ACMs are classified as either friable or nonfriable (AHERA). An ACM is defined as friable if it can be crumbled, pulverized, or reduced to powder by hand pressure when dry and includes any previously nonfriable material after it becomes damaged to the extent that it meets these criteria. A nonfriable material does not meet these criteria (40CFR, Part 61, Subpart M- National Emission Standard for Asbestos). A material sample is considered positive if asbestos is detected at greater than 1.0 percent. Friable ACM identified on the excessed portion of Ft. Douglas include: air cell insulation, joint compound, MAG-block insulation, paper pipe wrap insulation, soundproofing, textured plaster, and sheetrock/joint compound. Nonfriable ACM identified include: linoleum, transite panels, 9-in. x 9-in. (9x9) floor tiles, and 12-in. x 12-in. (12x12) floor tiles.

The friable materials identified predominantly occur in two general categories: thermal system insulation (TSI), and surfacing material (SM). The basements of most buildings contained several types of thermal system insulation (TSI). All samples of surfacing material (SM) in the form of sprayed-on acoustical ceilings (soundproofing) tested positive for asbestos. Soundproofing was located in Buildings 49, 54, and 55. Textured plaster and sheetrock/joint compound also tested positive for asbestos.

The nonfriable materials found to contain asbestos are categorized as miscellaneous materials (AHERA) and were generally found in the kitchens, bathrooms, and laundry rooms of the buildings. These include: transite panels and some types of linoleum, 9 x 9 floor tiles, and 12 x 12 floor tiles.

Friable ACM presents the greatest potential for risk and exposure because if it is damaged, asbestos fibers can become airborne. Risk and exposure were quantified for friable asbestos by assessing the evidence of physical damage and potential exposure to human populations. Recommended actions based on the risk and exposure calculations are summarized in Table 4.1-4

Recommended Corrective Actions

The condition of friable asbestos in nineteen of the surveyed building requires immediate corrective actions. The friable asbestos in most of these building is located in the basement. This presents a problem when basement areas are used as living or storage space. Four buildings contain friable asbestos where the recommended corrective action is to address the situation as soon as possible. The recommended actions for the other buildings surveyed that contain friable asbestos range from planned actions for removal or repair of the material to no action necessary until renovation or demolition of the building or conditions of the ACM change. All buildings that contain friable asbestos and the associated assessment of physical damage and potential exposure are shown in Tables 4.1-1 and 4.1-4.

1.0 INTRODUCTION

An asbestos survey and assessment at Fort Douglas, Utah was conducted to locate, sample, and analyze potential asbestos-containing materials (ACM). The location and extent of the ACM, differentiation between friable and nonfriable asbestos, and recommendations for corrective actions are provided. A material is defined as friable if it be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friable material includes any previously nonfriable material after it becomes damaged to the extent that it meets these criteria. A nonfriable material is one that does not meet the above criteria (40 CFR, Part 61, Subpart M- National Emission Standard for Asbestos).

1.1 TASK DESCRIPTION

The asbestos survey was conducted at Fort Douglas, Utah in support of an Environmental Investigation/Alternatives Analysis (EI/AA) (Figure 1-1). The EI/AA which was directed by the Post Closure and Realignment Act (Public Law 100-526) is being performed to aid in the closure of approximately 51 acres of Fort Douglas. The EI/AA is designed to assess hazardous substances which are known or suspected to be present at the site and to evaluate remedial actions which may be necessary to control releases to the environment prior to transfer of Fort Douglas. The purpose of the asbestos survey was to identify all areas that may have ACM, assess the extent and condition of friable versus nonfriable ACM, assess the potential for disturbance, and provide recommendations for corrective actions when necessary. Following closure, the approximately 51 acres will be declared as excess property (Figure 1-2) for public disposal. The remaining acreage will be retained by the federal government for use as a Military Reserve Center.

Fort Douglas was established as Camp Douglas on October 26, 1862, near Salt Lake City, Utah, primarily to guard the Overland Mail route from hostile Indians and protect the lines of communication that linked the east and west coasts. Presently, the 119-acre installation includes 117 structures, including 36 housing structures containing 61 housing units. Portions of the site are entered in the National Register of Historic Places or are a National Historic Landmarks. The Final Asbestos Sampling Plan (ASP) contains additional detail about the history of the site (RLSA, 1991a).

The approximately 51-acre area to be excessed includes 51 structures which were evaluated for asbestos content (Figure 1-3). Thirty-six of the structures are housing units. The remaining structures include administrative offices, officers clubs, detached garages, museum, chapel, latrine, bath house, gas-valve building, and water treatment building. Each structure is assigned a building

number. Structures containing multiple housing units are identified by building numbers with letters (a,b, or c) which identify the position of each unit. The structures were constructed primarily between 1874 and 1942. The gas valve building, now vacant, was constructed in 1954. Eight of the detached garages were built in 1972. A swimming pool, rebuilt in 1988, is also to be excessed. Much of the area to be excessed is within the National Historic Landmark area, and most of the buildings are included in National Register of Historical Places.

1.2 SURVEY AND ASSESSMENT PROCEDURES

Previous asbestos investigations at Fort Douglas have been limited in scope. As part of an Enhanced Preliminary Assessment (PA), some of the buildings were surveyed for asbestos. Photographs were taken; however, no samples were collected. Prior to the PA, the Army sampled suspected ACM from four buildings. These samples which were analyzed and the results confirmed the presence of asbestos. The current asbestos field program was conducted by R.L. Stollar & Associates (RLSA) personnel certified by the Environmental Protection Agency (EPA), Salt Lake City, and Salt Lake County. RLSA was also certified by the Utah Department of Health as the project operator.

The program was designed in accordance with the Asbestos Hazard Emergency Response Act (AHERA) and Army methods and procedures. AHERA requires the inspection and assessment of asbestos-containing building materials (ACBM) excluding materials installed outside a building, such as roofing felt and siding, and all fabric materials. Army regulations do not make this distinction and require inspection of all ACM. Both regulations require that all areas of each building be inspected to identify locations of all friable and nonfriable suspected ACM (or ACBM), and determine friability by touching the suspected material. According to both regulations, an assessment of the physical condition of friable known or assumed ACM (or ACBM) will be made. Army regulations also require the identification of the location and condition of nonfriable ACM (TM5-612, Chapter 5, paragraph 5-2.a.). When the regulations differed, the more conservative approach was used for the Fort Douglas program.

Floor plans were used to divide building areas into functional spaces. Functional spaces were defined for this study as spatially distinct units within a building which can contain human populations and/or spaces designed to transport air to or from human populations. Functional spaces include mechanical spaces such as attics, air plenums, elevator shafts, and machine rooms; common areas including hallways, stairwells, meeting rooms, garages; living/working areas such as offices, classrooms, rooms in an apartment or house; and special use areas such as kitchens, dining rooms, laundry rooms, athletic

facilities. Each functional space within each building was assigned a unique number for the purposes of the survey.

The survey was nondestructive in nature. Structural units such as walls or floors were not removed to check for ACM; however, moveable objects such as ceiling tiles, trap doors and furniture were displaced when needed in order to completely examine each functional space. All potential ACM surfaces were examined for friability. The location and description of all suspect ACM materials was recorded. The approximate amount of the material was determined, and the condition (risk number) and potential for disturbance (exposure number) assessed.

Suspect homogeneous ACM were delineated. A homogeneous material is uniform in texture and appearance, and is unlikely to consist of more than one type or formulation of mix. If several floors or buildings contained the same homogeneous material, the separate locations were considered to exhibit a single homogeneous material. At least one bulk sample was collected from each type of suspect homogenous ACM. A sample tested positive when asbestos was found at greater than 1.0 percent. An analytical result of LT 0.5 percent asbestos reflects the confidence level for which lab personnel can determine no fiberous minerals were found. The ASP, Quality Assurance Project Plan (QAPP), and Health and Safety Plan (HASP) provide additional technical information on the field program design (RLSA, 1991, a, b, c).

Some suspect homogenous materials tested both positive and negative for asbestos. This is possible because of:

(1) inherent bias in the analytical method

(2) inherent variabilities in material composition.

The polarized light microscopy (PLM) method was used to analyze the samples at Ft. Douglas. This method is approved for asbestos bulk sample analysis (40 CFR, Part 783, Appendix A to Subpart F).

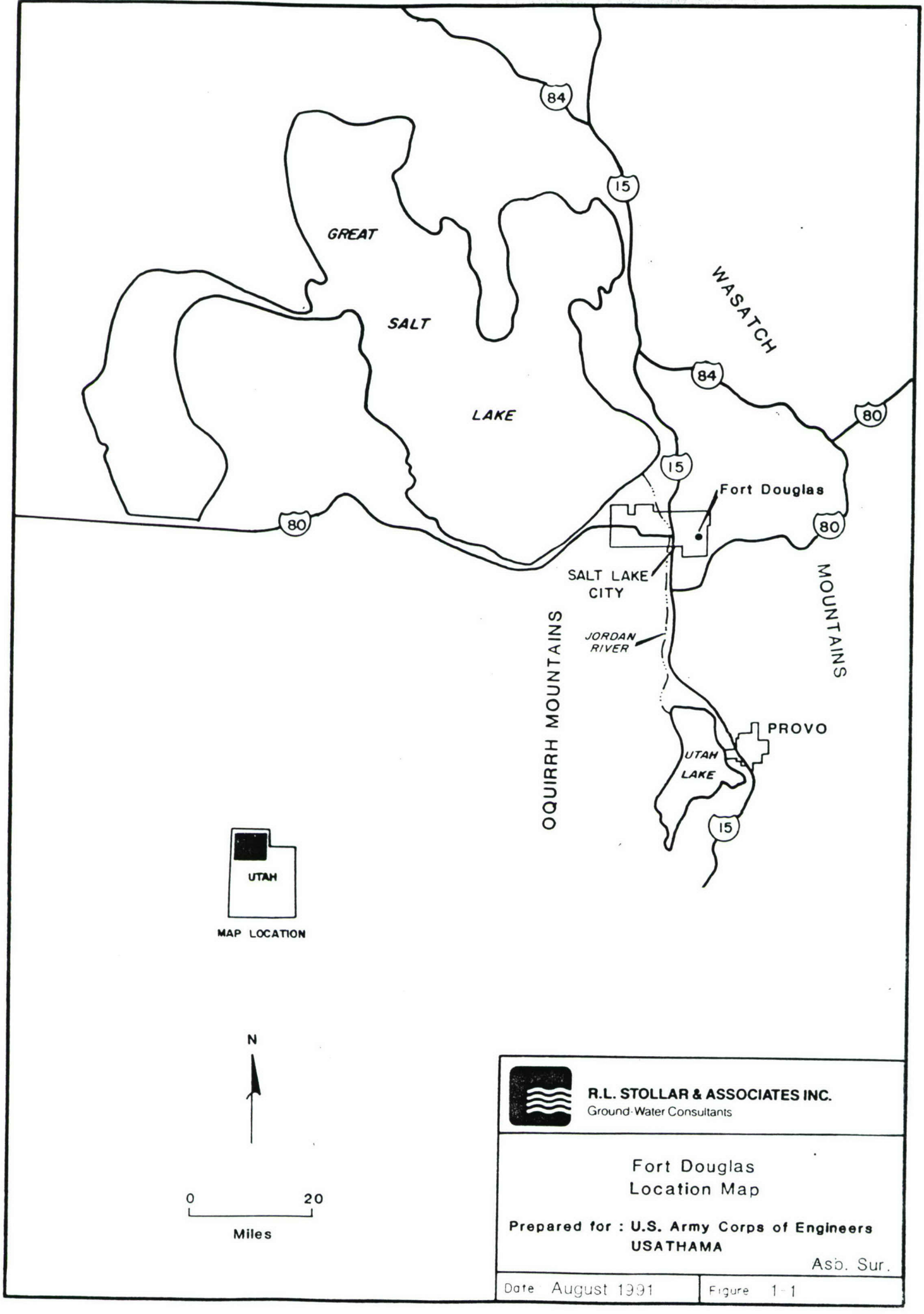
Friable and nonfriable materials have different inherent variabilities in composition. Joint compound, a friable material, tends to be less uniform in composition than linoleum or floor tile which are nonfriable materials. Due to this variability, friable materials are generally more likely to show false negative values when tested for asbestos (personal comm. E. Thomas).

Because the composition of friable materials can be variable, if at least one sample of a friable homogeneous material tested positive for asbestos, all locations of that homogeneous material are assumed to contain asbestos.

In the case of nonfriable material, only three types sampled in this survey tested both positive and negative for asbestos. These materials are linoleum, 9x9 floor tiles, and 12x12 floor tiles. Several different types of linoleum and floor tile are located throughout the surveyed area. All of these have been sampled at least once. Photographs of the linoleum and floor tile found to contain asbestos are included with this report.

The main body of the report organizes the asbestos survey data into two different formats. The first portion of the report is organized by type of homogeneous material. There are three basic categories into which each type of homogeneous material can be grouped: thermal system insulation (TSI), surfacing materials (SM), and miscellaneous materials (Misc). The homogeneous materials within each group are discussed individually. The total approximate footage and the approximate footage per building of each type of homogeneous material is presented. The second portion of the report is organized by building. The various types of ACM located, their extent, and nature (friable versus nonfriable) are presented by building. The sample locations and analytical results are also provided for each building.

Appendix A contains a summary of the analytical results of the samples obtained during the survey. Appendix B contains copies of floor plans for each building surveyed. Field generated sample locations, and the assigned functional space numbers are denoted on these floor plans. Each functional space in each structure to be excessed was assigned a number and surveyed for potential asbestos. Appendix C contains representative photographs of suspect homogenous materials identified during the survey. The final versions of Appendices A, B, and C are unchanged from the draft versions. Appropriate covers were supplied.


84
15
GREAT
SALT
LAKE
WASATCH
84
80
15
Fort Douglas
80
80
SALT LAKE
CITY
JORDAN
RIVER
OQUIRRH MOUNTAINS
MOUNTAINS
PROVO
UTAH
LAKE
15
UTAH
MAP LOCATION
N
0
20
Miles
R.L. STOLLAR & ASSOCIATES INC.
Ground-Water Consultants
Fort Douglas
Location Map
Prepared for : U.S. Army Corps of Engineers
USATHAMA
Asb. Sur.
Date August 1991
Figure 1-1

EXPLANATION

—·—·— Fort Douglas boundary

Excessed Area

PARADE GROUND

OFFICER'S CIRCLE

STORAGE YARD

Swimming Pool

WASATCH DRIVE

RED BUTTE CREEK

CEMETERY

Retained Area

Excessed Area

N

0 400 800

FEET

R.L. STOLLAR & ASSOCIATES INC.
Ground-Water Consultants

Site Plan
Fort Douglas

Prepared for:
U.S. Army Corps of Engineers
USATHAMA
Asb. Sur.

Date: August 1991

Figure 1-2

EXPLANATION

---------- Asbestos Sampling Area Boundary

Excessed Area

Retained Area

PARADE GROUND

STORAGE YARD

Swimming Pool

WASATCH DRIVE

Red Butte Creek

FORT DOUGLAS BOULEVARD

OFFICER'S CIRCLE

COLVIN ROAD

LEWIS STREET

GIBBON STREET

VOLLUM STREET

RED BUTTE CANYON ROAD

SERVICE ROAD

DE THOMASIAN STREET

-N-

0 300 600

FEET

R.L. STOLLAR & ASSOCIATES INC.
Ground-Water Consultants

Excessed Area Structure Locations
Fort Douglas

Prepared for:
U.S. Army Corps of Engineers
USATHAMA

Asb. Sur.

Date: August 1991

Figure 1-3

2.0 ASSESSMENT OF SURVEY RESULTS BY HOMOGENOUS MATERIAL

The three basic categories into which each homogeneous material described in this report can be grouped are: TSI, SM, and miscellaneous materials. Each homogeneous material is discussed individually and the approximate total linear footage or total square footage of that material found in the excessed area is given. At least one sample was collected from each suspect homogeneous ACM located in the excessed area. A sample tested positive when asbestos was found at greater than 1.0 percent.

2.1 THERMAL SYSTEM INSULATION

TSI consists of material applied to heating, air conditioning, and ventilation systems. These ACM are used to prevent the loss or gain of heat from mechanical units or parts. These materials are generally friable and can be disturbed during maintenance or cleaning.

2.1.1 AIR-CELL INSULATION

The air-cell insulation is a friable material that was generally found around heating pipes in the basements of buildings. Forty-six of 49 samples tested positive for asbestos. Table 2.1-1 presents the location and approximate amount of air-cell material by building and also the approximate total of the material present in all the buildings surveyed. The total approximate linear footage of air-cell insulation at the site is 7,612 feet.

2.1.2 JOINT COMPOUND

Mudded joint compound, a friable material, was generally used at pipe elbows and joints to fill in the gaps between insulating materials. The term, joint compound, used in this report applies to material associated with air-cell, MAG-block, and paper pipe wrap insulation and was usually located in the basement of buildings. Twenty-nine of 33 samples tested positive for asbestos. The building location and approximate amount of joint compound present in the surveyed area are presented in Table 2.1-2. The total approximate linear footage of joint compound at the site is 808 feet.

2.1.3 JOINT COMPOUND ON FIBERGLASS

This material is used for the same purpose as the previous joint compound material, but is only associated with fiberglass insulation. This material was generally located in the basements of the buildings. The samples of joint compound associated with fiberglass tested negative for asbestos. The building location and approximate amount of joint compound on fiberglass in the surveyed area are presented in Table 2.1-3. The total approximate linear footage of the material at the site is 68 feet.

2.1.4 MAG-BLOCK INSULATION

MAG-block is a friable material also used as pipe and boiler insulation and was generally found in the basement of the buildings. Thirteen of 14 samples of MAG-block insulation tested positive for asbestos. The building location and approximate amount of MAG-block insulation present in the surveyed area are presented in Table 2.1-4. The total approximate linear footage of MAG-block insulation at the site is 1,240 feet.

2.1.5 PAPER PIPE WRAP INSULATION

Paper pipe wrap was often used for duct insulation. It is a friable material and was generally found in the basement of the buildings. Seven of nine samples of paper pipe wrap tested positive for asbestos. Table 2.1-5 presents the building location and approximate amount of paper pipe wrap insulation present in the surveyed area. The total approximate linear footage of paper pipe wrap at the site is 358 feet.

2.1.6 WOOL PIPE WRAP INSULATION

Wool pipe insulation was limited in extent to one building. It is a nonfriable material that was used as pipe insulation. A sample of wool pipe insulation tested negative. Table 2.1-6 shows the building location and approximate amount of the insulation present in the surveyed area. The total approximate linear footage of wool pipe wrap insulation at the site is 31 feet.

2.2 SURFACING MATERIALS

SM consists of sprayed-on or troweled-on plaster-like materials. An example of such a material is sprayed-on acoustical ceiling. These materials are friable and pose a high risk of exposure due to the fact that they are generally applied to living or recreational areas.

2.2.1 SOUNDPROOFING MATERIAL

Soundproofing material was found in only three buildings and is present as sprayed-on acoustical ceilings. This material is friable and all four samples taken tested positive for asbestos. The building location and approximate amount of soundproofing material are shown in Table 2.2-1. The total approximate square footage of soundproofing material at the site is 5,436 square feet.

2.3 MISCELLANEOUS MATERIALS

Miscellaneous materials represent the largest group of ACM. Most of these materials are nonfriable and pose a lower health or exposure risk than the other two types of ACM. Of the three types of ACM found at Fort Douglas, miscellaneous materials were most often found, and these in the form of linoleum and floor tile.

2.3.1 ADHESIVE MATERIALS

A wide variety of adhesive materials occurred in the surveyed area. The materials were nonfriable and generally located within the living areas of the buildings. Adhesives from mop board, linoleum, carpet, and tile were sampled and all five samples taken tested negative for asbestos. The location by building and approximate amounts of adhesive materials is shown in Table 2.3-1. The total approximate linear footage of adhesive materials at the site is 7,336 feet.

2.3.2 CEILING AND WALL PLASTER

Ceiling and wall plaster is a friable material located throughout the buildings in the surveyed area. All nine samples from the plaster tested negative for asbestos. The building location and approximate amount of the material are shown in Table 2.3-2. The total approximate square footage of plaster at the site is 230,572 square feet.

2.3.3 CEILING PAPER

Ceiling, or moisture, paper was limited in extent. This friable material was only found in the basement of a few buildings and the two samples taken tested negative for asbestos. The building location and approximate amount of the material are shown in Table 2.3-3. The total approximate square footage of ceiling paper at the site is 510 square feet.

2.3.4 CEILING SHEET PANELS

Ceiling sheet panels are a fiberboard-like material that is limited in extent. The three samples taken from this friable material tested negative for asbestos. The building location and approximate amount of the material are shown in Table 2.3.4. The total approximate square footage of ceiling sheet panels at the site is 2,632 square feet.

2.3.5 CONCRETE EXPANSION/JOINT MATERIAL

This material is limited in extent to one building. A sample taken from this material tested negative for asbestos. Table 2.3-5 shows the building location and approximate amount of the material. The total approximate linear footage of the material is 40 feet.

2.3.6 LINOLEUM

Many different types of linoleum are located throughout the surveyed area. Samples taken from this material tested both positive and negative for asbestos. Forty-nine of 110 samples tested positive for asbestos. Photographs of the types of linoleum that contained asbestos and the types that did not contain asbestos are included with this report. Unless a linoleum is one of the materials tested and found not to contain asbestos, it should be assumed that all linoleum at the site contains asbestos. Table 2.3-6 shows the building location, sample results, and approximate square footage of the material. The total approximate square footage of the material at the site is 46,228 square feet.

2.3.7 ROOF SEALANT

Roof sealant was used to adhere the roof shingles to one of the buildings. One sample of this nonfriable material was taken and tested negative for asbestos. Table 2.3-7 shows the building

location and approximate amount of the material at the site. The approximate total square footage of roof sealant is 1,500 square feet.

2.3.8 Roof Shingles

Roof shingles are a nonfriable material located on the exterior of most of the buildings. Four samples of this material were taken and tested negative for asbestos. Table 2.3-8 shows the building location and approximate amount of the material at the site. The approximate total square footage of the material is 7,500 square feet.

2.3.9 Sheetrock

Sheetrock is a friable material used as a wall covering and located throughout the buildings at the site. Fourteen samples of this material were taken and tested negative for asbestos. Table 2.3-9 indicates the building location and approximate amount of the material at the site. The approximate total square footage of the material is 42,329 square feet.

2.3.10 Sheetrock/Joint Compound

Sheetrock/joint compound is a friable material used to connect panels of Sheetrock. It is associated with the Sheetrock located throughout the buildings. Generally Sheetrock/joint compound is grouped with Sheetrock for abatement planning. Six samples were taken of Sheetrock/joint compound. One sample tested positive for asbestos (2.0 percent) (Table 2.3-10).

2.3.11 Tar paper

Tar paper, or roofing felt, is often located below the outer roofing material. All eight samples of this nonfriable material tested negative for asbestos. Table 2.3-11 shows the building location and approximate amount of the material at the site. The approximate total square footage of the material is 7,286 square feet.

2.3.12 Textured Plaster

Textured plaster was limited in location at the site. This friable material was usually textured in a brick pattern. One of the two samples obtained tested positive for asbestos. Table 2.3-12 shows the

building location and approximate amount of the material at the site. The approximate total square footage of the material is 130 square feet.

2.3.13 TRANSITE PANELS

Transite panels were found at various locations throughout the site. This nonfriable material was used as both interior wall cover and exterior siding. All 11 samples taken tested positive for asbestos. Table 2.3-13 shows the building location and approximate amount of the material at the site. The approximate total square footage of the material is 6,484 square feet.

2.3.14 WHITE POWDER (UNKNOWN)

This material was found scattered on the floor at one location in the study area. It tested negative for asbestos. The building location and approximate amount of this material are listed in Table 2.3-14. The approximate total square footage of the material is 30 square feet.

2.3.15 WIRE WRAP

Wire wrap, usually associated with pipes or wires, was located throughout buildings at the site. The four samples taken from this nonfriable material tested negative for asbestos. The building location and approximate amount of this material are listed in Table 2.3-15. The approximate total linear footage of the material is 7,941 feet.

2.3.16 9X9 FLOOR TILES

The 9x9 floor tiles are located throughout the buildings. Five of nine samples taken from this nonfriable material tested positive for asbestos. Table 2.3-16 presents the building location and approximate amount of the material at the site. The total approximate square footage of the material is 4,240 square feet.

2.3.17 12X12 FLOOR TILES

The 12x12 floor tiles are located throughout the buildings. One of nine samples of this nonfriable material tested positive for asbestos. Table 2.3-17 shows the building location and approximate amount of the material. The total approximate square footage of the material is 4,639 square feet.

2.3.18 12x12 Ceiling Tiles

The 12x12 ceiling tiles are located throughout the living areas of the buildings. This friable material tested negative for asbestos. Table 2.3-18 shows the building location and approximate amount of the material. The total approximate square footage of the material is 2,360 square feet.

2.3.19 2x4 Ceiling Panels

The 2x4 ceiling panels are located throughout the living areas of the buildings. Ten samples of this friable material tested negative for asbestos. Table 2.3-19 shows the building location and approximate amount of the material. The total approximate square footage of the material is 5,866 square feet.

2.3.20 2x2 Ceiling Panels

The 2x2 ceiling panels are located throughout the living areas of the buildings. Two samples of this friable material tested negative for asbestos. The building location and approximate amount of the material are shown in Table 2.3-20. The total approximate square footage of the material is 908 square feet.

2.4 Summary

The most predominate problem observed during the inspection of the excessed area at Fort Douglas was the use of basement areas as living spaces, where most of the friable asbestos is located. Some basements were being used as bedrooms. More commonly, the basements were used as storage areas. These uses tend to increase the amount of damage to the ACM which, in turn, will increase the exposure risk. If these practices are discontinued and EPA recommended guidelines for "Managing Asbestos in Place" (EPA, 1990) are followed, the ACM present on post will pose little or no exposure risk. (See Section 4.2 of this report).

Table 2.1-1 Summary of Asbestos Survey Results for Air Cell Insulation

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
1A	Air Cell Insulation	1A-001	Y	Fair	38	35.0
1B	Air Cell Insulation	1B-002	Y	Fair	59	35.0
2A	Air Cell Insulation	2A-001	Y	Fair	110	60.0
2B	Air Cell Insulation	2B-001	Y	Fair	67	LT 0.5
2B	Air Cell Insulation	2B-002	Y	Fair	67	30.0
2B	Air Cell Insulation	2B-003	Y	Fair	67	40.0
3	Air Cell Insulation	3-002	Y	Fair	206	65.0
4	Air Cell Insulation	4-004	Y	Fair	450	35.0
6A	Air Cell Insulation	6A-001	Y	Fair	117	40.0
6B	Air Cell Insulation	6B-001	Y	Poor	160	60.0
7A	Air Cell Insulation	7A-001	Y	Fair	167	25.0
7B	Air Cell Insulation	7B-001	Y	Poor	140	60.0
8A	Air Cell Insulation	8A-002	Y	Fair	130	35.0
8B	Air Cell Insulation	8B-008	Y	Fair	110	75.0
9A	Air Cell Insulation	NS	Y	Fair	116	
9B	Air Cell Insulation	9B-002	Y	Poor	78	30.0
10A	Air Cell Insulation	10A-001	Y	Fair	56	70.0
10B	Air Cell Insulation	10B-004	Y	Fair	100	65.0
11A	Air Cell Insulation	11A-003	Y	Fair	80	23.0
11B	Air Cell Insulation	NS	Y	Fair	200	
12A	Air Cell Insulation	12A-001	Y	Poor	110	45.0
12B	Air Cell Insulation	12B-001	Y	Fair	90	45.0
13A	Air Cell Insulation	13A-001	Y	Fair	80	40.0
14A	Air Cell Insulation	14A-001	Y	Fair	132	40.0
14B	Air Cell Insulation	14B-001	Y	Poor	150	40.0
15A	Air Cell Insulation	15A-003	Y	Fair	121	30.0
15B	Air Cell Insulation	15B-001	Y	Fair	190	35.0
16A	Air Cell Insulation	16A-001	Y	Fair	275	60.0
16B	Air Cell Insulation	16B-001	Y	Fair	130	40.0
17A	Air Cell Insulation	17A-001	Y	Fair	150	35.0
17B	Air Cell Insulation	17B-002	Y	Fair	195	40.0
18A	Air Cell Insulation	18A-002	Y	Poor	160	35.0
18B	Air Cell Insulation	18B-001	Y	Fair	100	40.0
18C	Air Cell Insulation	18C-002	Y	Fair	80	70.0
19A	Air Cell Insulation	19A-001	Y	Poor	195	55.0
19B	Air Cell Insulation	19B-002	Y	Fair	80	40.0
19C	Air Cell Insulation	19C-002	Y	Poor	376	60.0
20	Air Cell Insulation	20-001	Y	Fair	455	65.0
21	Air Cell Insulation	21-001	Y	Fair	100	29.0
22	Air Cell Insulation	22-001	Y	Fair	180	LT 0.5
23	Air Cell Insulation	23-001	Y	Fair	200	40.0
24	Air Cell Insulation	24-002	Y	Fair	380	65.0
25	Air Cell Insulation	25-002	Y	Fair	280	65.0
32	Air Cell Insulation	32-001	Y	Fair	2	LT 0.5
48	Air Cell Insulation	NS	Y	Poor	2	
49	Air Cell Insulation	49-007	Y	Fair	200	30.0
54	Air Cell Insulation	54-004	Y	Poor	240	20.0
58A	Air Cell Insulation	NS	Y	Fair	5	
58B	Air Cell Insulation	NS	Y	Good	6	
60B	Air Cell Insulation	60B-001	Y	Good	60	30.0
64A	Air Cell Insulation	64A-002	Y	Fair	10	75.0
64B	Air Cell Insulation	64B-001	Y	Fair	92	30.0
65A	Air Cell Insulation	65A-001	Y	Fair	120	45.0
65B	Air Cell Insulation	65B-002	Y	Fair	148	65.0
				Total Approx. Footage	7612 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.1-2 Summary of Asbestos Survey Results for Joint Compound

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
1A	Joint Compound	1A-004	Y	Fair	11	40.0
1B	Joint Compound	1B-001	Y	Fair	11	40.0
2A	Joint Compound	2A-002	Y	Fair	6	30.0
6A	Joint Compound	6A-002	Y	Fair	23	20.0
6B	Joint Compound	NS	Y	Fair	5	
7A	Joint Compound	7A-002	Y	Fair	15	30.0
7B	Joint Compound	7B-002	Y	Poor	11	25.0
8A	Joint Compound	8A-003	Y	Poor	10	30.0
8B	Joint Compound	8B-011	Y	Good	50	LT 0.5
9B	Joint Compound	9B-001	Y	Fair	7	20.0
10A	Joint Compound	10A-002	Y	Fair	14	30.0
10B	Joint Compound	10B-003	Y	Good	8	LT 0.5
11A	Joint Compound	11A-002	Y	Fair	14	30.0
12A	Joint Compound	12A-002	Y	Fair	6	40.0
12B	Joint Compound	12B-002	Y	Fair	10	30.0
13A	Joint Compound	13A-002	Y	Poor	3	40.0
13B	Joint Compound	13B-001	Y	Fair	97	35.0
14A	Joint Compound	14A-002	Y	Fair	10	40.0
15A	Joint Compound	15A-002	Y	Fair	19	25.0
15B	Joint Compound	15B-002	Y	Fair	60	25.0
16A	Joint Compound	16A-002	Y	Fair	4	30.0
16B	Joint Compound	16B-002	Y	Fair	7	30.0
17A	Joint Compound	17A-002	Y	Good	17	15.0
17B	Joint Compound	17B-001	Y	Fair	7	25.0
18B	Joint Compound	18B-002	Y	Fair	4	30.0
19A	Joint Compound	NS	Y	Poor	16	
19C	Joint Compound	19C-001	Y	Poor	7	25.0
20	Joint Compound	20-002	Y	Good	5	35.0
22	Joint Compound	22-002	Y	Fair	20	25.0
23	Joint Compound	NS	Y	Fair	10	
24	Joint Compound	24-001	Y	Fair	19	40.0
25	Joint Compound	25-001	Y	Fair	80	45.0
59	Joint Compound	59-004	Y	Good	50	LT 0.5
64A	Joint Compound	64A-001	Y	Fair	15	LT 0.5
64B	Joint Compound	64B-002	Y	Fair	23	30.0
65B	Joint Compound	65B-001	Y	Fair	34	40.0
			Total Approx. Footage		708 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.1-3 Summary of Asbestos Survey Results for Joint compound on Fiberglass

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
8A	Joint compound on Fiberglass	8A-004	Y	Fair	6	LT 0.5
8B	Joint compound on Fiberglass	8B-007	Y	Fair	60	LT 0.5
9A	Joint compound on Fiberglass	9A-003	Y	Fair	2	LT 0.5
			Total Approx. Footage		68 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.1-4 Summary of Asbestos Survey Results for MAG-Block Insulation

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
4	MAG-Block Insulation	4-008	Y	Fair	20	LT 0.5
7B	MAG-Block Insulation	7B-003	Y	Poor	47	30.0
8A	MAG-Block Insulation	8A-001	Y	Fair	5	30.0
9A	MAG-Block Insulation	9A-001	Y	Fair	30	15.0
10B	MAG-Block Insulation	10B-002	Y	Good	10	30.0
11B	MAG-Block Insulation	11B-001	Y	Fair	125	35.0
12B	MAG-Block Insulation	NS	Y	Fair	10	
13B	MAG-Block Insulation	NS	Y	Fair	20	
18A	MAG-Block Insulation	18A-001	Y	Fair	10	35.0
19B	MAG-Block Insulation	19B-001	Y	Fair	50	27.0
21	MAG-Block Insulation	21-002	Y	Fair	75	35.0
22	MAG-Block Insulation	NS	Y	Good	80	
32	MAG-Block Insulation	NS	Y	Fair	100	
58A	MAG-Block Insulation	58A-001	Y	Fair	98	45.0
58B	MAG-Block Insulation	58B-001	Y	Poor	110	35.0
60A	MAG-Block Insulation	60A-001	Y	Fair	65	20.0
60B	MAG-Block Insulation	NS	Y	Fair	40	
66A	MAG-Block Insulation	66A-001	Y	Fair	170	35
66B	MAG-Block Insulation	66B-001	Y	Fair	175	25.0
			Total Approx. Footage		1240 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.1-5 Summary of Asbestos Survey Results for Paper Pipe Wrap Insulation

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
2A	Paper Pipe Wrap Insulation	NS	Y	Fair	1	
22	Paper Pipe Wrap Insulation	NS	Y	Fair	100	
32	Paper Pipe Wrap Insulation	32-002	Y	Fair	3	15.0
48	Paper Pipe Wrap Insulation	48-005	Y	Fair	10	30.0
53	Paper Pipe Wrap Insulation	53-001	Y	Good	50	35.0
56A	Paper Pipe Wrap Insulation	56A-001	Y	Fair	20	45.0
56B	Paper Pipe Wrap Insulation	56B-001	Y	Fair	20	35.0
57A	Paper Pipe Wrap Insulation	57A-001	Y	Fair	20	40.0
57B	Paper Pipe Wrap Insulation	57B-001	Y	Poor	29	60.0
58A	Paper Pipe Wrap Insulation	58A-002	Y	Poor	5	LT 0.5
60A	Paper Pipe Wrap Insulation	NS	Y	Good	10	
64A	Paper Pipe Wrap Insulation	64A-003	Y	Fair	10	LT 0.5
64B	Paper Pipe Wrap Insulation	NS	Y	Fair	70	
65B	Paper Pipe Wrap Insulation	NS	Y	Good	10	
			Total Approx. Footage		358 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.1-6 Summary of Asbestos Survey Results for Wool Pipe Wrap Insulation

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
15A	Wool Pipe Wrap Insulation	15A-001	N	Fair	31	LT 0.5
			Total Approx. Footage		31 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.2-1 Summary of Asbestos Survey Results for Soundproofing

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
49	Soundproofing	49-003	Y	Fair	180	15.0
54	Soundproofing	54-008	Y	Poor	2300	8.0
54	Soundproofing	54-009	Y	Poor	2300	6.0
55	Soundproofing	55-003	Y	Poor	656	12.0
				Total Approx. Footage	5436 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-1 Summary of Asbestos Survey Results for Adhesive Materials

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
4	Adhesive Materials	4-007	N	Good	430	LT 0.5
9A	Adhesive Materials	NS	N	Good	160	
10B	Adhesive Materials	10B-006	N	Fair	100	LT 0.5
11B	Adhesive Materials	NS	N	Good	90	
14B	Adhesive Materials	NS	N	Good	500	
15B	Adhesive Materials	NS	N	Good	100	
17A	Adhesive Materials	NS	N	Good	500	
18A	Adhesive Materials	NS	N	Good	150	
19A	Adhesive Materials	NS	N	Good	400	
23	Adhesive Materials	NS	N	Fair	500	
25	Adhesive Materials	NS	N	Good	400	
39	Adhesive Materials	NS	N	Good	180	
48	Adhesive Materials	NS	N	Good	135	
49	Adhesive Materials	NS	N	Good	286	
52	Adhesive Materials	NS	N	Good	379	
53	Adhesive Materials	NS	N	Good	180	
54	Adhesive Materials	NS	N	Fair	720	
57A	Adhesive Materials	NS	N	Good	496	
58B	Adhesive Materials	NS	N	Good	182	
59	Adhesive Materials	59-002	N	Good	441	LT 0.5
60B	Adhesive Materials	NS	N	Good	120	
62	Adhesive Materials	62-002	N	Good	37	LT 0.5
65A	Adhesive Materials	NS	N	Good	200	
65B	Adhesive Materials	NS	N	Good	600	
350	Adhesive Materials	NS	N	Good	50	
			Total Approx. Footage		7336 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-2 Summary of Asbestos Survey Results for Ceiling and Wall Plaster

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
1B	Ceiling and Wall Plaster	NS	Y	Fair	100	
2A	Ceiling and Wall Plaster	2A-003	Y	Poor	400	LT 0.5
2B	Ceiling and Wall Plaster	2B-004	Y	Poor	10000	LT 0.5
4	Ceiling and Wall Plaster	NS	Y	Poor	10000	
5	Ceiling and Wall Plaster	NS	Y	Fair	144	
6A	Ceiling and Wall Plaster	NS	Y	Good	500	
6B	Ceiling and Wall Plaster	6B-003	Y	Fair	3000	LT 0.5
7B	Ceiling and Wall Plaster	NS	Y	Good	10000	
8A	Ceiling and Wall Plaster	NS	Y	Fair	10000	
8B	Ceiling and Wall Plaster	8B-002	Y	Good	10000	LT 0.5
9A	Ceiling and Wall Plaster	9A-002	Y	Fair	10000	LT 0.5
9B	Ceiling and Wall Plaster	NS	Y	Poor	500	
10A	Ceiling and Wall Plaster	NS	Y	Poor	500	
10B	Ceiling and Wall Plaster	NS	Y	Fair	10000	
11A	Ceiling and Wall Plaster	NS	Y	Fair	500	
11B	Ceiling and Wall Plaster	NS	Y	Good	10000	
12A	Ceiling and Wall Plaster	NS	Y	Fair	720	
12B	Ceiling and Wall Plaster	12B-003	Y	Poor	400	LT 0.5
13A	Ceiling and Wall Plaster	NS	Y	Fair	700	
13B	Ceiling and Wall Plaster	NS	Y	Poor	700	
14A	Ceiling and Wall Plaster	NS	Y	Fair	400	
14B	Ceiling and Wall Plaster	NS	Y	Good	10000	
15A	Ceiling and Wall Plaster	NS	Y	Fair	400	
15B	Ceiling and Wall Plaster	NS	Y	Good	300	
16B	Ceiling and Wall Plaster	NS	Y	Fair	100	
17B	Ceiling and Wall Plaster	NS	Y	Fair	720	
18A	Ceiling and Wall Plaster	NS	Y	Good	10000	
18C	Ceiling and Wall Plaster	18C-001	Y	Poor	8000	LT 0.5
19A	Ceiling and Wall Plaster	NS	Y	Good	10000	
19B	Ceiling and Wall Plaster	NS	Y	Good	10000	
23	Ceiling and Wall Plaster	NS	Y	Fair	10000	
24	Ceiling and Wall Plaster	NS	Y	Good	10000	
25	Ceiling and Wall Plaster	NS	Y	Good	10000	
32	Ceiling and Wall Plaster	NS	Y	Fair	15000	
48	Ceiling and Wall Plaster	NS	Y	Good	4000	
53	Ceiling and Wall Plaster	NS	Y	Good	10000	
54	Ceiling and Wall Plaster	NS	Y	Fair	5529	
57A	Ceiling and Wall Plaster	NS	Y	Good	3709	
57B	Ceiling and Wall Plaster	57B-002	Y	Poor	420	LT 0.5
58B	Ceiling and Wall Plaster	NS	Y	Good	2530	
60B	Ceiling and Wall Plaster	NS	Y	Good	8000	
62	Ceiling and Wall Plaster	NS	Y	Good	10000	
65A	Ceiling and Wall Plaster	65A-003	Y	Fair	3200	LT 0.5
65B	Ceiling and Wall Plaster	NS	Y	Good	100	
				Total Approx. Footage	230572 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-3 Summary of Asbestos Survey Results for Ceiling Paper

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
62	Ceiling Paper	62-001	Y	Fair	350	LT 0.5
63	Ceiling Paper	63-001	Y	Poor	160	LT 0.5
			Total Approx. Footage		510 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-4 Summary of Asbestos Survey Results for Ceiling Sheet Panels

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
1A	Ceiling Sheet Panels	1A-002	Y	Poor	132	LT 0.5
32	Ceiling Sheet Panels	32-003	Y	Fair	1900	LT 0.5
39	Ceiling Sheet Panels	39-003	Y	Good	600	LT 0.5
			Total Approx. Footage		2632 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-5 Summary of Asbestos Survey Results for Concrete Expansion/Joint Material

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
351	Concrete Expansion/Joint	351-001	N	Good	40	LT 0.5
			Total Approx. Footage		40 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-6 Summary of Asbestos Survey Results for Linoleum

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
1A	Linoleum	1A-006	N	Good	50	LT 0.5
1A	Linoleum	1A-007	N	Fair	162	30.0
1B	Linoleum	1B-003	N	Good	1001	LT 0.5
2A	Linoleum	2A-005	N	Good	105	LT 0.5
2A	Linoleum	2A-006	N	Good	620	13.0
2A	Linoleum	2A-007	N	Fair	70	LT 0.5
2A	Linoleum	2A-009	N	Good	64	3.0
2B	Linoleum	2B-005	N	Fair	100	LT 0.5
2B	Linoleum	2B-006	N	Good	235	50.0
2B	Linoleum	2B-007	N	Good	260	LT 0.5
2B	Linoleum	2B-009	N	Good	9	LT 0.5
3	Linoleum	3-003	N	Good	324	LT 0.5
3	Linoleum	3-004	N	Good	600	25.0
3	Linoleum	3-005	N	Good	3	LT 0.5
4	Linoleum	4-001	N	Good	500	LT 0.5
4	Linoleum	4-002	N	Good	3000	LT 0.5
4	Linoleum	4-003	N	Good	130	20.0
4	Linoleum	4-005	N	Good	120	LT 0.5
4	Linoleum	4-006	N	Good	400	15.0
5	Linoleum	5-002	N	Good	120	24.0
5	Linoleum	5-003	N	Good	658	LT 0.5
5	Linoleum	5-006	N	Fair	208	24.0
6A	Linoleum	6A-003	N	Fair	430	20.0
6A	Linoleum	6A-004	N	Fair	36	LT 0.5
6B	Linoleum	6B-004	N	Good	310	LT 0.5
6B	Linoleum	6B-005	N	Good	130	20.0
6B	Linoleum	6B-006	N	Good	60	25.0
6B	Linoleum	6B-007	N	Good	110	LT 0.5
7A	Linoleum	7A-003	N	Good	140	20.0
7A	Linoleum	NS	N	Good	350	
7A	Linoleum	NS	N	Good	49	
7A	Linoleum	NS	N	Good	64	
7B	Linoleum	7B-004	N	Good	516	LT 0.5
7B	Linoleum	NS	N	Good	150	
8A	Linoleum	8A-007	N	Fair	1500	21.0
8A	Linoleum	8A-008	N	Good	525	LT 0.5
8B	Linoleum	8B-003	N	Good	110	LT 0.5
8B	Linoleum	8B-004	N	Good	150	25.0
8B	Linoleum	8B-005	N	Good	56	36.0
8B	Linoleum	8B-006	N	Good	30	30.0
9A	Linoleum	9A-004	N	Good	350	20.0
9A	Linoleum	NS	N	Good	80	
9B	Linoleum	NS	N	Good	364	
9B	Linoleum	NS	N	Good	168	
10A	Linoleum	NS	N	Good	370	
10A	Linoleum	NS	N	Good	80	
10B	Linoleum	10B-005	N	Poor	100	26.0
10B	Linoleum	10B-007	N	Fair	90	LT 0.5
11A	Linoleum	11A-004	N	Fair	513	LT 0.5
11A	Linoleum	NS	N	Good	114	
11B	Linoleum	11B-003	N	Good	350	LT 0.5
11B	Linoleum	11B-004	N	Good	150	LT 0.5
11B	Linoleum	11B-005	N	Good	90	LT 0.5
12A	Linoleum	NS	N	Good	330	
12B	Linoleum	12B-004	N	Good	77	25.0
12B	Linoleum	12B-005	N	Good	35	LT 0.5
12B	Linoleum	12B-006	N	Good	70	LT 0.5
12B	Linoleum	NS	N	Good	80	
13A	Linoleum	NS	N	Good	36	
13A	Linoleum	NS	N	Good	160	
13B	Linoleum	NS	N	Good	160	
13B	Linoleum	NS	N	Good	246	
13B	Linoleum	NS	N	Good	117	
13B	Linoleum	NS	N	Good	175	
14A	Linoleum	14A-003	N	Good	195	LT 0.5
14A	Linoleum	NS	N	Good	218	
14A	Linoleum	NS	N	Fair	40	
14A	Linoleum	NS	N	Good	115	
14B	Linoleum	14B-002	N	Good	400	LT 0.5
14B	Linoleum	14B-003	N	Good	200	LT 0.5
15A	Linoleum	15A-004	N	Good	258	20.0
15A	Linoleum	NS	N	Good	118	
15B	Linoleum	15B-003	N	Good	200	LT 0.5
15B	Linoleum	15B-004	N	Good	200	LT 0.5

Table 2.3-6 Summary of Asbestos Survey Results for Linoleum

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
15B	Linoleum	15B-005	N	Good	50	20.0
15B	Linoleum	15B-006	N	Good	30	LT 0.5
16A	Linoleum	16A-003	N	Good	100	LT 0.5
16A	Linoleum	16A-004	N	Good	130	20.0
16A	Linoleum	NS	N	Good	306	
16A	Linoleum	NS	N	Good	70	
16A	Linoleum	NS	N	Good	150	
16B	Linoleum	NS	N	Good	20	
16B	Linoleum	NS	N	Good	640	
16B	Linoleum	NS	N	Good	210	
16B	Linoleum	NS	N	Good	120	
17A	Linoleum	17A-004	N	Good	30	LT 0.5
17A	Linoleum	17A-005	N	Good	600	24.0
17A	Linoleum	17A-006	N	Good	120	LT 0.5
17A	Linoleum	17A-007	N	Good	60	2.0
17B	Linoleum	NS	N	Good	100	
17B	Linoleum	NS	N	Good	120	
17B	Linoleum	NS	N	Good	200	
17B	Linoleum	NS	N	Good	705	
18A	Linoleum	18A-004	N	Good	200	LT 0.5
18A	Linoleum	18A-005	N	Good	100	LT 0.5
18A	Linoleum	NS	N	Good	20	
18B	Linoleum	18B-003	N	Good	198	LT 0.5
18B	Linoleum	NS	N	Good	650	
18B	Linoleum	NS	N	Good	200	
18B	Linoleum	NS	N	Good	40	
18C	Linoleum	18C-003	N	Fair	150	20.0
18C	Linoleum	NS	N	Good	14	
19A	Linoleum	19A-002	N	Good	250	LT 0.5
19A	Linoleum	NS	N	Good	100	
19B	Linoleum	NS	N	Good	270	
19B	Linoleum	NS	N	Good	24	
19C	Linoleum	19C-003	N	Good	271	20.0
19C	Linoleum	NS	N	Good	25	
20	Linoleum	NS	N	Good	400	
21	Linoleum	NS	N	Good	397	
22	Linoleum	NS	N	Good	260	
23	Linoleum	23-003	N	Good	350	25.0
23	Linoleum	23-004	N	Good	30	30.0
24	Linoleum	24-003	N	Fair	160	18.0
24	Linoleum	NS	N	Good	356	
25	Linoleum	25-003	N	Good	200	LT 0.5
25	Linoleum	25-004	N	Good	400	15.0
31	Linoleum	31-003	N	Good	447	LT 0.5
48	Linoleum	48-002	N	Good	80	24.0
49	Linoleum	49-001	N	Good	120	24.0
49	Linoleum	49-008	N	Good	50	LT 0.5
49	Linoleum	49-010	N	Fair	170	20.0
49	Linoleum	NS	N	Good	40	
52	Linoleum	52-003	N	Good	1546	LT 0.5
52	Linoleum	52-004	N	Good	37	LT 0.5
53	Linoleum	53-003	N	Good	1300	LT 0.5
53	Linoleum	53-005	N	Good	25	LT 0.5
54	Linoleum	54-007	N	Fair	325	15.0
54	Linoleum	54-006	N	Poor	175	3.0
54	Linoleum	54-010	N	Fair	250	20.0
54	Linoleum	NS	N	Good	200	
55	Linoleum	55-001	N	Poor	1106	24.0
55	Linoleum	55-004	N	Fair	12	21.0
55	Linoleum	55-005	N	Fair	241	15.0
56A	Linoleum	56A-002	N	Good	617	25.0
56A	Linoleum	56A-003	N	Good	24	35.0
56A	Linoleum	56A-004	N	Good	121	20.0
56A	Linoleum	56A-005	N	Good	200	20.0
56B	Linoleum	56B-002	N	Good	600	LT 0.5
56B	Linoleum	56B-003	N	Good	42	LT 0.5
56B	Linoleum	NS	N	Good	109	
57A	Linoleum	57A-002	N	Good	400	24.0
57A	Linoleum	57A-004	N	Good	400	23.0
57A	Linoleum	57A-005	N	Good	30	LT 0.5
57B	Linoleum	57B-003	N	Fair	5000	LT 0.5
57B	Linoleum	NS	N	Good	42	
58A	Linoleum	NS	N	Good	49	
58A	Linoleum	NS	N	Good	140	
58B	Linoleum	58B-003	N	Good	130	24.0

Table 2.3-6 Summary of Asbestos Survey Results for Linoleum

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
59	Linoleum	59-001	N	Good	240	25.0
59	Linoleum	59-003	N	Good	135	LT 0.5
59	Linoleum	NS	N	Good	55	
60A	Linoleum	NS	N	Good	140	
60B	Linoleum	60B-002	N	Good	130	LT 0.5
60B	Linoleum	60B-006	N	Good	35	LT 0.5
61	Linoleum	NS	N	Good	186	
61	Linoleum	NS	N	Good	66	
62	Linoleum	62-004	N	Good	350	LT 0.5
63	Linoleum	63-003	N	Good	172	LT 0.5
63	Linoleum	63-004	N	Good	502	LT 0.5
63	Linoleum	63-005	N	Good	26	LT 0.5
64A	Linoleum	NS	N	Good	140	
64B	Linoleum	NS	N	Good	115	
64B	Linoleum	NS	N	Good	50	
64B	Linoleum	NS	N	Good	60	
65A	Linoleum	65A-002	N	Good	100	20.0
65B	Linoleum	65B-003	N	Good	767	LT 0.5
65B	Linoleum	NS	N	Good	130	
66A	Linoleum	NS	N	Good	150	
66B	Linoleum	66B-003	N	Poor	26	LT 0.5
66B	Linoleum	66B-004	N	Good	70	LT 0.5
66B	Linoleum	66B-005	N	Good	25	LT 0.5
				Total Approx. Footage	46228 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-7 Summary of Asbestos Survey Results for Roof Sealant

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
24	Roof Sealant	24-006	N	Good	1500	LT 0.5
			Total Approx. Footage		1500 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-8 Summary of Asbestos Survey Results for Roof Shingles

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
12A	Roof Shingles	12A-003	N	Good	2000	LT 0.5
24	Roof Shingles	24-005	N	Good	1500	LT 0.5
350	Roof Shingles	350-002	N	Good	2000	LT 0.5
350	Roof Shingles	350-003	N	Good	2000	LT 0.5
				Total Approx. Footage	7500 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-9 Summary of Asbestos Survey Results for Sheetrock

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage - Approx. Linear or Square ft	Analytical Result %
1A	Sheetrock	1A-005	Y	Good	700	LT 0.5
2A	Sheetrock	2A-008	Y	Fair	2	LT 0.5
2B	Sheetrock	NS	Y	Fair	300	
4	Sheetrock	NS	Y	Good	10000	
6B	Sheetrock	6B-002	Y	Good	350	LT 0.5
8A	Sheetrock	8A-006	Y	Fair	2000	LT 0.5
8B	Sheetrock	8B-001	Y	Poor	64	LT 0.5
9A	Sheetrock	NS	Y	Good	600	
10B	Sheetrock	NS	Y	Good	2500	
11B	Sheetrock	11B-002	Y	Good	600	LT 0.5
14B	Sheetrock	NS	Y	Good	2000	
15B	Sheetrock	15B-007	Y	Good	2000	LT 0.5
16A	Sheetrock	NS	Y	Good	190	
16B	Sheetrock	NS	Y	Good	125	
17A	Sheetrock	17A-003	Y	Good	420	LT 0.5
17B	Sheetrock	NS	Y	Good	240	
18A	Sheetrock	NS	Y	Good	400	
18B	Sheetrock	NS	Y	Good	60	
18C	Sheetrock	NS	Y	Good	50	
19A	Sheetrock	NS	Y	Good	1500	
24	Sheetrock	NS	Y	Good	80	
25	Sheetrock	NS	Y	Fair	100	
48	Sheetrock	NS	Y	Good	450	
49	Sheetrock	NS	Y	Good	1850	
52	Sheetrock	NS	Y	Good	777	
53	Sheetrock	53-002	Y	Good	300	LT 0.5
54	Sheetrock	54-002	Y	Fair	21	LT 0.5
54	Sheetrock	54-011	Y	Fair	225	LT 0.5
57A	Sheetrock	NS	Y	Good	60	
58B	Sheetrock	NS	Y	Good	500	
59	Sheetrock	NS	Y	Good	1300	
60B	Sheetrock	NS	Y	Good	500	
62	Sheetrock	62-003	Y	Good	110	LT 0.5
65A	Sheetrock	NS	Y	Good	305	
66B	Sheetrock	66B-002	Y	Fair	10000	LT 0.5
350	Sheetrock	350-001	Y	Good	1600	LT 0.5
351	Sheetrock	NS	Y	Good	50	
				Total Approx. Footage	42329 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-10 Summary of Asbestos Survey Results for Sheetrock/Joint Compound

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
2B	Sheetrock/Joint Compound	2B-008	Y	Good	10	LT 0.5
8A	Sheetrock/Joint Compound	8A-005	Y	Fair	10	LT 0.5
23	Sheetrock/Joint Compound	23-002	Y	Good	50	2.0
25	Sheetrock/Joint Compound	25-005	Y	Good	50	LT 0.5
39	Sheetrock/Joint Compound	39-001	Y	Fair	1800	LT 0.5
52	Sheetrock/Joint Compound	52-002	Y	Good	2	LT 0.5
54	Sheetrock/Joint Compound	NS	Y	Fair	100	
62	Sheetrock/Joint Compound	NS	Y	Good	100	
			Total Approx. Footage		2122 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-11 Summary of Asbestos Survey Results for Tar Paper

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
12A	Tar Paper	12A-004	N	Good	2000	LT 0.5
23	Tar Paper	23-005	N	Good	6	LT 0.5
24	Tar Paper	24-004	N	Good	1500	LT 0.5
50	Tar Paper	50-002	N	Fair	540	LT 0.5
51	Tar Paper	51-002	N	Good	500	LT 0.5
60B	Tar Paper	60B-004	N	Good	120	LT 0.5
69	Tar Paper	69-002	N	Good	620	LT 0.5
350	Tar Paper	350-004	N	Good	2000	LT 0.5
				Total Approx. Footage	7286 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-12 Summary of Asbestos Survey Results for Textured Plaster

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
2A	Textured Plaster	2A-004	Y	Fair	100	2.0
6B	Textured Plaster	NS	Y	Fair	30	
			Total Approx. Footage		130 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-13 Summary of Asbestos Survey Results for Transite Panels

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
10B	Transite Panels	10B-008	N	Poor	10	2.0
48	Transite Panels	48-001	N	Good	3000	45.0
50	Transite Panels	50-001	N	Fair	540	55.0
51	Transite Panels	51-001	N	Fair	500	45.0
52	Transite Panels	52-001	N	Good	200	60.0
54	Transite Panels	54-003	N	Fair	500	15.0
57A	Transite Panels	57A-003	N	Good	700	60.0
58B	Transite Panels	58B-004	N	Good	120	70.0
60B	Transite Panels	60B-003	N	Good	120	65.0
61	Transite Panels	61-001	N	Good	104	65.0
65B	Transite Panels	NS	N	Good	70	
69	Transite Panels	69-001	N	Fair	620	50.0
				Total Approx. Footage	6484 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-14 Summary of Asbestos Survey Results for White Powder (unknown)

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
49	White Powder (unknown)	49-006	Y	Fair	30	LT 0.5
			Total Approx. Footage		30 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-15 Summary of Asbestos Survey Results for Wire Wrap

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
1B	Wire Wrap	NS	N	Fair	105	
2A	Wire Wrap	NS	N	Good	64	
2B	Wire Wrap	NS	N	Good	30	
3	Wire Wrap	3-001	N	Good	175	LT 0.5
4	Wire Wrap	NS	N	Good	100	
6A	Wire Wrap	NS	N	Good	140	
6B	Wire Wrap	NS	N	Fair	20	
7A	Wire Wrap	NS	N	Good	140	
7B	Wire Wrap	NS	N	Good	60	
8A	Wire Wrap	NS	N	Good	100	
8B	Wire Wrap	NS	N	Fair	20	
9A	Wire Wrap	NS	N	Good	180	
9B	Wire Wrap	NS	N	Good	48	
10A	Wire Wrap	NS	N	Fair	125	
10B	Wire Wrap	10B-001	N	Fair	229	LT 0.5
11A	Wire Wrap	NS	N	Fair	86	
11B	Wire Wrap	NS	N	Good	100	
12A	Wire Wrap	NS	N	Good	115	
12B	Wire Wrap	NS	N	Good	135	
13A	Wire Wrap	NS	N	Fair	100	
13B	Wire Wrap	NS	N	Good	61	
14A	Wire Wrap	NS	N	Good	85	
14B	Wire Wrap	NS	N	Good	200	
15A	Wire Wrap	NS	N	Good	98	
15B	Wire Wrap	NS	N	Good	100	
16A	Wire Wrap	NS	N	Good	1900	
16B	Wire Wrap	NS	N	Good	70	
17A	Wire Wrap	NS	N	Good	150	
17B	Wire Wrap	NS	N	Good	120	
18A	Wire Wrap	18A-003	N	Good	100	LT 0.5
18B	Wire Wrap	NS	N	Good	6	
18C	Wire Wrap	NS	N	Good	30	
19A	Wire Wrap	NS	N	Fair	100	
19B	Wire Wrap	NS	N	Good	40	
19C	Wire Wrap	NS	N	Good	300	
20	Wire Wrap	NS	N	Good	75	
21	Wire Wrap	NS	N	Good	78	
22	Wire Wrap	NS	N	Good	30	
23	Wire Wrap	NS	N	Fair	200	
25	Wire Wrap	NS	N	Fair	90	
31	Wire Wrap	NS	N	Good	50	
32	Wire Wrap	NS	N	Good	50	
48	Wire Wrap	NS	N	Good	200	
51	Wire Wrap	NS	N	Fair	40	
52	Wire Wrap	NS	N	Good	56	
54	Wire Wrap	NS	N	Fair	400	
56B	Wire Wrap	NS	N	Good	38	
57A	Wire Wrap	NS	N	Good	95	
57B	Wire Wrap	NS	N	Good	12	
58A	Wire Wrap	NS	N	Good	105	
58B	Wire Wrap	NS	N	Good	40	
60A	Wire Wrap	NS	N	Good	20	
60B	Wire Wrap	NS	N	Good	124	
61	Wire Wrap	NS	N	Fair	60	
62	Wire Wrap	NS	N	Good	28	
63	Wire Wrap	NS	N	Good	18	
64A	Wire Wrap	NS	N	Good	65	
64B	Wire Wrap	64B-003	N	Fair	15	LT 0.5
65A	Wire Wrap	NS	N	Good	50	
65B	Wire Wrap	NS	N	Good	50	
66A	Wire Wrap	NS	N	Good	40	
350	Wire Wrap	NS	N	Good	300	
			Total Approx. Footage		7761 ft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-16 Summary of Asbestos Survey Results for 9x9 Floor Tiles

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
5	9x9 Floor Tiles	5-004	N	Fair	72	3.0
31	9x9 Floor Tiles	31-004	N	Fair	40	2.0
37	9x9 Floor Tiles	37-001	N	Good	400	LT 0.5
48	9x9 Floor Tiles	48-004	N	Good	1650	3.0
49	9x9 Floor Tiles	NS	N	Good	22	
54	9x9 Floor Tiles	54-001	N	Poor	130	LT 0.5
54	9x9 Floor Tiles	NS	N	Fair	420	
55	9x9 Floor Tiles	55-002	N	Fair	1106	8.0
60B	9x9 Floor Tiles	60B-005	N	Good	240	LT 0.5
63	9x9 Floor Tiles	63-002	N	Fair	100	7.0
64A	9x9 Floor Tiles	64A-004	N	Good	60	LT 0.5
				Total Approx. Footage	4240 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-17 Summary of Asbestos Survey Results for 12x12 Floor Tiles

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
31	12x12 Floor Tiles	31-002	N	Fair	295	LT 0.5
32	12x12 Floor Tiles	NS	N	Good	2256	
39	12x12 Floor Tiles	39-002	N	Good	180	2.0
48	12x12 Floor Tiles	48-003	N	Good	370	LT 0.5
49	12x12 Floor Tiles	49-005	N	Fair	296	LT 0.5
49	12x12 Floor Tiles	49-011	N	Fair	110	LT 0.5
54	12x12 Floor Tiles	NS	N	Fair	140	
58A	12x12 Floor Tiles	58A-003	N	Good	120	LT 0.5
58B	12x12 Floor Tiles	58B-002	N	Good	240	LT 0.5
64B	12x12 Floor Tiles	64B-004	N	Good	60	LT 0.5
				Total Approx. Footage	4067 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-18 Summary of Asbestos Survey Results for 12x12 Ceiling Tiles

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
9A	12x12 Ceiling Tiles	9A-005	Y	Good	160	LT 0.5
49	12x12 Ceiling Tiles	49-004	Y	Fair	572	LT 0.5
54	12x12 Ceiling Tiles	NS	Y	Good	2200	
				Total Approx. Footage	2932 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-19 Summary of Asbestos Survey Results for 2x4 Ceiling Panels

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
1A	2x4 Ceiling Panels	1A-003	Y	Fair	36	LT 0.5
5	2x4 Ceiling Panels	5-001	Y	Fair	80	LT 0.5
5	2x4 Ceiling Panels	5-005	Y	Fair	577	LT 0.5
10A	2x4 Ceiling Panels	NS	Y	Fair	100	
11A	2x4 Ceiling Panels	11A-001	Y	Fair	12	LT 0.5
18A	2x4 Ceiling Panels	NS	Y	Good	8	
18C	2x4 Ceiling Panels	18C-004	Y	Fair	40	LT 0.5
18C	2x4 Ceiling Panels	18C-005	Y	Fair	16	LT 0.5
31	2x4 Ceiling Panels	31-001	Y	Fair	3124	LT 0.5
49	2x4 Ceiling Panels	49-002	Y	Fair	24	LT 0.5
54	2x4 Ceiling Panels	54-005	Y	Fair	1700	LT 0.5
66A	2x4 Ceiling Panels	66A-002	Y	Good	149	LT 0.5
				Total Approx. Footage	5866 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

Table 2.3-20 Summary of Asbestos Survey Results for 2x2 Ceiling Panels

Building Number	Material Description	Sample ID	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square ft	Analytical Result %
49	2x2 Ceiling Panels	49-009	Y	Fair	878	LT 0.5
53	2x2 Ceiling Panels	53-004	Y	Good	30	LT 0.5
			Total Approx. Footage		908 sqft	

D - Duplicate Sample
- - No Data
NS - Not Sampled
LT - Less Than
All Level 1 Data

3.0 ASSESSMENT OF SURVEY RESULTS BY BUILDING

Fifty-one structures were surveyed for asbestos at Fort Douglas. A table was constructed for each building. These tables list a description for each homogenous suspect ACM found in the building and are subgrouped into three parts, friable asbestos materials, nonfriable asbestos materials, and materials that contain no asbestos. As the subgroup names indicate, each material is grouped based on friability and asbestos content. However, some exceptions were noted, in these cases the most conservative approach was used. This approach assumes that if at least one sample of a friable homogeneous material tested positive for asbestos, all locations of that homogeneous material should be assumed to contain asbestos even if another sample of the material tested negative. This conservative approach addresses the possibility that asbestos may not be uniformly distributed in friable materials. The friable homogeneous materials that tested positive for asbestos are: air cell insulation, joint compound, MAG-block insulation, and paper pipe wrap insulation. In the case of nonfriable materials, three types sampled in this survey tested both positive and negative for asbestos. These materials are linoleum, 9x9 floor tiles, and 12x12 floor tiles. Several different types of linoleum and floor tile are located throughout the surveyed area. All of these have been sampled at least once. Photographs of each linoleum and type floor tile type (including analytical results) are included with this report (Appendix C). An extensive distribution of each type of floor tile and/or linoleum exists in the excessed area. Each location of a linoleum or floor tile type was not sampled; the asbestos content can be obtained by utilizing the photographs in Appendix C. Unless a linoleum or floor tile consistently tested negative for asbestos, it should be assumed that all locations of the nonfriable material contain asbestos.

Each suspect material in each building is classified as TSI, SM, or miscellaneous material and the extent is denoted by functional space location and approximate footage. (Functional space locations are indicated on floor plans contained in Appendix B). Other properties listed are friability and physical condition. The physical condition of each material is represented by a damage risk number; the potential for disturbance, is represented by an exposure number. The tables list the highest risk and exposure number obtained for friable suspect ACM present in each building. All samples taken from the building are noted along with their functional space location and analytical results. At least one sample was collected from each suspect homogenous ACM located in the excessed area. A sample tested positive when asbestos was found at greater than 1.0 percent.

3.1 BUILDING 1A

Building 1A which is one-half of a duplex constructed in 1910, is currently used as quarters for non-commissioned officers (NCO). A total of seven different types of possible ACM were identified, five of which were friable and two nonfriable. A sample was collected from each (Table 3.1-1). Two samples of friable materials, air-cell insulation and joint compound, tested positive for asbestos. Both were sampled in the basement of the building. Linoleum, sampled on the first floor of the building, also tested positive for asbestos.

3.2 BUILDING 1B

Building 1B, one-half of a duplex connected to Building 1A, is used for the same purpose. A total of five different types of possible ACM were identified; three were friable and two were nonfriable (Table 3.2-1). Two of the friable materials and one nonfriable material were sampled. Only the friable materials, air-cell insulation and joint compound, tested positive for asbestos. Both were sampled in the basement of the building.

3.3 BUILDING 2A

Building 2A, one-half of a duplex constructed in 1884, is currently used as NCO's residence. A total of 11 different types of possible ACM were identified at this site; six were friable and five were nonfriable (Table 3.3-1). Five of the friable materials and four of the nonfriable materials were sampled. Three types of friable materials, air-cell insulation, joint compound, and textured plaster, tested positive for asbestos. All three were sampled in the basement of the building. Samples of two types of nonfriable linoleum tested positive for asbestos. These were sampled on the first and second floors of the building.

3.4 BUILDING 2B

Building 2B, one-half of a duplex connected to Building 2A, is used for the same purpose. Nine types of possible ACM, four friable and five nonfriable, were found in the building (Table 3.4-1). Five samples of friable materials were taken. Air-cell insulation, sampled in the basement, was the only friable material that tested positive for asbestos. Three of the nonfriable materials were also sampled. Only one linoleum sample from the first floor, tested positive for asbestos.

3.5 BUILDING 3

Building 3 is an officers quarters built in 1931. Five types of possible ACM, one friable and four nonfriable, were found at the site (Table 3.5-1). A sample was collected from each. The only friable material, air-cell insulation, tested positive for asbestos. It was sampled in the basement of the building. Linoleum, a nonfriable material sampled on the second floor, also tested positive for asbestos.

3.6 BUILDING 4

Building 4, constructed in 1875, is used as administrative offices. Eleven types of possible ACM were identified, four friable and seven nonfriable (Table 3.6-1). Of the two types of friable ACM sampled, one tested positive for asbestos. This material, air-cell insulation, was sampled in the basement of the building. Six of the nonfriable materials were also sampled. Two samples of linoleum flooring from the first floor, tested positive for asbestos.

3.7 BUILDING 5

Building 5, constructed on 1904, is used as administrative offices. Seven types of possible ACM were identified at this site, three friable and four nonfriable (Table 3.7-1). Samples of two of the friable materials tested negative for asbestos. Three of the four samples of nonfriable ACM tested positive for asbestos. Two types of linoleum sampled on the first floor and 9x9 floor tile sampled on the second floor are the nonfriable materials that contain asbestos.

3.8 BUILDING 6A

Building 6A, one-half of a duplex constructed in 1875, is currently used as officers' quarters. Six types of possible ACM, three friable and three nonfriable, were identified in the building (Table 3.8-1). Two types of friable material were sampled: air-cell insulation and joint compound. Both tested positive for asbestos and were sampled in the basement of the building. Of the two nonfriable materials sampled, only the linoleum from the first floor, tested positive for asbestos.

3.9 BUILDING 6B

Building 6B, one-half of a duplex connected to Building 6A, also serves as officers' quarters used for the same purpose. Ten types of possible ACM, five friable and five nonfriable, were identified at the site (Table 3.9-1). Samples were collected from three of the friable materials and four of the nonfriable materials. One type of friable material, air-cell insulation, tested positive for asbestos. This material was sampled in the basement of the building. Of the four types of nonfriable materials sampled, two types of linoleum on the first floor tested positive for asbestos.

3.10 BUILDING 7A

Building 7A, one-half of a duplex constructed in 1875, is used as housing for officers. Seven types of possible ACM, two friable and five nonfriable, were identified in the building (Table 3.10-1). The two friable materials, air-cell insulation and joint compound, sampled in the basement of the building tested positive for asbestos. One sample of nonfriable material, linoleum located on the first floor, tested positive for asbestos.

3.11 BUILDING 7B

Building 7B, one-half of a duplex connected to Building 7A, is used for the same purpose. Seven types of possible ACM, four friable and three nonfriable, were found at the site (Table 3.11-1). All three of the friable materials, air-cell insulation, joint compound and MAG-block insulation, sampled in the basement of the building tested positive for asbestos. The one nonfriable material sampled tested negative for asbestos.

3.12 BUILDING 8A

Building 8A, one-half of a duplex constructed in 1875, was used as officer's quarters and is currently vacant. Ten types of possible ACM, seven friable and three nonfriable, were found at the site (Table 3.12-1). Six of the friable materials and two of the nonfriable materials were sampled. Three of the friable materials, air-cell insulation, joint compound, and MAG-block insulation, sampled in the basement of the building, tested positive for asbestos. One type of nonfriable material, linoleum sampled on the first floor, also tested positive for asbestos.

3.13 BUILDING 8B

Building 8B, one-half of a duplex connected to Building 8A, also serves as officers' quarters. Ten types of possible ACM, five friable and five nonfriable, were found at the site (Table 3.13-1). All of the friable materials were sampled, but only air-cell insulation tested positive for asbestos. This material was sampled in the basement of the building. Of the four nonfriable materials sampled, three different types of linoleum on the first floor tested positive for asbestos.

3.14 BUILDING 9A

Building 9A, one-half of a duplex constructed in 1875, is used as officers' quarters. Ten types of ACM were found at the site; six were friable and four were nonfriable (Table 3.14-1). Four of the friable materials and one nonfriable material were sampled. Of the four friable materials sampled, only the MAG-block insulation in the basement tested positive for asbestos.

3.15 BUILDING 9B

Building 9B, one-half of a duplex connected to Building 9A, is officers' quarters. Six types of possible ACM were found at the site; three were friable and three were nonfriable (Table 3.15-1). Two types of friable materials, air-cell insulation and joint compound materials sampled in the basement, tested positive for asbestos.

3.16 BUILDING 10A

Building 10A, one-half of a duplex constructed in 1875, is used as officers' quarters. Seven types of suspect ACM were found in the building, four friable and three nonfriable (Table 3.16-1). The only samples of friable materials, air-cell insulation and joint compound from the basement, tested positive for asbestos.

3.17 BUILDING 10B

Building 10B, one-half of a duplex connected to Building 10A, was used as officers' quarters and is currently vacant. Ten types of suspect ACM were found in the building, five friable and five nonfriable (Table 3.17-1). Samples of three of the friable and all five nonfriable materials were taken. Two of the friable materials sampled, air-cell insulation and MAG-block insulation in the basement, tested positive for asbestos. Transite panels and linoleum, both sampled on the first floor, are the only types of nonfriable material that tested positive for asbestos.

3.18 BUILDING 11A

Building 11A, constructed in 1875, is one-half of a duplex that was used as officers' quarters and is currently vacant. Seven types of suspect ACM were identified in the building, four friable and three nonfriable (Table 3.18-1). Of the three friable and one nonfriable materials sampled, air-cell insulation and joint compound from the basement were the only materials that tested positive for asbestos.

3.19 BUILDING 11B

Building 11B, one-half of a duplex connected to Building 11A, is offcers' quarters used for the same purpose. Four types of friable and five types of nonfriable suspcet ACM were located in the building (Table 3.19-1). Two of the friable and three of the nonfriable materials were sampled. Only one sample of friable MAG-block insulation located in the basement tested positive for asbestos.

3.20 BUILDING 12A

Building 12A, one-half of a duplex constructed in 1875, was used as officers' quarters and is currently vacant. Three types of friable and four types of nonfriable suspect ACM were identified in the building (Table 3.20-1). Of the two friable and two nonfriable materials sampled, only the friable materials, air-cell insulation and joint compound from the basement, tested positive for asbestos.

3.21 BUILDING 12B

Building 12B, one-half of a duplex connected to Building 12A, was used as officers' quarters and is currently vacant. Four types of friable and five types of nonfriable suspect ACM were found in the building (Table 3.21-1). Of the three friable and three nonfriable materials sampled, the friable materials air-cell insulation and joint compound from the basement tested positive for asbestos. The only nonfriable material that tested positive for asbestos was linoleum, sampled on the first floor.

3.22 BUILDING 13A

Building 13A, one-half of a duplex constructed in 1875, was used as officers' quarters and is currently vacant. Three types of friable and three types of nonfriable suspect ACM were identified

in the building (Table 3.22-1). Two of the friable materials, air-cell insulation and joint compound sampled in the basement, tested positive for asbestos. No samples of the nonfriable materials were taken.

3.23 BUILDING 13B

Building 13B, one-half of a duplex connected to Building 13A, was used as officers' quarters and is currently vacant. Three types of friable and five types of nonfriable suspect ACM were found at the site (Table 3.23-1). The only sample taken in the building was of friable joint compound material from the basement.

3.24 BUILDING 14A

Building 14A, one-half of a duplex constructed in 1875, is used as officers' quarters. Three types of friable and five types of nonfriable suspect ACM were found in the building (Table 3.24-1). Two of the friable materials, air-cell insulation and joint compound sampled in the basement, tested positive for asbestos. The only nonfriable material sampled tested negative for asbestos.

3.25 BUILDING 14B

Building 14B, one-half of a duplex connected to Building 14A, is used as officers' quarters. Three types of friable and four types of nonfriable suspect ACM were identified in the building (Table 3.25-1). One of the friable materials, air-cell insulation in the basement, was sampled and tested positive for asbestos. Two of the nonfriable materials were sampled and neither tested positive for asbestos.

3.26 BUILDING 15A

Building 15A, one-half of a duplex constructed in 1875, was used as officers' quarters and is currently vacant. Seven types of suspect ACM were identified at the site, three friable materials and four nonfriable materials (Table 3.26-1). Samples of two of the friable, air-cell insulation and joint compound both sampled in the basement, and two of the nonfriable materials were taken. The two friable materials tested positive for asbestos. One of the samples of nonfriable material, linoleum on the first floor, tested positive for asbestos.

3.27 BUILDING 15B

Building 15B, one-half of a duplex connected to Building 15A, is used as officers' quarters. Four types of friable and six types of nonfriable suspect ACM were identified in the building (Table 3.27-1). Of the three friable materials, air-cell insulation and joint compound sampled in the basement, two tested positive for asbestos. Only one of the nonfriable materials, linoleum sampled on the second floor, tested positive for asbestos.

3.28 BUILDING 16A

Building 16A, one-half of a duplex that was constructed in 1884, is used as NCO housing. Three types of friable and six types of nonfriable suspect ACM were identified at the site (Table 3.28-1). Two of the friable materials, air-cell insulation and joint compound sampled in the basement, tested positive for asbestos. One of the nonfriable linoleum floorings on the first floor, tested positive for asbestos.

3.29 BUILDING 16B

Building 16B, one-half of a duplex connected to Building 16A, is used as NCO housing. Four types of friable and five types of nonfriable suspect ACM were found in the building (Table 3.29-1). Two of the friable materials, air-cell insulation and joint compound sampled in the basement, tested positive for asbestos. No nonfriable materials were sampled at this site.

3.30 BUILDING 17A

Building 17A, one-half of a duplex constructed in 1884, is used as NCO housing. Nine types of suspect ACM, three friable and six nonfriable, were identified in the building (Table 3.30-1). Two of the three friable materials, air-cell insulation and joint compound in the basement, and four of the nonfriable materials were sampled. Two of the nonfriable materials, linoleum floorings taken on the first and second floors of the building, tested positive for asbestos.

3.31 BUILDING 17B

Building 17B, one-half of a duplex connected to Building 17A, is used for NCO housing. Four types of friable and five types of nonfriable suspect ACM were found at the building (Table 3.31-1). Two

of the friable materials, air-cell insulation and joint compound in the basement tested positive for asbestos. The nonfriable materials were not sampled.

3.32 BUILDING 18A

Building 18A, one-third of a triplex constructed in 1875, is used as officers' quarters. Five types of friable and five types of nonfriable suspect ACM were identified at the site (Table 3.32-1). Two of the friable materials, air-cell insulation and MAG-block insulation in the basement, and three of the nonfriable materials were sampled. All of the nonfriable materials sampled tested negative for asbestos.

3.33 BUILDING 18B

Building 18B, one-third of a triplex constructed in 1875, is used as officers' quarters. Three types of friable and five types of nonfriable suspect ACM were identified at the site (Table 3.33-1). Two of the friable materials, air-cell insulation and joint compound in the basement, and one of the nonfriable materials were sampled. The two friable materials tested positive for asbestos. The only nonfriable material sampled tested negative for asbestos.

3.34 BUILDING 18C

Building 18C, one-third of a triplex constructed in 1875, is used as officers' quarters. Five types of friable and three types of nonfriable suspect ACM were identified (Table 3.34-1). Samples were taken of four of the friable materials and one of the nonfriable materials. Only one of the four friable materials, air-cell insulation sampled in the basement and first floor areas, tested positive for asbestos. The only nonfriable material sampled, linoleum on the first floor, tested positive for asbestos.

3.35 BUILDING 19A

Building 19A, one-third of a triplex constructed in 1875, was used as officers' quarters and is currently vacant. Four types of friable and four types of nonfriable suspect ACM were identified in the building (Table 3.35-1). Only the one friable material, air-cell insulation, sampled in the basement, tested positive for asbestos. The nonfriable material tested negative for asbestos.

3.36 BUILDING 19B

Building 19B, one-third of a triplex constructed in 1875, was used as officers' quarters and is currently vacant. Three types of friable and three types of nonfriable suspect ACM were identified (Table 3.36-1). Two of the friable materials, air-cell insulation and MAG-block insulation sampled in the basement, tested positive for asbestos. No nonfriable materials were sampled at this site.

3.37 BUILDING 19C

Building 19C, one-third of a triplex constructed in 1875, was used as officers' quarters and is currently vacant. Two types of friable and three types of nonfriable suspect ACM were found (Table 3.37-1). The friable materials, joint compound and air-cell insulation sampled in the basement; and the nonfriable material, linoleum sampled on the first floor, all tested positive for asbestos.

3.38 BUILDING 20

Building 20, constructed in 1875, is used as officers' quarters. Two types of friable and two types of nonfriable suspect ACM were found in the building (Table 3.38-1). Samples taken of only the two friable materials, air-cell insulation and joint compound in the basement, tested positive for asbestos.

3.39 BUILDING 21

Building 21, constructed in 1931 and is used as officers' quarters. Two types of friable and two types of nonfriable suspect ACM were found in the building (Table 3.39-1). Samples taken of only the two friable materials, air-cell insulation and MAG-block insulation in the basement, tested positive for asbestos.

3.40 BUILDING 22

Building 22, constructed in 1931, is used as officers' quarters. Four types of friable and two types of nonfriable suspect ACM were found in the building (Table 3.40-1). Only one of the two samples of friable material, joint compound taken in the basement, tested positive for asbestos.

3.41 BUILDING 23

Building 23, constructed in 1931, is used as officers' quarters. Five types of friable and four types of nonfriable suspect ACM were identified at the site (Table 3.41-1). Three of the friable and two of the nonfriable materials were sampled. Two of the three friable materials sampled, Sheetrock/joint compound and air-cell insulation in the basement, tested positive for asbestos. Two types of nonfriable materials, linoleum taken on the first and second floors, tested positive for asbestos.

3.42 BUILDING 24

Building 24, constructed in 1931, was used as officers' quarters and is currently vacant. Four types of friable and five types of nonfriable suspect ACM were identified in the building (Table 3.42-1). Two of the friable materials and four of the nonfriable materials were sampled. The two friable materials, air-cell insulation and joint compound in the basement, tested positive for asbestos. One of the nonfriable materials, linoleum taken on the first and second floors, tested positive for asbestos.

3.43 BUILDING 25

Building 25, constructed in 1931, was used as officers' housing and is currently vacant. Five types of friable and four types of nonfriable suspect ACM were identified in the building (Table 3.43-1). Three of the friable materials and two of the nonfriable materials were sampled. Two of the friable materials, air-cell insulation and joint compound in the basement, tested positive for asbestos. Linoleum, a nonfriable material sampled on the first floor, tested positive for asbestos.

3.44 BUILDING 31

Building 31, constructed in 1876, is used as administrative offices. One type of friable and four types of nonfriable suspect ACM were identified (Table 3.44-1). Samples were taken of the one friable and three of the nonfriable materials. Only one nonfriable material, 9x9 floor tiles on the first floor, tested positive for asbestos.

3.45 BUILDING 32

Building 32, constructed in 1876, is used as a museum. Five types of friable and two types of nonfriable suspect ACM were found at the site (Table 3.45-1). Samples were taken of three of the friable materials. Only one material, paper pipe wrap in the basement of the building, tested positive for asbestos.

3.46 BUILDING 37

Building 37, constructed in 1918, is used as office space. The only type of suspect ACM identified was nonfriable 9x9 floor tile (Table 3.46). All samples of this material tested negative for asbestos.

3.47 BUILDING 39

Building 39, constructed in 1876, is used as a latrine. Two types of friable and two types of nonfriable suspect ACM were identified at the site (Table 3.47-1). Samples taken of the two types of friable material tested negative for asbestos. Only one friable material, 12x12 floor tiles sampled on the first floor, tested positive for asbestos.

3.48 BUILDING 41

Building 41, constructed in 1954, was formerly the gas valve building. No ACM was found at this site and no samples were taken.

3.49 BUILDING 48

Building 48, constructed in 1884, is the chapel for the post. Four types of friable and seven types of nonfriable suspect ACM were found at the building (Table 3.49-1). Samples were taken from four of the nonfriable materials and one of the friable materials. Only the one friable material, paper pipe wrap sampled on the first floor, tested positive for asbestos. Three of the nonfriable materials, transite panels from the exterior of the building, linoleum, and 9x9 floor tiles on the first floor, tested positive for asbestos.

3.50 BUILDING 49

Building 49, constructed in 1876, is used as an officers club. Eight types of friable and six types of nonfriable suspect ACM were identified at the site (Table 3.50-1). Seven of the friable and four of the nonfriable materials were sampled. Two of the friable materials, soundproofing on the second floor and air-cell insulation in the basement, tested positive for asbestos. Two of the nonfriable materials and two types of linoleum sampled on the first floor also tested positive for asbestos.

3.51 BUILDING 50

Building 50, constructed in 1932, is a detached garage. Two types of nonfriable suspect ACM were identified and sampled (Table 3.51-1). No friable ACM was found. Only the sample of the transite panels on the exterior of the building tested positive for asbestos.

3.52 BUILDING 51

Building 51, constructed in 1931, is a detached garage. Three types of nonfriable suspect ACM were identified (Table 3.52-1). No friable ACM was found. Samples were taken from two of the types of nonfriable materials. Only the sample from the transite panels, taken from the exterior of the building, tested positive for asbestos.

3.53 BUILDING 52

Building 52, constructed in 1900, was used for NCO housing and is currently vacant. Two types of friable and five types of nonfriable suspect ACM were identified at the site (Table 3.53-1). Only the nonfriable transite panels from the first floor tested positive for asbestos.

3.54 BUILDING 53

Building 53, constructed in 1910, is used for NCO housing. Four types of friable and three types of nonfriable suspect ACM were identified at the site (Table 3.54-1). Three of the friable and two of the nonfriable materials were sampled. Only one of the three friable materials, paper pipe wrap in the basement, tested positive for asbestos.

3.55 BUILDING 54

Building 54, constructed in 1933 and is used as a NCO club. Eight types of friable and twelve types of nonfriable suspect ACM were identified at the building (Table 3.55-1). Six samples of friable and five samples of nonfriable materials were taken. Two of the friable materials sampled, soundproofing, on the first floor, and air-cell insulation in the basement, tested positive for asbestos. Of the four nonfriable materials sampled, transite panels and linoleum on the first floor tested positive for asbestos.

3.56 BUILDING 55

Building 55, constructed in 1874, is used as administrative offices. One type of friable and four type of nonfriable possible ACM were identified and sampled (Table 3.56-1). The friable material, soundproofing, the nonfriable 9x9 floor tiles, and three types of linoleum all on the first floor, tested positive for asbestos.

3.57 BUILDING 56A

Building 56A, one-half of a duplex constructed in 1916, was used as NCO housing and is currently vacant. One type of friable and four types of nonfriable suspect ACM were identified and sampled at the site (Table 3.57-1). The friable material, paper pipe wrap sampled in the basement, and the nonfriable samples of linoleum from the first floor, tested positive for asbestos.

3.58 BUILDING 56B

Building 56B, one-half of a duplex connected to Building 56A, is used as NCO housing. One type of friable and four types of nonfriable suspect ACM were identified at the site (Table 3.58-1). The one friable material, paper pipe wrap sampled from the basement, tested positive for asbestos. Two of the nonfriable materials were also sampled and tested negative for asbestos.

3.59 BUILDING 57A

Building 57A, one-half of a duplex constructed in 1916, is used as NCO housing. Three types of friable and six types of nonfriable suspect ACM were identified at the site (Table 3.59-1). One of the friable materials, paper pipe wrap sampled in the basement, tested positive for asbestos. Three

of the four nonfriable materials, two types of linoleum taken from the first and second floors and transite panels taken from the exterior of the building, tested positive for asbestos.

3.60 BUILDING 57B

Building 57B, one-half of a duplex connected to Building 57A, was used for the same purpose and is currently vacant. Two types of friable and three types of nonfriable suspect ACM were identified in the building (Table 3.60-1). Of the two friable materials and one nonfriable materials sampled, only paper pipe wrap in the basement tested positive for asbestos.

3.61 BUILDING 58A

Building 58A, one-half of a duplex constructed in 1930, was used as NCO housing and is currently vacant. Three types of friable and four types of nonfriable suspect ACM were identified at the building (Table 3.61-1). Of the two friable and one nonfriable materials sampled, only MAG-block insulation in the basement tested positive for asbestos.

3.62 BUILDING 58B

Building 58B, one-half of a duplex connected to Building 58A, was used for NCO housing and is currently vacant. Four types of friable and five types of nonfriable suspect ACM were identified (Table 3.62-1). Samples were taken from one of the friable and three of the nonfriable materials. The friable material, MAG-block insulation in the basement, tested positive for asbestos. Samples from two of the three nonfriable materials on the first floor, transite panels from the exterior of the building and linoleum, also tested positive for asbestos.

3.63 BUILDING 59

Building 59, used as NCO housing, was constructed in 1917 and is currently vacant. Two types of friable and four types of nonfriable suspect ACM were identified at the site (Table 3.63-1). Samples taken from one of the friable linoleum located on the first floor and three of the nonfriable materials tested positive for asbestos.

3.64 BUILDING 60A

Building 60A, one-half of a duplex constructed in 1930, is used as NCO housing. Two types of friable and two types of nonfriable suspect ACM were identified at the site (Table 3.64-1). Only one sample, MAG-block insulation taken from the basement, tested positive for asbestos.

3.65 BUILDING 60B

Building 60B, one-half of a duplex connected to Building 60A, is used as NCO housing. Four types of friable and seven types of nonfriable suspect ACM were identified at the site (Table 3.65-1). Samples were taken from one of the friable and five of the nonfriable materials. Only two samples tested positive for asbestos, the friable air-cell insulation material located in the basement, and a nonfriable transite panel located on the exterior of the building.

3.66 BUILDING 61

Building 61, constructed in 1891, is used as NCO housing. Four types of nonfriable suspect ACM were identified at this site, one of which was sampled (Table 3.66-1). The sample was taken from transite panels located on the exterior of the building and tested positive for asbestos.

3.67 BUILDING 62

Building 62, constructed in 1891, was used as NCO housing and is currently vacant. Four types of friable and two types of nonfriable suspect ACM were identified at this site (Table 3.67-1). Two of the friable and two of the nonfriable materials were sampled and all tested negative for asbestos.

3.68 BUILDING 63

Building 63, constructed in 1891, was used as NCO housing and is currently vacant. One type of friable and five types of nonfriable possible ACM were found at this site (Table 3.68-1). The friable material and four of the nonfriable materials were sampled. Only one material, nonfriable 9x9 floor tile, sampled from the basement tested positive for asbestos.

3.69 BUILDING 64A

Building 64A, one-half of a duplex constructed in 1930, is used as NCO housing. Three types of friable and three types of nonfriable suspect ACM were found in the building (Table 3.69-1). All three of the friable materials and one of the nonfriable materials were sampled. Only one sample, friable air-cell insulation material located in the basement of the building, tested positive for asbestos.

3.70 BUILDING 64B

Building 64B, one-half of a duplex connected to Building 64A, was used as NCO housing and is currently vacant. Three types of friable and five types of nonfriable suspect ACM were found at the site (Table 3.70-1). Samples were taken from two of the friable materials and two of the nonfriable materials. Only the two friable materials, air-cell insulation and joint compound from the basement, tested positive for asbestos.

3.71 BUILDING 65A

Building 65A, one-half of a duplex constructed in 1930, is used as NCO housing. Three types of friable and three types of nonfriable suspect ACM were found at the building (Table 3.71-1). Two of the friable and one of the nonfriable materials were sampled. One of the friable materials, air-cell insulation sampled in the basement and one of the nonfriable materials, linoleum sampled from the first floor, tested positive for asbestos.

3.72 BUILDING 65B

Building 65B, one-half of a duplex connected to Building 65A, is used for NCO housing. Four types of friable and five types of nonfriable suspect ACM were identified at the building (Table 3.72-1). Of the two friable materials, air-cell insulation and joint compound sampled in the basement, and one of the nonfriable materials sampled, only the two friable materials tested positive for asbestos.

3.73 BUILDING 66A

Building 66A, one-half of a duplex constructed in 1900, is used as NCO quarters. Two types of friable and two types of nonfriable suspect ACM were found (Table 3.73-1). Only one of the two friable materials, MAG-block insulation sampled in the basement, tested positive for asbestos.

3.74 BUILDING 66B

Building 66B, one-half of a duplex connected to Building 66A, is used as NCO quarters. Two types of friable and three types of nonfriable suspect ACM were identified and sampled (Table 3.74-1). Only one sample, friable MAG-block insulation obtained from the basement, tested positive for asbestos.

3.75 BUILDING 69

Building 69, constructed in 1917, is a detached garage. The two types of possible ACM identified and sampled at the building were both nonfriable (Table 3.75-1). Only one type of material, transite panels, tested positive for asbestos. This material was sampled from the exterior of the building.

3.76 BUILDING 350

Building 350, used as a bath house, was constructed in 1937. One type of friable and five types of nonfriable suspect ACM were identified at the site (Table 3.76-1). The friable material and three of the nonfriable materials were sampled and tested negative for asbestos.

3.77 BUILDING 351

Building 351, a water treatment building was built in 1937. One type of friable and one type of nonfriable suspect ACM were identified at the site (Table 3.77-1). A sample taken from the nonfriable material tested negative for asbestos.

3.78 SUMMARY

Several materials sampled during the survey were found to contain asbestos. These materials generally occurred in similar areas within each building. The basement of most buildings contained several types of TSI. Materials that tested positive for asbestos include: air-cell and MAG-block pipe insulation, joint compound material for pipe elbows and joints, and paper pipe wrap for duct insulation. All of these materials are friable. The majority of the material tested contained between 15 and 65 percent asbestos. Some of the air-cell pipe insulation was as high as 75 percent asbestos.

Most other materials which tested positive for the presence of asbestos were generally found in the kitchens, bathrooms, and laundry rooms of the buildings, but are nonfriable and pose little health risk unless they are disturbed during renovation. All transite panel samples and five of the nine samples of 9x9 floor tile samples tested positive. One sample of 12x12 floor tiles from Building 39 also tested positive for asbestos. All types of these materials were sampled, but not all locations of these materials were sampled. Locations not sampled are assumed to contain asbestos. Photographs of the floor tiles found to contain asbestos are included with the report.

Several types of linoleum were found throughout the post and at least one sample was taken from each type. Some types of this nonfriable material were found to contain asbestos and some were not. Photographs of the different types of linoleum that tested positive for asbestos and the different types that tested negative are included with this report (Appendix C).

Sprayed-on acoustical ceilings were found to contain between 12 and 15 percent asbestos. These ceilings were found only in buildings 49, 54, and 55. Buildings 49 and 54 are clubs for officers and NCOs, and Building 55 is an administrative office. Textured plaster contained 2 percent asbestos in one sample in the basement of Building 2A. Sheetrock/joint compound also tested positive for asbestos. These materials are friable.

Suspect materials which tested negative for asbestos were wire wrap, tar paper, ceiling and wall plaster, roof shingles, ceiling panels, Sheetrock, and various adhesive materials.

Table 3.1-1 Summary of Asbestos Survey Results for Building 1A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	1A-001		4	Basement	1,2,3,4,5	Y	Fair	38	35.0	11	7
Joint Compound	TSI	1A-004		2	Basement	1,2,3,4,5	Y	Fair	11	40.0	6	3
Joint Compound	TSI	1A-004	D	2	Basement	1,2,3,4,5	Y	Fair	11	40.0	6	3
NONFRIABLE ASBESTOS												
Linoleum	Misc	1A-007		10	First floor	10,12,13,14,15	N	Fair	162	30.0	0	0
Linoleum	Misc	1A-007	D	10	First floor	10,12,13,14,15	N	Fair	162	12.0	0	0
NO ASBESTOS												
Ceiling Sheet Panels	Misc	1A-002		4	Basement	4	Y	Poor	132	LT 0.5	0	0
2x4 Ceiling Panels	Misc	1A-003		5	Basement	5	Y	Fair	36	LT 0.5	0	0
Sheetrock	Misc	1A-005		11	First floor	11	Y	Good	700	LT 0.5	0	0
Linoleum	Misc	1A-006		11	First floor	11	N	Good	50	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.2-1 Summary of Asbestos Survey Results for Building 1B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	1B-001		3	Basement	1,2,3,4,5	Y	Fair	11	40.0	12	14
Joint Compound	TSI	1B-001	D	3	Basement	1,2,3,4,5	Y	Fair	11	45.0	12	14
Air Cell Insulation	TSI	1B-002		4	Basement	1,2,3,4,5	Y	Fair	59	35.0	15	15
NO ASBESTOS												
Linoleum	Misc	1B-003		3	Basement	3,9,10,11,17,18,19,20,21,22,23,24,25	N	Good	1001	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,3,5,7,16,18,22	N	Fair	105		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2	Y	Fair	100		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.3-1 Summary of Asbestos Survey Results for Building 2A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	2A-001		4	Basement	1,2,4	Y	Fair	110	60.0	18	12
Joint Compound	TSI	2A-002		2	Basement	1,2,4	Y	Fair	6	30.0	16	10
Textured Plaster	Misc	2A-004		13	Basement	13,28	Y	Fair	100	2.0	9	5
Paper Pipe Wrap Insulation	TSI	NS		--	--	4	Y	Fair	1	*	8	7
NONFRIABLE ASBESTOS												
Linoleum	Misc	2A-006		18	First floor	13,14,15,18	N	Good	620	13.0	0	0
Linoleum	Misc	2A-009		30	Second floor	30	N	Good	64	3.0	0	0
NO ASBESTOS												
Ceiling and Wall Plaster	Misc	2A-003		2	Basement	2	Y	Poor	400	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	2A-003	D	2	Basement	2	Y	Poor	400	LT 0.5	0	0
Linoleum	Misc	2A-005		17	Basement	17,28	N	Good	105	LT 0.5	0	0
Linoleum	Misc	2A-007		12	First floor	12	N	Fair	70	LT 0.5	0	0
Sheetrock	Misc	2A-008		18	First floor	18	Y	Fair	2	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,19,20	N	Good	64		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.4-1 Summary of Asbestos Survey Results for Building 2B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	2B-001		3	Basement	1,2,3,4	Y	Fair	67	LT 0.5+	24	11
Air Cell Insulation	TSI	2B-002		3	Basement	1,2,3,4	Y	Fair	67	30.0	24	11
Air Cell Insulation	TSI	2B-003		4	Basement	1,2,3,4	Y	Fair	67	40.0	24	11
Sheetrock/Joint Compound	Misc	2B-008		18	First floor	18	Y	Good	10	LT 0.5+	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	2B-006		14	First floor	13,14,18	N	Good	235	50.0	0	0
NO ASBESTOS												
Ceiling and Wall Plaster	Misc	2B-004		11	First floor	5,7,11,14	Y	Poor	10000	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	2B-004	D	11	First floor	5,7,11,14	Y	Poor	10000	LT 0.5	0	0
Linoleum	Misc	2B-005		12	First floor	12	N	Fair	100	LT 0.5	0	0
Linoleum	Misc	2B-007		15	First floor	15,17,28,29	N	Good	260	LT 0.5	0	0
Linoleum	Misc	2B-009		16	First floor	16	N	Good	9	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	4	N	Good	30		0	0
Sheetrock	Misc	NS		--	--	12	Y	Fair	300		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.5-1 Summary of Asbestos Survey Results for Building 3

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	3-002		3	Basement	1,2,3	Y	Fair	206	65.0	12	10
Air Cell Insulation	TSI	3-002	D	3	Basement	1,2,3	Y	Fair	206	65.0	12	10
NONFRIABLE ASBESTOS												
Linoleum	Misc	3-004		21	Second floor	19,20,21,22,26,28,29,30	N	Good	600	25.0	0	0
NO ASBESTOS												
Wire Wrap	Misc	3-001		2	Basement	1,2,3,28	N	Good	175	LT 0.5	0	0
Linoleum	Misc	3-003		7	First floor	4,7,9,10	N	Good	324	LT 0.5	0	0
Linoleum	Misc	3-005		32	Second floor	32	N	Good	3	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.6-1 Summary of Asbestos Survey Results for Building 4

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	4-004		5	First floor	22a,5,4b,4d,4e,4f,4g,9a	Y	Fair	450	35.0	22	13
MAG-Block Insulation	TSI	4-008		46	Second floor	4b,4d,4e	Y	Fair	20	LT 0.5+	14	8
NONFRIABLE ASBESTOS												
Linoleum	Misc	4-003		20	First floor	20	N	Good	130	20.0	0	0
Linoleum	Misc	4-006		4d	First floor	4b,4c,4d,4e,4f	N	Good	400	15.0	0	0
NO ASBESTOS												
Linoleum	Misc	4-001		15	First floor	1,15,32,41,30	N	Good	500	LT 0.5	0	0
Linoleum	Misc	4-002		22	First floor	19,24,25,26,22,23,17,18,45,46,48,44,49,50,51,52,53,55,56,47,42,6,5,7,8,11,12	N	Good	3000	LT 0.5	0	0
Linoleum	Misc	4-002	D	22	First floor	19,24,25,26,22,23,17,18,45,46,48,44,49,50,51,52,53,55,56,47,42,6,5,7,8,11,12	N	Good	3000	LT 0.5	0	0
Linoleum	Misc	4-005		48	Second floor	48	N	Good	120	LT 0.5	0	0
Adhesive Materials	Misc	4-007		31	Second floor	31,30	N	Good	430	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	19,27	N	Good	100		0	0
Sheetrock	Misc	NS		--	--	1,11,20,48	Y	Good	10000		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2,19,27,28,29	Y	Poor	10000		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.7-1 Summary of Asbestos Survey Results for Building 5

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NONFRIABLE ASBESTOS												
Linoleum	Misc	5-002		14	First floor	14	N	Good	120	24.0	0	0
9x9 Floor Tiles	Misc	5-004		49	Second floor	49,23,23a	N	Fair	72	3.0	0	0
Linoleum	Misc	5-006		14a	First floor	14a,17,18, 39	N	Fair	208	24.0	0	0
NO ASBESTOS												
2x4 Ceiling Panels	Misc	5-001		11	Basement	11	Y	Fair	80	LT 0.5	0	0
2x4 Ceiling Panels	Misc	5-001	D	11	Basement	11	Y	Fair	80	LT 0.5	0	0
Linoleum	Misc	5-003		20	First floor	2,8,17,20, 30,42,43,4 7,52,26,62 ,63	N	Good	658	LT 0.5	0	0
2x4 Ceiling Panels	Misc	5-005		33	First floor	33,34,35,3 6	Y	Fair	577	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	NS		--	--	4	Y	Fair	144		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.8-1 Summary of Asbestos Survey Results for Building 6A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	6A-001		2	Basement	1,2,4	Y	Fair	117	40.0	10	9
Joint Compound	TSI	6A-002		2	Basement	1,2,4	Y	Fair	23	20.0	9	9
Joint Compound	TSI	6A-002	D	2	Basement	1,2,4	Y	Fair	23	20.0	9	9
NONFRIABLE ASBESTOS												
Linoleum	Misc	6A-003		16	First floor	13,14,15,16	N	Fair	430	20.0	0	0
NO ASBESTOS												
Linoleum	Misc	6A-004		17	Second floor	17	N	Fair	36	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1	N	Good	140		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2	Y	Good	500		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.9-1 Summary of Asbestos Survey Results for Building 6B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	6B-001		3	Basement	2,3,4	Y	Poor	160	60.0	30	16
Joint Compound	TSI	NS		--	--	2,3,4	Y	Fair	5	*	16	12
Textured Plaster	Misc	NS		--	--	12	Y	Fair	30	*	14	11
NONFRIABLE ASBESTOS												
Linoleum	Misc	6B-005		14	First floor	14	N	Good	130	20.0	0	0
Linoleum	Misc	6B-006		15	First floor	15	N	Good	60	25.0	0	0
NO ASBESTOS												
Sheetrock	Misc	6B-002		11	First floor	11,13,14,15,25	Y	Good	350	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	6B-003		12	First floor	3,5,7,8,9,10,11,13,21,23,24,25,26,27	Y	Fair	3000	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	6B-003	D	12	First floor	3,5,7,8,9,10,11,13,21,23,24,25,26,27	Y	Fair	3000	LT 0.5	0	0
Linoleum	Misc	6B-004		13	First floor	12,13	N	Good	310	LT 0.5	0	0
Linoleum	Misc	6B-007		25	Second floor	25	N	Good	110	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	3,4	N	Fair	20		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.10-1 Summary of Asbestos Survey Results for Building 7A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	7A-001		1	Basement	1,2	Y	Fair	167	25.0	14	11
Joint Compound	TSI	7A-002		1	Basement	1,2	Y	Fair	15	30.0	12	9
Joint Compound	TSI	7A-002	D	1	Basement	1,2	Y	Fair	15	30.0	12	9
NONFRIABLE ASBESTOS												
Linoleum	Misc	7A-003		10	First floor	10	N	Good	140	20.0	0	0
Linoleum	Misc	NS		--	--	9,12	N	Good	350	#	0	0
Linoleum	Misc	NS		--	--	11	N	Good	49	#	0	0
Linoleum	Misc	NS		--	--	20	N	Good	64	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,3	N	Good	140		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.11-1 Summary of Asbestos Survey Results for Building 7B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	7B-001		3	Basement	1,3	Y	Poor	140	60.0	22	12
Air Cell Insulation	TSI	7B-001	D	3	Basement	1,3	Y	Poor	140	55.0	22	13
Joint Compound	TSI	7B-002		1	Basement	1,3	Y	Poor	11	25.0	23	10
MAG-Block Insulation	TSI	7B-003		1	Basement	1,3	Y	Poor	47	30.0	26	11
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	24,25	N	Good	150	#	0	0
NO ASBESTOS												
Linoleum	Misc	7B-004		11	First Floor	11,12,13,14	N	Good	516	LT 0.5	0	0
Wire Wrap	Misc	NS			--	1,3,16,19	N	Good	60		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,5,7,9,15,17,21,27	Y	Good	10000		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.12-1 Summary of Asbestos Survey Results for Building 8A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	8A-001		1	Basement	1,2,3	Y	Fair	5	30.0	18	10
Air Cell Insulation	TSI	8A-002		2	Basement	1,2,3	Y	Fair	130	35.0	24	22
Joint Compound	TSI	8A-003		2	Basement	1,2,3	Y	Poor	10	30.0	16	15
Joint Compound	TSI	8A-003	D	2	Basement	1,2,3	Y	Poor	10	35.0	16	15
Sheetrock/Joint Compound	Misc	8A-005		11	First floor	11	Y	Fair	10	LT 0.5+	15	16
NONFRIABLE ASBESTOS												
Linoleum	Misc	8A-007		15	First floor	14,15,13	N	Fair	1500	21.0	0	0
NO ASBESTOS												
Joint compound on Fiberglass	TSI	8A-004		2	Basement	1,2,3	Y	Fair	6	LT 0.5	0	0
Sheetrock	Misc	8A-006		11	First floor	11,13,14,15	Y	Fair	2000	LT 0.5	0	0
Linoleum	Misc	8A-008		25	Second floor	25	N	Good	525	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,4,5,6,8,9,10,12,16,17,18,19,20,21,22,23,24,25,26	Y	Fair	10000		0	0
Wire Wrap	Misc	NS		--	--	2,2a,3,4,6	N	Good	100		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.13-1 Summary of Asbestos Survey Results for Building 88

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	88-008		3	Basement	1,2,3	Y	Fair	110	75.0	23	19
Joint Compound	Misc	88-011		11	First floor	11	Y	Good	50	LT 0.5+	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	88-004		13	First floor	13	N	Good	150	25.0	0	0
Linoleum	Misc	88-004	D	13	First floor	13	N	Good	150	25.0	0	0
Linoleum	Misc	88-005		14	First floor	14	N	Good	56	36.0	0	0
Linoleum	Misc	88-006		15	First floor	15	N	Good	30	30.0	0	0
NO ASBESTOS												
Sheetrock	Misc	88-001		24	Second floor	11,24	Y	Poor	64	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	88-002		24	Second floor	1,8,9,10,12,16,18,19,20,23,25,30	Y	Good	10000	LT 0.5	0	0
Linoleum	Misc	88-003		24	Second floor	24	N	Good	110	LT 0.5	0	0
Joint compound on Fiberglass	TSI	88-007		2	Basement	1,2,3	Y	Fair	60	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	2,3	N	Fair	20		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.14-1 Summary of Asbestos Survey Results for Building 9A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	9A-001		1	Basement	1	Y	Fair	30	15.0	18	8
MAG-Block Insulation	TSI	9A-001	D	1	Basement	1	Y	Fair	30	15.0	18	8
Air Cell Insulation	TSI	NS		--	--	2,3	Y	Fair	116	*	12	13
NONFRIABLE ASBESTOS												
Linoleum	Misc	9A-004		12	First floor	11,12,13,14	N	Good	350	20.0	0	0
Linoleum	Misc	NS		--	--	20	N	Good	80	#	0	0
NO ASBESTOS												
Ceiling and Wall Plaster	Misc	9A-002		1	Basement	1,4,11,15,16,17,18,19,20,21,22,23,24,25,26	Y	Fair	10000	LT 0.5	0	0
Joint compound on Fiberglass	TSI	9A-003		3	Basement	2,3	Y	Fair	2	LT 0.5	0	0
12x12 Ceiling Tiles	Misc	9A-005		13	First floor	13	Y	Good	160	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,15,16,22,23	N	Good	180		0	0
Adhesive Materials	Misc	NS		--	--	11,12,13,14,20	N	Good	160		0	0
Sheetrock	Misc	NS		--	--	10,12,13,14,20	Y	Good	600		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.15-1 Summary of Asbestos Survey Results for Building 9B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	9B-001		1	Basement	1,2,3	Y	Fair	7	20.0	14	11
Air Cell Insulation	TSI	9B-002		1	Basement	1,2,3	Y	Poor	78	30.0	14	13
Air Cell Insulation	TSI	9B-002	D	1	Basement	1,2,3	Y	Poor	78	35.0	14	13
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	11,12,13	N	Good	364	#	0	0
Linoleum	Misc	NS		--	--	14,23,24	N	Good	168	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,5,15,16,19	N	Good	48		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	3	Y	Poor	500		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.16-1 Summary of Asbestos Survey Results for Building 10A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	10A-001		1	Basement	1,2,3	Y	Fair	56	70.0	12	15
Air Cell Insulation	TSI	10A-001	D	1	Basement	1,2,3	Y	Fair	56	70.0	12	15
Joint Compound	TSI	10A-002		3	Basement	1,2,3	Y	Fair	14	30.0	12	14
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	11,12,13,14	N	Good	370	#	0	0
Linoleum	Misc	NS		--	--	23	N	Good	80	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,5,15,16,17,19	N	Fair	125		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	3	Y	Poor	500		0	0
2x4 Ceiling Panels	Misc	NS		--	--	2	Y	Fair	100		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.17-1 Summary of Asbestos Survey Results for Building 10B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	10B-002		1	Basement	1	Y	Good	10	30.0	- -	- -
Joint Compound	TSI	10B-003		1	Basement	1,3	Y	Good	8	LT 0.5+	15	18
Air Cell Insulation	TSI	10B-004		3	Basement	1,2,3,4	Y	Fair	100	65.0	17	16
NONFRIABLE ASBESTOS												
Linoleum	Misc	10B-005		15	First floor	15	N	Poor	100	26.0	0	0
Transite Panels	Misc	10B-008		17a	First floor	17a	N	Poor	10	2.0	0	0
Transite Panels	Misc	10B-008	D	17a	First floor	17a	N	Poor	10	2.0	0	0
NO ASBESTOS												
Wire Wrap	Misc	10B-001		1	Basement	1,2,3,4,6,9,12,18,19,	N	Fair	229	LT 0.5	0	0
Adhesive Materials	Misc	10B-006		15	First floor	14,15,16,17	N	Fair	100	LT 0.5	0	0
Linoleum	Misc	10B-007		16	First floor	16,17	N	Fair	90	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	15,16,17	Y	Good	2500		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	5,10,12,17,18,19,20,21,22,23,24,25,27	Y	Fair	10000		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.18-1 Summary of Asbestos Survey Results for Building 11A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	11A-002		1	Basement	1,2,3	Y	Fair	14	30.0	8	7
Air Cell Insulation	TSI	11A-003		2	Basement	1,2,3	Y	Fair	80	23.0	12	7
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	23,24	N	Good	114	#	0	0
NO ASBESTOS												
2x4 Ceiling Panels	Misc	11A-001		2a	Basement	2a	Y	Fair	12	LT 0.5	0	0
2x4 Ceiling Panels	Misc	11A-001	D	2a	Basement	2a	Y	Fair	12	LT 0.5	0	0
Linoleum	Misc	11A-004		12	First floor	11,12,13,14	N	Fair	513	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	2,5,12,16,19	N	Fair	86		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	3	Y	Fair	500		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.19-1 Summary of Asbestos Survey Results for Building 11B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	11B-001		3	Basement	1,2,3	Y	Fair	125	35.0	14	12
Air Cell Insulation	TSI	NS		--	--	1,2,3	Y	Fair	200	*	14	13
NO ASBESTOS												
Sheetrock	Misc	11B-002		11	First floor	11,13,14,15,26,27	Y	Good	600	LT 0.5	0	0
Linoleum	Misc	11B-003		14	First floor	12,13,14,15	N	Good	350	LT 0.5	0	0
Linoleum	Misc	11B-004		26	Second floor	26,27	N	Good	150	LT 0.5	0	0
Linoleum	Misc	11B-005		26	Second floor	26,27	N	Good	90	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	2,12,13	N	Good	100		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,4,5,6,7,8,9,10,12,16,17,18,19,20,21,22,23,24,25,26,27,28	Y	Good	10000		0	0
Adhesive Materials	Misc	NS		--	--	12,13,14,15,26,27	N	Good	90		0	0
Sheetrock	Misc	11B-002	D	11	First floor	11,13,14,15,26,27	Y	Good	600	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.20-1 Summary of Asbestos Survey Results for Building 12A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	12A-001		1	Basement	1,2,3	Y	Poor	110	45.0	15	11
Joint Compound	TSI	12A-002		1	Basement	1,2,3	Y	Fair	6	40.0	14	6
Air Cell Insulation	TSI	12A-001	D	1	Basement	1,2,3	Y	Poor	110	45.0	15	11
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	11,12,13,14,24,25	N	Good	330	#	0	0
NO ASBESTOS												
Roof Shingles	Misc	12A-003		14a	Exterior	14a	N	Good	2000	LT 0.5	0	0
Tar Paper	Misc	12A-004		14a	Exterior	14a	N	Good	2000	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	NS		--	--	3	Y	Fair	720		0	0
Wire Wrap	Misc	NS		--	--	1,2,5,15	N	Good	115		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.21-1 Summary of Asbestos Survey Results for Building 12B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	12B-001		1	Basement	1,2,3	Y	Fair	90	45.0	12	8
Joint Compound	TSI	12B-002		1	Basement	1,2,3	Y	Fair	10	30.0	12	7
MAG-Block Insulation	TSI	NS		--	--	3	Y	Fair	10	*	9	8
NONFRIABLE ASBESTOS												
Linoleum	Misc	12B-004		14	First floor	14	N	Good	77	25.0	0	0
Linoleum	Misc	NS		--	--	12,13	N	Good	80	#	0	0
NO ASBESTOS												
Ceiling and Wall Plaster	Misc	12B-003		3	Basement	3	Y	Poor	400	LT 0.5	0	0
Linoleum	Misc	12B-005		15	First floor	15	N	Good	35	LT 0.5	0	0
Linoleum	Misc	12B-006		24	Second floor	24	N	Good	70	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,3,6	N	Good	135		0	0
Ceiling and Wall Plaster	Misc	12B-003	D	3	Basement	3	Y	Poor	400	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.22-1 Summary of Asbestos Survey Results for Building 13A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	13A-001		2	Basement	1,2,3	Y	Fair	80	40.0	12	8
Joint Compound	TSI	13A-002		2	Basement	1,2,3	Y	Poor	3	40.0	14	12
Air Cell Insulation	TSI	13A-001	D	2	Basement	1,2,3	Y	Fair	80	35.0	12	8
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	14,20,21	N	Good	36	#	0	0
Linoleum	Misc	NS		--	--	11,12,13	N	Good	160	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,3,6,16,24,26	N	Fair	100		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1	Y	Fair	700		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.23-1 Summary of Asbestos Survey Results for Building 13B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	13B-001		3	Basement	1,2,3	Y	Fair	97	35.0	5	5
Joint Compound	TSI	13B-001	D	3	Basement	1,2,3	Y	Fair	97	40.0	5	5
MAG-Block Insulation	TSI	NS		--	--	1	Y	Fair	20	*	14	10
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	12	N	Good	160	#	0	0
Linoleum	Misc	NS		--	--	14,24,25	N	Good	246	#	0	0
Linoleum	Misc	NS		--	--	13	N	Good	117	#	0	0
Linoleum	Misc	NS		--	--	11	N	Good	175	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,16	N	Good	61		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1	Y	Poor	700		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.24-1 Summary of Asbestos Survey Results for Building 14A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	14A-001		1	Basement	1,2,3	Y	Fair	132	40.0	9	5
Joint Compound	TSI	14A-002		3	Basement	1,2,3	Y	Fair	10	40.0	7	7
Joint Compound	TSI	14A-002	D	3	Basement	1,2,3	Y	Fair	10	35.0	7	7
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	13,14	N	Good	218	#	0	0
Linoleum	Misc	NS		--	--	24,26	N	Fair	40	#	0	0
Linoleum	Misc	NS		--	--	12	N	Good	115	#	0	0
NO ASBESTOS												
Linoleum	Misc	14A-003		11	First floor	11	N	Good	195	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,3	N	Good	85		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	3	Y	Fair	400		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.25-1 Summary of Asbestos Survey Results for Building 14B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	14B-001		4	Basement	1,2,3,4	Y	Poor	150	40.0	26	17
Air Cell Insulation	TSI	14B-001	D	4	Basement	1,2,3,4	Y	Poor	150	45.0	26	17
NO ASBESTOS												
Linoleum	Misc	14B-002		13	First floor	12,13,14,15	N	Good	400	LT 0.5	0	0
Linoleum	Misc	14B-003		26	Second floor	26,27	N	Good	200	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,1a,2,4,5,6,8,9,10,12,16,17,18,19,20,21,22,23,24,25,26,27,28	Y	Good	10000		0	0
Wire Wrap	Misc	NS		--	--	3,5,17,20	N	Good	200		0	0
Sheetrock	Misc	NS		--	--	11,13,14,15,26	Y	Good	2000		0	0
Adhesive Materials	Misc	NS		--	--	12,13,14,15,26,27	N	Good	500		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.26-1 Summary of Asbestos Survey Results for Building 15A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	15A-002		2	Basement	1,2,3	Y	Fair	19	25.0	9	7
Air Cell Insulation	TSI	15A-003		3	Basement	1,2,3	Y	Fair	121	30.0	11	8
NONFRIABLE ASBESTOS												
Linoleum	Misc	15A-004		11	First floor	10,11,12,13	N	Good	258	20.0	0	0
Linoleum	Misc	NS		--	--	22,23	N	Good	118	#	0	0
NO ASBESTOS												
Wool Pipe Wrap Insulation	TSI	15A-001		1	Basement	1	N	Fair	31	LT 0.5	0	0
Wool Pipe Wrap Insulation	TSI	15A-001	D	1	Basement	1	N	Fair	31	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,3,5,15	N	Good	98		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2	Y	Fair	400		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.27-1 Summary of Asbestos Survey Results for Building 15B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	15B-001		4	Basement	1a,1,2,3,4	Y	Fair	190	35.0	15	14
Joint Compound	TSI	15B-002		3	Basement	1,2,3,4	Y	Fair	60	25.0	- -	- -
Joint Compound	TSI	15B-002	D	3	Basement	1,2,3,4	Y	Fair	60	25.0	- -	- -
NONFRIABLE ASBESTOS												
Linoleum	Misc	15B-005		27	Second floor	27	N	Good	50	20.0	0	0
NO ASBESTOS												
Linoleum	Misc	15B-003		13	First floor	12,13	N	Good	200	LT 0.5	0	0
Linoleum	Misc	15B-004		15	First floor	14,15	N	Good	200	LT 0.5	0	0
Linoleum	Misc	15B-006		26	Second floor	26	N	Good	30	LT 0.5	0	0
Sheetrock	Misc	15B-007		13	First floor	13,14,15,27	Y	Good	2000	LT 0.5	0	0
Adhesive Materials	Misc	NS		--	--	5,12,13,14	N	Good	100		0	0
Wire Wrap	Misc	NS		--	--	1,2,3,5,19a	N	Good	100		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2,4,5,6,8,9,10,12,16,17,18,19,20,21,22,23,24,25,26,27	Y	Good	300		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.28-1 Summary of Asbestos Survey Results for Building 16A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	16A-001		3	Basement	1,2,3	Y	Fair	275	60.0	16	13
Air Cell Insulation	TSI	16A-001	D	3	Basement	1,2,3	Y	Fair	275	60.0	16	13
Joint Compound	TSI	16A-002		3	Basement	1,2,3	Y	Fair	4	30.0	8	6
NONFRIABLE ASBESTOS												
Linoleum	Misc	16A-004		12	First floor	12,16	N	Good	130	20.0	0	0
Linoleum	Misc	NS		--	--	25,26	N	Good	306	#	0	0
Linoleum	Misc	NS		--	--	15	N	Good	70	#	0	0
Linoleum	Misc	NS		--	--	11,13,14	N	Good	150	#	0	0
NO ASBESTOS												
Linoleum	Misc	16A-003		9	First floor	9	N	Good	100	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,3,5	N	Good	1900		0	0
Sheetrock	Misc	NS		--	--	9	Y	Good	190		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.29-1 Summary of Asbestos Survey Results for Building 168

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	168-001		2	Basement	2,1	Y	Fair	130	40.0	14	7
Joint Compound	TSI	168-002		2	Basement	2,1	Y	Fair	7	30.0	14	8
Joint Compound	TSI	168-002	D	2	Basement	2,1	Y	Fair	7	25.0	14	8
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	9	N	Good	20	#	0	0
Linoleum	Misc	NS		--	--	11,12,13,14,15,16	N	Good	640	#	0	0
Linoleum	Misc	NS		--	--	25,26	N	Good	210	#	0	0
Linoleum	Misc	NS		--	--	27	N	Good	120	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,5,17,18	N	Good	70		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1	Y	Fair	100		0	0
Sheetrock	Misc	NS		--	--	9	Y	Good	125		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.30-1 Summary of Asbestos Survey Results for Building 17A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	17A-001		3	Basement	1a,1,2,3	Y	Fair	150	35.0	9	6
Joint Compound	TSI	17A-002		2	Basement	1,2,3	Y	Good	17	15.0	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	17A-005		13	First floor	11,12,13,14,15,16	N	Good	600	24.0	0	0
Linoleum	Misc	17A-007		27	Second floor	27	N	Good	60	2.0	0	0
NO ASBESTOS												
Sheetrock	Misc	17A-003		3	Basement	3,14,15,25	Y	Good	420	LT 0.5	0	0
Sheetrock	Misc	17A-003	D	3	Basement	3,14,15,25	Y	Good	420	LT 0.5	0	0
Linoleum	Misc	17A-004		10	First floor	10	N	Good	30	LT 0.5	0	0
Linoleum	Misc	17A-006		25	Second floor	25,26	N	Good	120	LT 0.5	0	0
Adhesive Materials	Misc	NS		--	--	11,12,13,16,15,14,25,26	N	Good	500		0	0
Wire Wrap	Misc	NS		--	--	23,18	N	Good	150		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.31-1 Summary of Asbestos Survey Results for Building 17B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	17B-001		3	Basement	1,2,3	Y	Fair	7	25.0	9	9
Joint Compound	TSI	17B-001	D	3	Basement	1,2,3	Y	Fair	7	25.0	9	9
Air Cell Insulation	TSI	17B-002		3	Basement	1,2,3	Y	Fair	195	40.0	11	14
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	9	N	Good	100	#	0	0
Linoleum	Misc	NS		--	--	27	N	Good	120	#	0	0
Linoleum	Misc	NS		--	--	14,25,26	N	Good	200	#	0	0
Linoleum	Misc	NS		--	--	11,12,13,15,16	N	Good	705	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,3,5,18	N	Good	120		0	0
Sheetrock	Misc	NS		--	--	9	Y	Good	240		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2	Y	Fair	720		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.32-1 Summary of Asbestos Survey Results for Building 18A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	18A-002		1	Basement	1,2	Y	Poor	160	35.0	32	15
MAG-Block Insulation	TSI	18A-001		1	Basement	1,2	Y	Fair	10	35.0	16	15
MAG-Block Insulation	TSI	18A-001	D	1	Basement	1,2	Y	Fair	10	40.0	16	15
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	5,5a,6	N	Good	20	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	18A-003		3	Basement	1,3,4,6,11,14,17,18,37	N	Good	100	LT 0.5	0	0
Linoleum	Misc	18A-004		3	First floor	8,15,16	N	Good	200	LT 0.5	0	0
Linoleum	Misc	18A-005		2	First floor	7	N	Good	100	LT 0.5	0	0
2x4 Ceiling Panels	Misc	NS		--	--	8,9	Y	Good	8		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39	Y	Good	10000		0	0
Adhesive Materials	Misc	NS		--	--	5,5a,6,7,8	N	Good	150		0	0
Sheetrock	Misc	NS		--	--	4,7,8,21,23,31	Y	Good	400		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.33-1 Summary of Asbestos Survey Results for Building 18B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	18B-001		1	Basement	1,2,3	Y	Fair	100	40.0	0	0
Air Cell Insulation	TSI	18B-001	D	1	Basement	1,2,3	Y	Fair	100	45.0	0	0
Joint Compound	TSI	18B-002		1	Basement	1,2,3	Y	Fair	4	30.0	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	14,15,16,17,18,20,21,22	N	Good	650	#	0	0
Linoleum	Misc	NS		--	--	5,7	N	Good	200	#	0	0
Linoleum	Misc	NS		--	--	6	N	Good	40	#	0	0
NO ASBESTOS												
Linoleum	Misc	18B-003		24	Third floor	23,24,26,25	N	Good	198	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	21	Y	Good	60		0	0
Wire Wrap	Misc	NS		--	--	1,2,3	N	Good	6		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.34-1 Summary of Asbestos Survey Results for Building 18C

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	18C-002		5	First floor	2,5	Y	Fair	80	70.0	25	16
NONFRIABLE ASBESTOS												
Linoleum	Misc	18C-003		5	First floor	5	N	Fair	150	20.0	0	0
Linoleum	Misc	NS		--	--	34	N	Good	14	#	0	0
NO ASBESTOS												
Ceiling and Wall Plaster	Misc	18C-001		2	Basement	2	Y	Poor	8000	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	18C-001	D	2	Basement	2	Y	Poor	8000	LT 0.5	0	0
2x4 Ceiling Panels	Misc	18C-004		8	First floor	8	Y	Fair	40	LT 0.5	0	0
2x4 Ceiling Panels	Misc	18C-005		8	First floor	8	Y	Fair	16	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	7,11	Y	Good	50		0	0
Wire Wrap	Misc	NS		--	--	2	N	Good	30		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.35-1 Summary of Asbestos Survey Results for Building 19A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	19A-001		2	Basement	1,2,3	Y	Poor	195	55.0	26	15
Air Cell Insulation	TSI	19A-001	D	2	Basement	1,2,3	Y	Poor	195	45.0	26	15
Joint Compound	TSI	NS		--	--	1,2,3	Y	Poor	16	*	15	11
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	8	N	Good	100	#	0	0
NO ASBESTOS												
Linoleum	Misc	19A-002		7	First floor	6,7,9	N	Good	250	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,3	N	Fair	100		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22	Y	Good	10000		0	0
Adhesive Materials	Misc	NS		--	--	6,7,8,9	N	Good	400		0	0
Sheetrock	Misc	NS		--	--	8,16,22	Y	Good	1500		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.36-1 Summary of Asbestos Survey Results for Building 198

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	198-001		1	Basement	1,2	Y	Fair	50	27.0	14	9
MAG-Block Insulation	TSI	198-001	D	1	Basement	1,2	Y	Fair	50	27.0	14	9
Air Cell Insulation	TSI	198-002		1	Basement	1,2	Y	Fair	80	40.0	14	12
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	16,17,4	N	Good	270	#	0	0
Linoleum	Misc	NS		--	--	16a	N	Good	24	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2	N	Good	40		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3,4,5,6,7,7a,8,9,9a,10,11,12,13,14,15,16,16a,17	Y	Good	10000		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.37-1 Summary of Asbestos Survey Results for Building 19C

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	19C-001		1	Basement	1,3	Y	Poor	7	25.0	15	11
Joint Compound	TSI	19C-001	D	1	Basement	1,3	Y	Poor	7	20.0	15	11
Air Cell Insulation	TSI	19C-002		1	Basement		Y	Poor	376	60.0	23	11
NONFRIABLE ASBESTOS												
Linoleum	Misc	19C-003		8	First floor	8,11,15,9	N	Good	271	20.0	0	0
Linoleum	Misc	NS		--	--	10	N	Good	25	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,3	N	Good	300		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.38-1 Summary of Asbestos Survey Results for Building 20

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	20-001		5	Basement	1,2,3,4,5,6,7	Y	Fair	455	65.0	11	11
Air Cell Insulation	TSI	20-001	D	5	Basement	1,2,3,4,5,6,7	Y	Fair	455	70.0	11	11
Joint Compound	TSI	20-002		4	Basement	1,2,3,4,5,6,7	Y	Good	5	35.0	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	31,30,28	N	Good	400	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,3,4,5,6,7	N	Good	75		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.39-1 Summary of Asbestos Survey Results for Building 21

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	21-001		1	Basement	1,2,5	Y	Fair	100	29.0	10	6
MAG-Block Insulation	TSI	21-002		1	Basement	1,2,5	Y	Fair	75	35.0	9	7
MAG-Block Insulation	TSI	21-002	D	1	Basement	1,2,5	Y	Fair	75	35.0	9	7
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	10,11,13,14,15,16	N	Good	397	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,19,20,26	N	Good	78		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.40-1 Summary of Asbestos Survey Results for Building 22

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	22-001		1	Basement	1,2,3	Y	Fair	180	LT 0.5	2	5
Joint Compound	TSI	22-002		1	Basement	1,2,3	Y	Fair	20	25.0	3	7
Joint Compound	TSI	22-002	D	1	Basement	1,2,3	Y	Fair	20	29.0	3	7
Paper Pipe Wrap Insulation	TSI	NS		--	--	1,5	Y	Fair	100	*	12	13
MAG-Block Insulation	TSI	NS		--	--	5	Y	Good	80	*	12	10
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	10,11,12,19,21	N	Good	260	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,8,9,27	N	Good	30		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.41-1 Summary of Asbestos Survey Results for Building 23

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	23-001		2	Basement	2,1,3	Y	Fair	200	40.0	24	14
Sheetrock/Joint Compound	Misc	23-002		2	Basement	2	Y	Good	50	2.0	9	4
Joint Compound	TSI	NS		--	--	1,2,3	Y	Fair	10	*	10	9
NONFRIABLE ASBESTOS												
Linoleum	Misc	23-003		13	First floor	9,14,16,13	N	Good	350	25.0	0	0
Linoleum	Misc	23-004		19	Second floor	19	N	Good	30	30.0	0	0
NO ASBESTOS												
Tar Paper	Misc	23-005		26	Second floor	26	N	Good	6	LT 0.5	0	0
Tar Paper	Misc	23-005	D	26	Second floor	26	Y	Good	6	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36	Y	Fair	10000		0	0
Adhesive Materials	Misc	NS		--	--	9,13,14,16,19	N	Fair	500		0	0
Wire Wrap	Misc	NS		--	--	2,10,22,23,24	N	Fair	200		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.42-1 Summary of Asbestos Survey Results for Building 24

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	24-001		1	Basement	1,3	Y	Fair	19	40.0	17	13
Air Cell Insulation	TSI	24-002		1	Basement	1,3	Y	Fair	380	65.0	13	12
Air Cell Insulation	TSI	24-002	D	1	Basement	1,3	Y	Fair	380	70.0	13	12
NONFRIABLE ASBESTOS												
Linoleum	Misc	24-003		11	First floor	11	N	Fair	160	18.0	0	0
Linoleum	Misc	NS		--	--	4,6,15,7,12,13,14	N	Good	356	#	0	0
NO ASBESTOS												
Tar Paper	Misc	24-004		Rf	Exterior	Entire roof	N	Good	1500	LT 0.5	0	0
Roof Shingles	Misc	24-005		Rf	Exterior	Entire roof	N	Good	1500	LT 0.5	0	0
Roof Sealant	Misc	24-006		Rf	Exterior	Entire roof	N	Good	1500	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30	Y	Good	10000		0	0
Sheetrock	Misc	NS		--	--	1	Y	Good	80		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.43-1 Summary of Asbestos Survey Results for Building 25

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	25-002		2	Basement	1,2,5	Y	Fair	280	65.0	16	14
Joint Compound	TSI	25-001		2	Basement	1,2,5	Y	Fair	80	45.0	15	12
Joint Compound	TSI	25-001	D	2	Basement	1,2,5	Y	Fair	80	45.0	15	12
Sheetrock/Joint Compound	Misc	25-005		19	First floor	19	Y	Good	50	LT 0.5+	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	25-004		19	First floor	14,16,18,19	N	Good	400	15.0	0	0
NO ASBESTOS												
Linoleum	Misc	25-003		12	First floor	12,11	N	Good	200	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,5,6,7,22,21	N	Fair	90		0	0
Sheetrock	Misc	NS		--	--	2,28	Y	Fair	100		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34	Y	Good	10000		0	0
Adhesive Materials	Misc	NS		--	--	4,16,18,19	N	Good	400		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.44-1 Summary of Asbestos Survey Results for Building 31

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NONFRIABLE ASBESTOS												
9x9 Floor Tiles	Misc	31-004		13	First floor	13	N	Fair	40	2.0	0	0
NO ASBESTOS												
2x4 Ceiling Panels	Misc	31-001		6a	First floor	4,5,6,9	Y	Fair	3124	LT 0.5	0	0
2x4 Ceiling Panels	Misc	31-001	D	6a	First floor	4,5,6,9	Y	Fair	3124	LT 0.5	0	0
12x12 Floor Tiles	Misc	31-002		6a	First floor	6a,7,8,14	N	Fair	295	LT 0.5	0	0
Linoleum	Misc	31-003		13	First floor	12,13	N	Good	447	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1	N	Good	50		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.45-1 Summary of Asbestos Survey Results for Building 32

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	32-001		1	Basement	1,1a	Y	Fair	2	LT 0.5+	9	9
Paper Pipe Wrap Insulation	TSI	32-002		1	Basement	1	Y	Fair	3	15.0	9	9
MAG-Block Insulation	TSI	NS		--	--	1,1a	Y	Fair	100	*	8	18
NONFRIABLE ASBESTOS												
12x12 Floor Tiles	Misc	NS		--	--	3,4,5,7,8,13,14,15,17,18,20	N	Good	2256	#	0	0
NO ASBESTOS												
Ceiling Sheet Panels	Misc	32-003		1	Basement	1	Y	Fair	1900	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	Y	Fair	15000		0	0
Wire Wrap	Misc	NS		--	--	1	N	Good	50		0	0
Ceiling Sheet Panels	Misc	32-003	D	1	Basement	1	Y	Fair	1900	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.46-1 Summary of Asbestos Survey Results for Building 37

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NO ASBESTOS												
9x9 Floor Tiles	Misc	37-001		1	First floor	1,2	N	Good	400	LT 0.5	0	0
9x9 Floor Tiles	Misc	37-001	D	1	First floor	1,2	N	Good	400	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.47-1 Summary of Asbestos Survey Results for Building 39

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Sheetrock/Joint Compound	Misc	39-001		4	First floor	1,2,3,4,5,6	Y	Fair	1800	LT 0.5+	5	7
Sheetrock/Joint Compound	Misc	39-001	D	4	First floor	1,2,3,4,5,6	Y	Fair	1800	LT 0.5+	5	7
NONFRIABLE ASBESTOS												
12x12 Floor Tiles	Misc	39-002		2	First floor	2,3,4,5,6	N	Good	180	2.0	0	0
NO ASBESTOS												
Ceiling Sheet Panels	Misc	39-003		2a	First floor	2a	Y	Good	600	LT 0.5	0	0
Adhesive Materials	Misc	NS		--	--	1,2,3,4,5,6	N	Good	180		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.49-1 Summary of Asbestos Survey Results for Building 48

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Paper Pipe Wrap Insulation	TSI	48-005		8	First floor	8,8a	Y	Fair	10	30.0	6	14
Paper Pipe Wrap Insulation	TSI	48-005	D	8	First floor	8,8a	Y	Fair	10	30.0	6	14
Air Cell Insulation	TSI	NS		--	--	8a	Y	Poor	2	*	- -	- -
NONFRIABLE ASBESTOS												
Transite Panels	Misc	48-001		9	Exterior	9	N	Good	3000	45.0	0	0
Linoleum	Misc	48-002		7	First floor	7	N	Good	80	24.0	0	0
9x9 Floor Tiles	Misc	48-004		5	First floor	4,5,6	N	Good	1650	3.0	0	0
NO ASBESTOS												
12x12 Floor Tiles	Misc	48-003		2	First floor	1,2	N	Good	370	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	5,6	Y	Good	450		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3	Y	Good	4000		0	0
Adhesive Materials	Misc	NS		--	--	3,5,6	N	Good	135		0	0
Wire Wrap	Misc	NS		--	--	1,3,4,8,8a	N	Good	200		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.50-1 Summary of Asbestos Survey Results for Building 49

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Soundproofing	SM	49-003		36	Second floor	36,37,35	Y	Fair	180	15.0	16	17
Soundproofing	SM	49-003	D	36	Second floor	36,37,35	Y	Fair	180	15.0	16	17
Air Cell Insulation	TSI	49-007		1b	Basement	1a,1b,1	Y	Fair	200	30.0	18	18
NONFRIABLE ASBESTOS												
Linoleum	Misc	49-001		16	First floor	16	N	Good	120	24.0	0	0
Linoleum	Misc	49-010		24	First floor	24,25,26	N	Fair	170	20.0	0	0
Linoleum	Misc	NS		--	--	27	N	Good	40	#	0	0
9x9 Floor Tiles	Misc	NS		--	--	36	N	Good	22	#	0	0
NO ASBESTOS												
2x4 Ceiling Panels	Misc	49-002		14	First floor	14	Y	Fair	24	LT 0.5	0	0
12x12 Ceiling Tiles	Misc	49-004		7	First floor	7	Y	Fair	572	LT 0.5	0	0
12x12 Floor Tiles	Misc	49-005		11	First floor	11,13	N	Fair	296	LT 0.5	0	0
White Powder (unknown)	Misc	49-006		1a	Basement	1a	Y	Fair	30	LT 0.5	0	0
White Powder (unknown)	Misc	49-006	D	1a	Basement	1a	Y	Fair	30	LT 0.5	0	0
Linoleum	Misc	49-008		5	First floor	5	N	Good	50	LT 0.5	0	0
2x2 Ceiling Panels	Misc	49-009		2	First floor	5,2,3,7,8,10,12,14	Y	Fair	878	LT 0.5	0	0
12x12 Floor Tiles	Misc	49-011		33	First floor	33	N	Fair	110	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	1c,1d,1e,1f,1g,1h,10,4	Y	Good	1850		0	0
Adhesive Materials	Misc	NS		--	--	4,7,9	N	Good	286		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.51-1 Summary of Asbestos Survey Results for Building 50

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NONFRIABLE ASBESTOS												
Transite Panels	Misc	50-001		1	Exterior	1	N	Fair	540	55.0	0	0
NO ASBESTOS												
Tar Paper	Misc	50-002		1	Exterior	1	N	Fair	540	LT 0.5	0	0
Tar Paper	Misc	50-002	D	1	Exterior	1	N	Fair	540	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.52-1 Summary of Asbestos Survey Results for Building 51

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NONFRIABLE ASBESTOS												
Transite Panels	Misc	51-001		2	Exterior	2	N	Fair	500	45.0	0	0
NO ASBESTOS												
Tar Paper	Misc	51-002		2	Exterior	2	N	Good	500	LT 0.5	0	0
Tar Paper	Misc	51-002	D	2	Exterior	2	N	Good	500	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1	N	Fair	40		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.53-1 Summary of Asbestos Survey Results for Building 52

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Sheetrock/Joint Compound	Misc	52-002		1	Basement	1	Y	Good	2	LT 0.5+	0	0
NONFRIABLE ASBESTOS												
Transite Panels	Misc	52-001		14a	First floor	4a	N	Good	200	60.0	0	0
Transite Panels	Misc	52-001	D	14a	First floor	4a	N	Good	200	60.0	0	0
NO ASBESTOS												
Linoleum	Misc	52-003		8	Second floor	8,11,14,5,5a,4,4a	N	Good	1546	LT 0.5	0	0
Linoleum	Misc	52-004		9	Second floor	9	N	Good	37	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	5,5a,7,8,14	N	Good	56		0	0
Sheetrock	Misc	NS		--	--	3,4,4a,9	Y	Good	777		0	0
Adhesive Materials	Misc	NS		--	--	3,4,4a,5,5a,8,9,10,11,12,13,14	N	Good	379		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.54-1 Summary of Asbestos Survey Results for Building 53

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Paper Pipe Wrap Insulation	TSI	53-001		2	Basement	2a,2	Y	Good	50	35.0	- -	- -
NO ASBESTOS												
Sheetrock	Misc	53-002		2	Basement	1,9	Y	Good	300	LT 0.5	0	0
Linoleum	Misc	53-003		9	First floor	4,5,6,7,8,9,13,15,16,17,18,19,20	N	Good	1300	LT 0.5	0	0
2x2 Ceiling Panels	Misc	53-004		7	First floor	7	Y	Good	30	LT 0.5	0	0
2x2 Ceiling Panels	Misc	53-004	D	7	First floor	7	Y	Good	30	LT 0.5	0	0
Linoleum	Misc	53-005		14	Second floor	14	N	Good	25	LT 0.5	0	0
Adhesive Materials	Misc	NS		--	--	4,5,6,7,8,9,13,14,15,16,17,18,19,20	N	Good	180		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	Y	Good	10000		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.55-1 Summary of Asbestos Survey Results for Building 54

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	54-004		3	Basement	3	Y	Poor	240	20.0	18	22
Soundproofing	SM	54-008		8	First floor	8,13	Y	Poor	2300	8.0	17	25
Soundproofing	SM	54-009		8	First floor	8,13	Y	Poor	2300	6.0	17	25
Soundproofing	SM	54-009	D	8	First floor	8,13	Y	Poor	2300	9.0	17	25
Sheetrock/Joint Compound	Misc	NS		--	--	22	Y	Fair	100	*	17	18
NONFRIABLE ASBESTOS												
Transite Panels	Misc	54-003		25	First floor	25	N	Fair	500	15.0	0	0
Linoleum	Misc	54-007		8a	First floor	8a,11	N	Fair	325	15.0	0	0
Linoleum	Misc	54-006		9	First floor	9	N	Poor	175	3.0	0	0
Linoleum	Misc	54-010		12	First floor	12	N	Fair	250	20.0	0	0
9x9 Floor Tiles	Misc	NS		--	--	6,7	N	Fair	420	#	0	0
12x12 Floor Tiles	Misc	NS		--	--	11	N	Fair	140	#	0	0
Linoleum	Misc	NS		--	--	9	N	Good	200	#	0	0
NO ASBESTOS												
9x9 Floor Tiles	Misc	54-001		15	First floor	15,18,19,20	N	Poor	130	LT 0.5	0	0
Sheetrock	Misc	54-002		15	First floor	15	Y	Fair	21	LT 0.5	0	0
2x4 Ceiling Panels	Misc	54-005		8b	First floor	8b,10,8a,12,13	Y	Fair	1700	LT 0.5	0	0
Sheetrock	Misc	54-011		8a	First floor	8a	Y	Fair	225	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	20a,3,15,25	N	Fair	400		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	5,6,7,8a,9,10,12,15,17,18,22,24	Y	Fair	5529		0	0
Adhesive Materials	Misc	NS		--	--	5,6,9,14	N	Fair	720		0	0
12x12 Ceiling Tiles	Misc	NS		--	--	8,8a,8b,12	Y	Good	2200		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.56-1 Summary of Asbestos Survey Results for Building 55

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Soundproofing	SM	55-003		2	First floor	2,3,10,1	Y	Poor	656	12.0	12	8
Soundproofing	SM	55-003	D	2	First floor	2,3,10,1	Y	Poor	656	16.0	12	8
NONFRIABLE ASBESTOS												
Linoleum	Misc	55-001		2	First floor	2,3,4,6,10,11,12	N	Poor	1106	24.0	0	0
9x9 Floor Tiles	Misc	55-002		2	First floor	2,3,4,6,10,11,12	N	Fair	1106	8.0	0	0
Linoleum	Misc	55-004		12	First floor	12	N	Fair	12	21.0	0	0
Linoleum	Misc	55-005		13	First floor	10,7,9,13	N	Fair	241	15.0	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.57-1 Summary of Asbestos Survey Results for Building 56A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Paper Pipe Wrap Insulation	TSI	56A-001		1	Basement	1	Y	Fair	20	45.0	12	7
NONFRIABLE ASBESTOS												
Linoleum	Misc	56A-002		8	First floor	4,6,7,8,12,13,18	N	Good	617	25.0	0	0
Linoleum	Misc	56A-002	D	8	First floor	4,6,7,8,12,13,18	N	Good	617	20.0	0	0
Linoleum	Misc	56A-003		10	First floor	10	N	Good	24	35.0	0	0
Linoleum	Misc	56A-004		14	First floor	14	N	Good	121	20.0	0	0
Linoleum	Misc	56A-005		17	First floor	15,17	N	Good	200	20.0	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.58-1 Summary of Asbestos Survey Results for Building 56B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Paper Pipe Wrap Insulation	TSI	56B-001		1	Basement	1	Y	Fair	20	35.0	12	8
Paper Pipe Wrap Insulation	TSI	56B-001	D	1	Basement	1	Y	Fair	20	35.0	12	8
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	9,10	N	Good	109	#	0	0
NO ASBESTOS												
Linoleum	Misc	56B-002		8	First floor	9,6,7,8,12,14,15,17,18	N	Good	600	LT 0.5	0	0
Linoleum	Misc	56B-003		13	First floor	13	N	Good	42	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,15	N	Good	38		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.59-1 Summary of Asbestos Survey Results for Building 57A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Paper Pipe Wrap Insulation	TSI	57A-001		2	Basement	1,2	Y	Fair	20	40.0	22	10
NONFRIABLE ASBESTOS												
Linoleum	Misc	57A-002		5	First floor	4,5,6,7	N	Good	400	24.0	0	0
Linoleum	Misc	57A-002	D	5	First floor	4,5,6,7	N	Good	400	20.0	0	0
Transite Panels	Misc	57A-003		7	Exterior	6	N	Good	700	60.0	0	0
Linoleum	Misc	57A-004		18	Second floor	12,14,15,16,18	N	Good	400	23.0	0	0
NO ASBESTOS												
Linoleum	Misc	57A-005		13	Second floor	13	N	Good	30	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,12	N	Good	95		0	0
Adhesive Materials	Misc	NS		--	--	4,5,6,7,8,9,18,12,13,14,15,16	N	Good	496		0	0
Sheetrock	Misc	NS		--	--	6,7,13	Y	Good	60		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	2,4,5,7,8,9,11,12,13,14,18,16	Y	Good	3709		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.60-1 Summary of Asbestos Survey Results for Building 57B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Paper Pipe Wrap Insulation	TSI	57B-001		1	Basement	1,2	Y	Poor	29	60.0	10	- -
Paper Pipe Wrap Insulation	TSI	57B-001	D	1	Basement	1,2	Y	Poor	29	65.0	10	- -
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	12	N	Good	42	#	0	0
NO ASBESTOS												
Ceiling and Wall Plaster	Misc	57B-002		1	Basement	1	Y	Poor	420	LT 0.5	0	0
Linoleum	Misc	57B-003		7	First floor	5,6,7,8,9,10,11,12,13,14,15,16	N	Fair	5000	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2	N	Good	12		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.61-1 Summary of Asbestos Survey Results for Building 58A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	58A-001		1	Basement	1,2,3,3a	Y	Fair	98	45.0	12	6
Paper Pipe Wrap Insulation	TSI	58A-002		1	Basement	1,3	Y	Poor	5	LT 0.5+	11	6
Paper Pipe Wrap Insulation	TSI	58A-002	D	1	Basement	1,3	Y	Poor	5	LT 0.5+	11	6
Air Cell Insulation	TSI	NS		--	--	1	Y	Fair	5	*	8	5
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	9	N	Good	49	#	0	0
Linoleum	Misc	NS		--	--	7,7a	N	Good	140	#	0	0
NO ASBESTOS												
12x12 Floor Tiles	Misc	58A-003		6	First floor	6,12	N	Good	120	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,3,5	N	Good	105		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.62-1 Summary of Asbestos Survey Results for Building 588

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	588-001		3	Basement	1,2,3	Y	Poor	110	35.0	0	0
MAG-Block Insulation	TSI	588-001	D	3	Basement	1,2,3	Y	Poor	110	40.0	0	0
Air Cell Insulation	TSI	NS		--	--	1	Y	Good	6	*	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	588-003		8	First floor	8,9,10	N	Good	130	24.0	0	0
Transite Panels	Misc	588-004		9	Exterior	9	N	Good	120	70.0	0	0
NO ASBESTOS												
12x12 Floor Tiles	Misc	588-002		6	First floor	6,18	N	Good	240	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	9,10,18	Y	Good	500		0	0
Adhesive Materials	Misc	NS		--	--	6,8,9,10,13	N	Good	182		0	0
Wire Wrap	Misc	NS		--	--	16,11	N	Good	40		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	4,5,7,8,11,12,13,14,15,16,17,18,19	Y	Good	2530		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.63-1 Summary of Asbestos Survey Results for Building 59

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	59-004		2	First floor	2,4,5,7,8,9,10,12,13,14	Y	Good	50	LT 0.5+	- -	- -
NONFRIABLE ASBESTOS												
Linoleum	Misc	59-001		5	First floor	4,5	N	Good	240	25.0	0	0
Linoleum	Misc	59-001	D	5	First floor	4,5	N	Good	240	28.0	0	0
Linoleum	Misc	NS		--	--	4,5	N	Good	55	#	0	0
NO ASBESTOS												
Adhesive Materials	Misc	59-002		5	First floor	1,2,4,5,6,7,8,9,10,11,12,13,14	N	Good	441	LT 0.5	0	0
Linoleum	Misc	59-003		9	First floor	2,7,8,9,10,11,12,13,14	N	Good	135	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14	Y	Good	1300		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.64-1 Summary of Asbestos Survey Results for Building 60A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	60A-001		1	Basement	1	Y	Fair	65	20.0	14	7
MAG-Block Insulation	TSI	60A-001	D	1	Basement	1	Y	Fair	65	20.0	14	7
Paper Pipe Wrap Insulation	Misc	NS		--	--	5	Y	Good	10	*	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	7,8,9	N	Good	140	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1	N	Good	20		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.65-1 Summary of Asbestos Survey Results for Building 60B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	60B-001		3	Basement	2,3	Y	Good	60	30.0	0	0
MAG-Block Insulation	TSI	NS		--	--	3	Y	Fair	40	*	15	14
NONFRIABLE ASBESTOS												
Transite Panels	Misc	60B-003		7a	Exterior	7a	N	Good	120	65.0	0	0
Transite Panels	Misc	60B-003	D	7a	Exterior	7a	N	Good	120	70.0	0	0
NO ASBESTOS												
Linoleum	Misc	60B-002		6	First floor	6,7,8	N	Good	130	LT 0.5	0	0
Tar Paper	Misc	60B-004		7a	Exterior	7a	N	Good	120	LT 0.5	0	0
9x9 Floor Tiles	Misc	60B-005		19	First floor	10,19	N	Good	240	LT 0.5	0	0
Linoleum	Misc	60B-006		13	Second floor	13	N	Good	35	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	5,10	Y	Good	500		0	0
Wire Wrap	Misc	NS		--	--	3,4,14,16	N	Good	124		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	4,5,6,9,11,12,13,14,15,16,17,18	Y	Good	8000		0	0
Adhesive Materials	Misc	NS		--	--	19,13,10,8,7,6	N	Good	120		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.66-1 Summary of Asbestos Survey Results for Building 61

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NONFRIABLE ASBESTOS												
Transite Panels	Misc	61-001		6	Exterior	6	N	Good	104	65.0	0	0
Transite Panels	Misc	61-001	D	6	Exterior	6	N	Good	104	70.0	0	0
Linoleum	Misc	NS		--	--	2,2a,3	N	Good	186	#	0	0
Linoleum	Misc	NS		--	--	10	N	Good	66	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,12	N	Fair	60		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.67-1 Summary of Asbestos Survey Results for Building 62

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Sheetrock/Joint Compound	Misc	NS		--	--	5,6,7,8,9,10,11,12,13,14,15,16,17	Y	Good	100	*	0	0
NO ASBESTOS												
Ceiling Paper	Misc	62-001		1	Basement	1	Y	Fair	350	LT 0.5	0	0
Ceiling Paper	Misc	62-001	D	1	Basement	1	Y	Fair	350	LT 0.5	0	0
Adhesive Materials	Misc	62-002		3	First floor	3,3a,4	N	Good	37	LT 0.5	0	0
Sheetrock	Misc	62-003		3	First floor	3,3a	Y	Good	110	LT 0.5	0	0
Linoleum	Misc	62-004		3	First floor	3,3a,4,14	N	Good	350	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1	N	Good	28		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	5,6,7,8,9,10,11,12,13,14,15,16,17,18	Y	Good	10000		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.68-1 Summary of Asbestos Survey Results for Building 63

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NONFRIABLE ASBESTOS												
9x9 Floor Tiles	Misc	63-002		1a	Basement	1a	N	Fair	100	7.0	0	0
9x9 Floor Tiles	Misc	63-002	D	1a	Basement	1a	N	Fair	100	7.0	0	0
NO ASBESTOS												
Ceiling Paper	Misc	63-001		1	Basement	1,1a	Y	Poor	160	LT 0.5	0	0
Linoleum	Misc	63-003		3	First floor	3,4,5	N	Good	172	LT 0.5	0	0
Linoleum	Misc	63-004		14	Second floor	12,13,14,15,16,17	N	Good	502	LT 0.5	0	0
Linoleum	Misc	63-005		11	Stair case	11	N	Good	26	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	6,12	N	Good	18		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.69-1 Summary of Asbestos Survey Results for Building 64A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	64A-001		1	Basement	1,2,3	Y	Fair	15	LT 0.5+	7	7
Air Cell Insulation	TSI	64A-002		2	Basement	1,2,3	Y	Fair	10	75.0	12	11
Air Cell Insulation	TSI	64A-002	D	2	Basement	1,2,3	Y	Fair	10	70.0	12	11
Paper Pipe Wrap Insulation	TSI	64A-003		7	First floor	7	Y	Fair	10	LT 0.5+	14	6
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	5,5a	N	Good	140	#	0	0
NO ASBESTOS												
9x9 Floor Tiles	Misc	64A-004		7	First floor	7	N	Good	60	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2,3	N	Good	65		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.70-1 Summary of Asbestos Survey Results for Building 64B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	64B-001		1	Basement	1,2,3	Y	Fair	92	30.0	12	9
Air Cell Insulation	TSI	64B-001	D	1	Basement	1,2,3	Y	Fair	92	35.0	12	9
Joint Compound	TSI	64B-002		1	Basement	1,2,3,9	Y	Fair	23	30.0	14	7
Paper Pipe Wrap Insulation	Misc	NS		--	--	1,19	Y	Fair	70	*	12	7
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	6,7	N	Good	115	#	0	0
Linoleum	Misc	NS		--	--	12	N	Good	50	#	0	0
Linoleum	Misc	NS		--	--	18	N	Good	60	#	0	0
NO ASBESTOS												
Wire Wrap	Misc	64B-003		1	Basement	1,2,3	N	Fair	15	LT 0.5	0	0
12x12 Floor Tiles	Misc	64B-004		9	First floor	9	N	Good	60	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.71-1 Summary of Asbestos Survey Results for Building 65A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Air Cell Insulation	TSI	65A-001		1	Basement	1,2,3	Y	Fair	120	45.0	6	13
NONFRIABLE ASBESTOS												
Linoleum	Misc	65A-002		4a	First floor	4,4a	N	Good	100	20.0	0	0
NO ASBESTOS												
Wire Wrap	Misc	NS		--	--	1,2,3	N	Good	50		0	0
Ceiling and Wall Plaster	Misc	65A-003		10	Second floor	10,13,14,16,15,17,7,8,9,4,5	Y	Fair	3200	LT 0.5	0	0
Ceiling and Wall Plaster	Misc	65A-003	D	10	Second floor	10,13,14,16,15,17,7,8,9,4,5	Y	Fair	3200	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	4,4a,6,16	Y	Good	305		0	0
Adhesive Materials	Misc	NS		--	--	4,4a,5	N	Good	200		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.72-1 Summary of Asbestos Survey Results for Building 65B

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
Joint Compound	TSI	65B-001		1	Basement	1,2,3	Y	Fair	34	40.0	12	8
Joint Compound	TSI	65B-001	D	1	Basement	1,2,3	Y	Fair	34	40.0	12	8
Air Cell Insulation	TSI	65B-002		1	Basement	1,2,3,4	Y	Fair	148	65.0	16	10
Paper Pipe Wrap Insulation	TSI	NS		--	--	8,19	Y	Good	10	*	0	0
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	6,7	N	Good	130	#	0	0
Transite Panels	Misc	NS		--	--	7	N	Good	70	#	0	0
NO ASBESTOS												
Linoleum	Misc	65B-003		5	First floor	5,8,9,12,14,16,19,18	N	Good	767	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1,2	N	Good	50		0	0
Ceiling and Wall Plaster	Misc	NS		--	--	7,8	Y	Good	100		0	0
Adhesive Materials	Misc	NS		--	--	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19	N	Good	600		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.73-1 Summary of Asbestos Survey Results for Building 66A

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	66A-001		1	Basement	1,3	Y	Fair	170	35	8	7
NONFRIABLE ASBESTOS												
Linoleum	Misc	NS		--	--	10,11,12	N	Good	150	#	0	0
NO ASBESTOS												
2x4 Ceiling Panels	Misc	66A-002		8	First floor	8	Y	Good	149	LT 0.5	0	0
2x4 Ceiling Panels	Misc	64A-002	D	8	First floor	8	Y	Good	149	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	1	N	Good	40		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.74-1 Summary of Asbestos Survey Results for Building 668

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
FRIABLE ASBESTOS												
MAG-Block Insulation	TSI	668-001		1	Basement	1,3	Y	Fair	175	25.0	6	8
MAG-Block Insulation	TSI	668-001	D	1	Basement	1,3	Y	Fair	175	30.0	6	8
NO ASBESTOS												
Sheetrock	Misc	668-002		11	First floor	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23	Y	Fair	10000	LT 0.5	0	0
Linoleum	Misc	668-003		4	First floor	4	N	Poor	26	LT 0.5	0	0
Linoleum	Misc	668-004		11	First floor	10,11,12	N	Good	70	LT 0.5	0	0
Linoleum	Misc	668-005		8	Second floor	8	N	Good	25	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.75-1 Summary of Asbestos Survey Results for Building 69

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NONFRIABLE ASBESTOS												
Transite Panels	Misc	69-001		1	Exterior	1	N	Fair	620	50.0	0	0
Transite Panels	Misc	69-001	D	1	Exterior	1	N	Fair	620	55.0	0	0
NO ASBESTOS												
Tar Paper	Misc	69-002		1	Exterior	1	N	Good	620	LT 0.5	0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.76-1 Summary of Asbestos Survey Results for Building 350

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NO ASBESTOS												
Sheetrock	Misc	350-001		2	First floor	1,2,3,4	Y	Good	1600	LT 0.5	0	0
Sheetrock	Misc	350-001	D	2	First floor	1,2,3,4	Y	Good	1600	LT 0.5	0	0
Roof Shingles	Misc	350-002		5	Exterior	5	N	Good	2000	LT 0.5	0	0
Roof Shingles	Misc	350-003		5	Exterior	5	N	Good	2000	LT 0.5	0	0
Tar Paper	Misc	350-004		5	Exterior	5	N	Good	2000	LT 0.5	0	0
Wire Wrap	Misc	NS		--	--	2,4,5	N	Good	300		0	0
Adhesive Materials	Misc	NS		--	--	1,2,4	N	Good	50		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

Table 3.77-1 Summary of Asbestos Survey Results for Building 351

Material		Sample ID	QC Type	Sample		Material Extent	Friable (Y/N)	Physical Condition	Footage Approx. Linear or Square Ft	Analytical Result % Asbestos	Highest	
Description	Class			Functional Space	Description						Risk #	Exposure #
NO ASBESTOS												
Concrete Expansion/Joint	Misc	351-001		1	First floor	1,2	N	Good	40	LT 0.5	0	0
Concrete Expansion/Joint	Misc	351-001	D	1	First floor	1,2	N	Good	40	LT 0.5	0	0
Sheetrock	Misc	NS		--	--	1,2	Y	Good	50		0	0

SM - Surface Material
TSI - Thermal System Insulation
Misc - Miscellaneous Material
D - Duplicate QC Type
- - no data
NS - Not Sampled
LT - Less Than
- Linoleum and Floor tiles not sampled but are assumed to contain asbestos. Actual determination of asbestos content should be made by comparing photos in Appendix C with linoleum at the site.
* - Homogeneous friable material that was not sampled in this building, but has been shown to contain asbestos in samples from other buildings at the site.
+ - Material is assumed to contain asbestos because samples from other locations tested positive.
All Level 1 Data

4.0 APPROACHES TO REMEDIATION OF MATERIALS CONTAINING ASBESTOS

Two courses of action may be taken for the remediation of materials containing asbestos at the Fort Douglas facility. The asbestos may be removed or a maintenance program to control the asbestos may be implemented. Generally, friable asbestos poses the greater problem. An assessment index, which considers health hazards, has been determined for all locations of friable asbestos.

4.1 CORRECTIVE ACTIONS FOR FRIABLE ASBESTOS

Friable ACM presents the greatest potential for risk and exposure as it is usually more easily disturbed than nonfriable ACM. Risk and exposure numbers were calculated for friable asbestos in the field by assessing the evidence of physical damage and the potential for future damage or exposure to occupants. (These numbers are located on the building survey results tables in Section 3). The risk and exposure numbers were used to calculate an assessment index letter.

Table 4.1-1 does not represent a recommendation for asbestos abatement, but does give an assessment index letter for which there are corresponding recommended corrective actions. Table 4.1-2 outlines the procedure to determine assessment index letters and Table 4.1-3 lists the corresponding recommended actions for each assessment index letter. Some of the listed recommended actions include assessment of the area by accredited personnel. This was accomplished during the RLSA field program.

Table 4.1-4 is an assessment index summary for friable asbestos. ACM that has been ranked with an assessment index A should be dealt with first, as these areas present the greatest risk (Table 4.1-3). All other areas must also be dealt with according to the recommended corrective actions. Most of the friable asbestos found is located in the basement areas of the buildings. Some of these basement areas were used as living spaces, but more commonly they were used as storage areas. These uses tend to increase the amount of damage to the ACM which, in turn, will increase the exposure risk. If these practices are discontinued and EPA recommended guidelines for "Managing Asbestos in Place" (EPA, 1990) are followed, the friable ACM present on post will pose little or no exposure risk.

4.2 OPERATIONS AND MAINTENANCE PROGRAM

An Operations and Maintenance (O & M) Program for asbestos which is not removed from buildings is considered an essential control measure by the Environmental Protection Agency (EPA). An O & M Program includes the following elements:

1) workers and building occupant notification concerning presence of asbestos;

2) initial cleaning and maintenance of all ACM;

3) repair of all damaged ACM in the building;

4) periodic inspection of ACM and ACM enclosures and encapsulations;

5) emergency procedures; and

6) worker training.

There are no specific training requirements for nonschool-related O & M Programs. The following recommendations for training comply with EPA requirements for school systems:

1) maintenance and custodial staff who work in buildings containing ACM should receive at least 2 hours of awareness training which includes asbestos uses and forms, health effects of asbestos exposure, asbestos locations in buildings at the facility, and asbestos damage recognition; and

2) maintenance and custodial staff who perform tasks that may disturb ACM should receive the training in item 1) and an additional 14 hours training which includes proper methods for handling asbestos, proper use and selection of respiratory protection, regulations governing the handling and disposal of asbestos materials, and hands-on training in the use of respiratory protection, personal protection measures, and good work practices.

The expense of an O & M Program depends largely upon future plans for occupancy and nature of activities at a given facility. Therefore, given the uncertainty concerning the future of the Fort Douglas facility, it is not possible to provide a reasonable estimate of the costs of an O & M Program.

Table 4.1-1 Assessment Index for Friable Asbestos by Building

Building Number	ACM Type	Highest Assessment Index
1A	Air cell insulation	D
	Joint compound	E
1B	Air cell insulation	C
	Joint compound	C
2A	Air cell insulation	A
	Joint compound	C
	Textured plaster	E
	Paper pipe wrap insulation	E
2B	Air cell insulation	A
3	Air cell insulation	C
4	Air cell insulation	A
	MAG-block insulation	C
5	No friable asbestos	
6A	Air cell insulation	C
	Joint compound	C
6B	Air cell insulation	A
	Joint compound	C
	Textured plaster	C
7A	Air cell insulation	C
	Joint compound	C
7B	Air cell insulation	A
	Joint compound	A
	MAG-block insulation	A
8A	Air cell insulation	A
	MAG-block insulation	A
	Joint compound	C
	Sheetrock/Joint compound	C
8B	Air cell insulation	A
9A	Air cell insulation	C
	MAG-block insulation	A
9B	Air cell insulation	C
	Joint compound	C

Table 4.1-1 Assessment Index for Friable Asbestos by Building (continued)

Building Number	ACM Type	Highest Assessment Index
10A	Air cell insulation	C
	Joint compound	C
10B	Air cell insulation	A
	MAG-block insulation	- -
	Joint compound	B
11A	Air cell insulation	D
	Joint compound	E
11B	Air cell insulation	C
	MAG-block insulation	C
12A	Air cell insulation	C
	Joint compound	D
12B	Air cell insulation	C
	Joint compound	D
	MAG-block insulation	C
13A	Air cell insulation	C
	Joint compound	C
13B	Joint compound	E
	MAG-block insulation	C
14A	Air cell insulation	E
	Joint compound	E
14B	Air cell insulation	A
15A	Air cell insulation	C
	Joint compound	E
15B	Air cell insulation	C
	Joint compound	- -
16A	Air cell insulation	C
	Joint compound	E
16B	Air cell insulation	D
	Joint compound	C
17A	Air cell insulation	E

Table 4.1-1 Assessment Index for Friable Asbestos by Building (continued)

Building Number	ACM Type	Highest Assessment Index
17B	Air cell insulation	C
	Joint compound	C
18A	Air cell insulation	A
	MAG-block insulation	C
18B	Air cell insulation	- -
	Joint compound	- -
18C	Air cell insulation	A
19A	Air cell insulation	A
	Joint compound	C
19B	Air cell insulation	C
	MAG-block insulation	C
19C	Air cell insulation	A
	Joint compound	C
20	Air cell insulation	C
21	Air cell insulation	E
	MAG-block insulation	E
22	Air cell insulation	F
	Joint compound	F
	Paper pipe wrap insulation	C
	MAG-block insulation	C
23	Air cell insulation	A
	Joint compound	C
	Sheetrock/joint compound	E
24	Air cell insulation	C
	Joint compound	A
25	Air cell insulation	C
	Joint compound	C
31	No friable asbestos	
32	Air cell insulation	C
	MAG-block insulation	B
	Paper pipe wrap insulation	C

Table 4.1-1 Assessment Index for Friable Asbestos by Building (continued)

Building Number	ACM Type	Highest Assessment Index
37	No asbestos found	
39	Sheetrock/joint compound	E
41	No asbestos found	
48	Air cell insulation	- -
	Paper pipe wrap insulation	C
49	Air cell insulation	A
	Soundproofing	B
50	No friable asbestos	
51	No friable asbestos	
52	No damaged/exposed friable asbestos	
53	Paper pipe wrap	- -
54	Air cell insulation	A
	Soundproofing	A
	Sheetrock/joint compound	A
55	Soundproofing	C
56A	Paper pipe wrap insulation	D
56B	Paper pipe wrap insulation	C
57A	Paper pipe wrap insulation	A
57B	Paper pipe wrap insulation	- -
58A	Air cell insulation	E
	MAG-bock insulation	D
	Paper pipe wrap insulation	D
58B	No damaged/exposed friable asbestos	- -
59	Joint compound	- -
60A	MAG-block insulation	D
60B	MAG-block insulation	C

Table 4.1-1 Assessment Index for Friable Asbestos by Building (continued)

Building Number	ACM Type	Highest Assessment Index
61	No friable asbestos	
62	No damaged/exposed friable asbestos	
63	No friable asbestos	
64A	Air cell insulation	C
	Joint compound	E
	Paper pipe wrap insulation	D
64B	Air cell insulation	C
	Joint compound	D
	Paper pipe wrap insulation	D
65A	Air cell insulation	C
65B	Air cell insulation	C
	Joint compound	C
66A	MAG-block insulation	E
66B	MAG-block insulation	C
69	No friable asbestos	
350	No asbestos	
351	No asbestos	

- - = No data

Table 4.1-2 Determination of an Assessment Index

Using the Damage/Risk and Exposure values, enter the matrix below and find the corresponding assessment index.

Damage/Risk (1 < D < 28)	Exposure (4 < E < 43)			
	43-26	25-17	16-8	7-4
28-17	A	A	A	B
16-11	A	B	C	D
10-5	A	B	C	E
4-1	A	C	D	F

Table 4.1-3 Recommended Corrective Actions for Asbestos Containing Materials

Assessment Index	Recommended Management Corrective Actions
A	Immediate Action - Requires assessment by accredited personnel* (in-house or contractor) who are experienced in and qualified to conduct asbestos assessments. Possible follow-up actions may include isolation of the area and the restriction of access and/or immediate removal of the ACM. If removal is indicated, action planning should include a detailed survey. This condition will likely involve a near term expenditure of funds. Managers must know exactly what needs to be done to eliminate the asbestos hazard and how to use available funds most effectively.
B	Action as Soon as Possible - Requires assessment by accredited personnel* (in-house or contractor) who are experienced in and qualified to conduct asbestos assessments. Initiate a Special O & M** program immediately. Possible follow-up actions may include the limiting of access to the area and the scheduling of removal during periods of low activity in the facility, not waiting for the normal repair and maintenance cycle.
C	Planned Action - Requires assessment by accredited personnel* (in-house or contractor) who is experienced in and qualified to conduct asbestos assessments. Initiate a Special O & M** program. Removal should be scheduled as part of the normal repair and maintenance cycle of a facility, minimizing cost and disturbance.
D	Repair - Initiate Special O & M** using accredited personnel*. Damaged areas should be repaired, where "repair" means returning damaged ACBM to an undamaged condition or to an intact state so as to contain fiber release. Schedule removal when practical and cost effective. Take preventative measures to reduce further damage.
E	Monitoring - Continue Special O & M** using accredited personnel*. Take steps to prevent damage to the ACMB or other ACM. Monitor frequently the condition of all ACM.
F	No Immediate Action - Continue Special O & M** using accredited personnel* until major renovation or demolition requires removal or until assessment factors change.

* Accredited personnel are industrial hygienists (American Board of Industrial Hygiene (ABIH) certified or who meet the Office of Personnel Management's 0690 classification standard) and other trained persons with a minimum of 1 year experience in asbestos assessment activities and who are accredited in the specific area they will be responsible for (inspector management planner, abatement designer, contractor, supervisor, and abatement worker) as specified in Section 206 of Title II of TSCA.

** An O & M program may include enclosure and encapsulation, where appropriate, to increase effectiveness.

Table 4.1-4 Assessment Index Summary for Friable Asbestos

Assessment Index	A	B	C	D	E	F
ACM TYPE	Bldg. #	Bldg. #	Bldg. #	Bldg. #	Bldg. #	Bldg. #
Air cell insulation	2A, 2B, 4, 6B, 7B, 8A, 8B, 10B, 14B, 18A, 18C, 19A, 19C, 23, 49, 54		1B, 3, 6A, 7A, 9A, 9B, 10A, 11B, 12A, 12B, 13A, 15A, 15B, 16A, 17B, 19B, 20, 24, 25, 32, 64A, 64B, 65A, 65B	1A, 11A, 16B	14A, 17A, 21, 58A	22
Joint Compound	7B, 24	1B, 10B	2A, 6A, 6B, 7A, 8A, 9B, 10A, 13A, 16B, 17B, 19A, 19C, 23, 25, 65B	12A, 12B, 64B	1A, 11A, 13B, 14A, 15A, 16A, 64A	22
MAG-block	7B, 8A, 9A	32	4, 11B, 12B, 13B, 18A, 19B, 22, 60B, 66B	58A, 60A	21, 66A	
Paper pipe wrap insulation	57A		22, 32, 48, 56B	56A, 58A, 64A, 64B	2A	
Soundprooofing	54	49	55			
Sheetrock/Joint compound	54		8A		23, 39	
Textured plaster			6B		2A	

5.0 REFERENCES

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40 CFR, Part 783, Appendix A to Subpart F

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