UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II
EDISON, NEW JERSEY 08837

ACTION MEMORANDUM RV1

DATE: JUL 16 2010

SUBJECT: Approval for Funding a Removal Action at the Charlestown Mall Site, Village of Frankfort, Herkimer County, New York

FROM: Terry E. Kish, On-Scene Coordinator
Removal Action Branch

TO: Walter E. Mugdan, Director
Emergency and Remedial Response Division

THRU: Joseph D. Rotola, Chief
Removal Action Branch

Site ID#: A239

I. PURPOSE

The purpose of this Action Memorandum is to request and document approval of the selected removal action described herein for the Charlestown Mall Site (Site), Village of Frankfort, Herkimer County, New York. This will be the first U.S. Environmental Protection Agency (EPA) removal action undertaken at the Site. The objective of this removal action is to mitigate the threat of direct contact posed to the public by polychlorinated biphenyls (PCBs), abandoned drums of chemicals and asbestos contaminated demolition debris present at the Site. This will be accomplished through the removal and off-site disposal of PCBs and drums; demolition of dilapidated asbestos contaminated structures; consolidation of asbestos contaminated debris in place and installation of a temporary protective cover over the contaminated debris. The total funding authorized by this Action Memorandum is $1,968,000, of which $1,410,000 is from the Regional removal advice of allowance for mitigation contracting. Conditions at the Site meet the criteria for a removal action under the Comprehensive Environmental Resource, Compensation and Liability Act (CERCLA) and Section 300.415(b) of the National Contingency Plan (NCP), 40 C.F.R. §300.415(b).

There are no nationally significant or precedent setting issues associated with this removal action.

II. SITE CONDITIONS AND BACKGROUND

The Charlestown Mall Site, located at 2205 Bleeker Street, Village of Frankfort, Herkimer County, New York, is the location of a former manufacturing facility which operated through various owners and industries from 1894 through the mid 1970's when manufacturing ended. In 1976, the facility was sold and a portion of it was redeveloped into the Charlestown Outlet Complex which operated through 1991 when it became the Charlestown Business Complex. Over the years, a series of buildings at the Site were not properly maintained and became extremely deteriorated. The property was sold in 2006 and again in 2007 when it was purchased by the current owner of the Site, Charlestown Mall of Utica, LLC, which continues to lease storage space within the intact buildings on the property.

In early 2008, the New York State Department of Labor (NYSDOL) discovered un-permitted demolition of one of the deteriorated buildings occurring at the Site, which was not in compliance with the National Emission Standard for Hazardous Air Pollutants (NESHAP) for asbestos. In October 2008, the New York State Department of Environmental Conservation (NYSDEC) referred the Site to EPA for assistance in performing a removal site evaluation (RSE). Following the initial RSE conducted by EPA and NYSDEC on November 5, 2008, NYSDEC proposed a draft clean up order to the owner of the facility to address asbestos contaminated debris and PCBs from the Site. The owner, which claimed to be unable to finance the clean-up, applied for a Restore New York Grant in order to obtain funding to cleanup the Site. As a result, NYSDEC agreed to suspend the draft clean up order to allow the owner to obtain funding. In October 2009, EPA was notified that the grant application for the Charlestown Mall was denied. Subsequently, EPA completed an additional RSE in November 2009 which has confirmed the release of asbestos to the environment and that a time-critical removal action is necessary. The Comprehensive Environmental Response, Compensation and Liability Information System Identification Number for the Site is NJC2004000513.

A. Site Description

1. Removal site evaluation (RSE)

On November 5, 2008, NYSDEC Bureau of Environmental Crimes Investigation (BECI) executed a search warrant in order to evaluate asbestos contamination as well as transformers reported to have been damaged as a result of demolition activities. EPA Removal Action Branch (RAB) and CID along with Removal Support Team 2 (RST) assessment personnel assisted BECI in conducting the investigation.

During the investigation, weathered presumed asbestos containing materials (ACM) were identified in the debris at several locations around the Site and samples of each material were collected for confirmation analysis. The results of the analyses confirmed asbestos to be present in the surface debris at two of seven locations sampled. In addition, ACM was confirmed to be present in the basement of Building 13 where it has fallen off pipes

which had deteriorated as a result of exposure to weather. All observed ACM was friable.

In addition to asbestos, EPA and BECI investigated the potential release of PCBs from electrical transformers as a result of the demolition/salvaging operations which occurred at the Site. Two electrical transformers have been identified in Building 15 which contain approximately 350 gallons of dielectric fluid. The tops of these two transformers had been removed, while two other transformers had been overturned, presumably for salvaging purposes. The contents of those transformers (approximately 150 gallons), was released onto the floor of Building 15. A sample of oily debris collected from the floor of the building confirmed the presence of PCBs at a concentration of 44,000 mg/kg. Samples collected from the intact transformers confirmed the presence of PCBs at concentrations less than 50 mg/kg. An additional oil sample collected by BECI was reported to be 100% Aroclor 1254. In addition, approximately 50 electrical capacitors and/or rectifiers were observed to be present and are presumed to contain PCBs. Several of the capacitors were observed to be leaking, and others had been opened and the contents had released onto the floor of the building.

Following this investigation, NYSDEC issued an administrative order to the owner of the Site requiring it to remediate the PCBs and asbestos contaminated debris identified at the Site. The owner of the Site stated that it intended to come into compliance with the Order, but would be financially dependent upon a Restore New York Grant which it had applied for. Additional investigation was suspended because of the NYSDEC enforcement action.

In October 2009, EPA was notified that the grant proposal submitted for Charlestown Mall was denied; therefore the owner of the property was financially incapable of performing the clean-up. As a result, DEC asked EPA to resume evaluation of the Site for removal action eligibility. Subsequently, EPA planned an expanded removal assessment which involved a more thorough evaluation of asbestos contamination within the large volume of demolition debris. This investigation was partially based on information contained in an asbestos survey, which was provided to EPA by the NYSDOL. The survey documented the presence of substantial amounts of friable asbestos present in many of the buildings which are now dilapidated or demolished.

The primary area of focus was former Building 3, which has been completely demolished with the exception of some partial exterior walls which remain standing. Once demolished, the debris from this building was compacted into its foundation by tracking over it with heavy equipment. This process pulverized the debris at the surface into mostly small fragments of brick and splinters of wood. During the assessment conducted in November 2008, ACM was only observed at two locations despite searching the entire 25,000 ft^2 of the Building 3 footprint. The reason for this was assumed to be because either the ACM was buried deeper because it was likely located mostly in the lower levels of the original structure, or because any ACM present in the debris at the surface had been pulverized and weathered to a point that it was difficult to discern. In order

to determine if the latter was true, EPA and RST mobilized to the Site on November 16, 2009, to initiate the additional assessment. The assessment involved the establishment of ten, 12 ft. x 12 ft. square sampling locations within the footprint of Building 3. The square sampling areas were spaced out evenly throughout the area of pulverized debris at locations which were determined to be safe (outside the shadow of unstable walls), and at locations which seemed to have a variety of debris types present. Once established, the debris within each square was thoroughly searched for asbestos containing fragments. The search was conducted by raking through the top three to four inches of debris, examining small fragments as they were encountered. Fragments suspected to be friable ACM were collected. Once the search of the 12 foot x 12 foot square was completed, certain fragments were selected for polarized light microscopy (PLM) asbestos analysis. Asbestos was positively identified in seven of the ten randomly placed grids ranging from <1% to 80% chrysotile.

During the November 2009 assessment the boiler house (aka. Building 6) was found to be unsecured after pieces of equipment had been conspicuously dismantled outside of the building leaving oil stains on the pavement. Inspection of the building confirmed that the building had been subject to scrap metal salvaging and vandalism which had caused the release of dielectric fluid from several transformers within the building. Several drums and small containers were also discovered to be abandoned within the building. Label information on many of the containers indicated that they contained hazardous substances. As a result of the inspection, EPA added the interior of this building to the ongoing assessment. The containers inside the building appeared to originate from when the boiler house operated and included lubricants, chlorinated solvents, acids, oxidizers, and biocides. Several samples from the drums were submitted for Resource Conservation and Recovery Act (RCRA) characteristics laboratory analysis; one drum of liquid was confirmed to have a pH of 13. Other drums of similar material were not submitted for analysis. Three drum samples analyzed for volatile organic compounds identified tetrachloroethylene (PCE) and/or trichloroethylene (TCE) as constituents. Analysis revealed that one of the drums contains approximately 60% PCE. PCBs were not identified to be present in the transformers which were accessible for sampling, however two large transformers were unable to be sampled. PCBs were identified at a concentration of 41 mg/kg in a drum marked lubricating oil indicating that dielectric fluid had likely been poured into the drum during salvaging. Also, several small buckets and tubs of oil were also observed around the building presumably originating from the salvaging of electrical components.

2. Physical location

The Charlestown Mall Site (43.089126 latitude, -75.183323 longitude), occupies approximately 14.5 acres, of which, approximately 1.7 acres is located in the City of Utica, Oneida County while the remainder is located in the Village of Frankfort, Herkimer County, New York. The Site is situated in a commercial/industrial area and approximately 400 residences are located within one mile of the Site. To the southwest of the Site is the Masonic Care Community of New York. This facility is a long term

care/rehabilitation facility which has capacity for approximately 300 residents. The Masonic Care Community includes a day care center which is situated approximately 500 feet to the southwest of the dilapidated buildings of the Site. Commercial/industrial operations border the Site to the southeast, north and west. At the eastern end of the Site, approximately two acres has been leased and is occupied by a steel fabricating business. The Mohawk River is located approximately one half mile north of the Site. A Site location map and Site layout map are included as Attachment 1.

3. Site characteristics

The Site is comprised of approximately 15 interconnected brick buildings. The buildings in the northeastern portion of the Site remain largely intact. Some of which are used as rental storage space for tenants while others house small commercial businesses. It appears that the number of commercial tenants is very limited. The southeastern edge of the Site consists of several badly deteriorated structures as well as some which have completely collapsed or been demolished. A steel fabricating company currently leases a modern steel building located at the eastern tip of the Site. None of these operations are contributing to the asbestos threat identified at the Site, however workers and tenants may potentially be exposed to asbestos contaminated debris when present at the Site.

4. Release or threatened release into the environment of a hazardous substance, or pollutant, or contaminant

The Site is defined as a facility under Section 101(9) of CERCLA, 42 U.S.C. § 9601(9), and hazardous substances abandoned at the Site and comingled with demolition debris at the Site in the debris at the Site constitute a "release," as defined in Section 101(22) of CERCLA, 42 U.S.C. Section § 9601(22). Sampling and analysis conducted at the Site by EPA have identified the following CERCLA hazardous substances as defined in 40 CFR Table 302.4.

Hazardous Substance	Statutory Source for Designation Under CERCLA
Asbestos	Clean Water Act - Section 307(a) Clean Air Act - Section 112
Polychlorinated Biphenyls	Clean Water Act Section 311(b)(2), 307(a), Clean Air Act § 112
Corrosive Liquids	Resource Conservation and Recovery Act Section 3001
Trichloroethylene	Clean Water Act Section 311(b)(2), 307(a), Clean Air Act - Section 112, Resource Conservation and Recovery Act Section 3001
Tetrachloroethylene	Clean Water Act Section 307(a), Clean Air Act - Section 112, Resource Conservation and Recovery Act Section 3001

Ignitable Liquids Resource Conservation and Recovery Act Section 3001

When friable, asbestos is designated as a CERCLA hazardous substance under 40 CFR,Table 302.4. Friability is the ease with which a material can be crumbled, pulverized, or reduced to powder when dry, by hand pressure. The degree of friability of the asbestos containing material determines the potential for fiber release to the air. An assessment which focused largely on the partially pulverized debris which has been compacted into the basement of former Building 3 identified asbestos to be present at the surface throughout the length of the former structure. Samples collected from this area identified chrysotile asbestos to be present at concentrations ranging from <1% to 80%.

An asbestos survey prepared in April 1998, identified asbestos to be present in Buildings 5 and 7, while Building 3 was determined to be unsafe to perform the survey. In Buildings 5 and 7, more than 3,500 linear feet of asbestos containing pipe insulation was identified. This is in addition to the other asbestos containing materials which included 7,000 linear feet of floor tile and mastic, as well as window caulking and glazing throughout the facility. A copy of this asbestos survey is included as Attachment 3.

5. National Priority List (NPL) status

At the present time, the Site is not on the NPL and there are no efforts underway to include the Site on the NPL.

6. Maps, pictures, and other graphic representations

A Site location map and Site layout map are included as Attachment 1, and photographs are included as Attachment 2.

B. Other Actions to Date

1. Previous actions

In Spring 2009, NYSDEC entered into negotiations with the current owner of the property to address asbestos and PCB contamination at the Site. As a result of that negotiation, the owner applied for a grant to fund the clean-up and re-development of the Site. Therefore, EPA suspended any further evaluation of the Site while the owner sought funding to perform the clean-up proposed by NYSDEC. In October 2009, EPA was notified that the application for funding was denied. EPA resumed evaluation of the Site in November 2009. In January 2010, EPA determined the Site to be eligible for a removal action and as a result, NYSDEC withdrew their proposed clean up order.

2. Current actions

Currently there are no ongoing actions to secure or address the hazardous substances at the Site. This removal action will consist of the following: abatement and offsite disposal of

asbestos containing materials where practicable and safe to do so; the removal of PCB containing oil, devices and debris; the removal of containers and drums of chemicals from Building 6; the controlled demolition of asbestos contaminated structures; installation of a temporary protective cover over contaminated debris; and the transportation of asbestos contaminated demolition debris off-site.

C. State and Local Authorities' role

1. State and local actions to date

In a letter dated October 24, 2008, NYSDEC requested that EPA evaluate the Site for eligibility for a time-critical removal action. Before an eligibility determination could be made, EPA had to determine whether the current of the property would enter into to a NYSDEC clean up order on consent to address asbestos and PCB contamination at the Site. Since the Site property owner claimed it would not be financially able to pay for the Site clean up, NYSDEC suspended negotiations on the draft clean up order to enable the owner to apply for a Restore New York grant to fund the clean-up and re-development of the Site. Restore New York are New York State grants that are awarded to municipally sponsored projects to demolish, deconstruct, rehabilitate and/or reconstruct vacant, abandoned or condemned buildings. EPA suspended any further evaluation of the Site to determine if the owner would be able to obtain funding to perform the clean-up of the Site under the proposed NYSDEC clean up order.

In October 2009, EPA was notified that the owner's application for funding from Restore New York had been denied. Since the owner would not be financially capable of complying with a clean up order, NYSDEC withdrew their proposed clean up order. As a result, EPA resumed evaluation of the Site in November 2009 to determine it's eligibility for a time-critical removal action. In January 2010, EPA determined the Site to be eligible for a removal action.

2. Potential for continued State/local response

There are no actions planned or being taken by any State or local government agencies to address the hazardous substances present at the Charlestown Mall Site.

III. THREATS TO PUBLIC HEALTH, OR WELFARE, OR THE ENVIRONMENTAL AND STATUTORY AND REGULATORY AUTHORITIES

Asbestos, corrosive liquids, ignitable liquids, trichloroethylene, tetrachloroethylene, and PCBs are hazardous substances, as defined by Section 101(14), of CERCLA.

Asbestos mainly affects the lungs and the membrane that surrounds the lungs. Breathing high levels of asbestos fibers for a long time may result in scar-like tissue in the lungs and in the pleural membrane (lining) that surrounds the lung. This disease is called asbestosis and is usually found in workers exposed to asbestos, but not in the general

public. People with asbestosis have difficulty breathing, often including a cough, and in severe cases heart enlargement. Asbestosis is a serious disease and can eventually lead to disability and death.

Breathing lower levels of asbestos may result in changes called plaques in the pleural membranes. Pleural plaques can occur in workers and sometimes in people living in areas with high environmental levels of asbestos. Effects on breathing from pleural plaques alone are not usually serious, but higher exposure can lead to a thickening of the pleural membrane that may restrict breathing.

Chlorinated solvents such as PCE and TCE are potential carcinogens, and they have deleterious non-cancer effects that could adversely affect the central nervous system, kidney, liver, and reproductive system. As such, they are considered hazardous to public health.

PCBs are readily absorbed into the body by all routes of exposure. PCBs may persist in human tissue for years after exposure stops. Long-term exposure to PCBs may affect the skin and liver. PCBs may impair function of the immune system. At high levels, PCBs have been shown to produce cancer and birth defects in laboratory animals. Although PCBs are suspected as a human carcinogen, they have very low potential for producing acute toxic affects. PCBs can bio-accumulate to concentrations which are toxic. A number of human studies indicate that PCBs pass through the placenta to the fetus. PCBs also concentrate in human breast milk.

As a result of the release or potential release of asbestos fibers to the atmosphere and as a result of the threat of direct contact with PCBs, the conditions at the Site meet the criteria for a CERCLA removal action as described in the NCP, 40 CFR 300.415(b)(2). The following criteria are directly applicable to the threats which exist at the Site:

(i) Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutant or contaminants.

There is a threat to human health posed by the ACM that has been released at the Site. The Site is regularly accessed by workers and tenants who rent storage space at the facility. Tenants accessing certain storage areas must pass immediately by the asbestos contaminated debris which has been pushed to the side of the access road through the Site. Persons coming into contact with the asbestos could inhale the material or have it deposited on their clothing, and subsequently inhaled. Vehicle traffic using access roads formerly covered by debris may also cause asbestos to be released into the air, threatening workers, tenants, and neighbors of the Site.

EPA's assessment confirmed that ACM is present at the surface of the debris throughout the Site and is currently subject to weathering. Weathering causes the matrix which binds the fibers together to be broken down, releasing the fibers to the environment. Once in the environment, the stable mineral fibers persist and do not readily break down further. Any

disturbance of these materials by tenants, workers, or trespassers may cause asbestos fibers to be released to the air.

PCB oil has been discharged to the floor of a small electrical building. A sample of the oily debris collected from the floor confirmed the presence of PCBs at a concentration of 44,000 mg/kg. The absence of free liquid on the floor of the building supports the assumption that the oil has found an exit point from the building. Although structurally intact, the small electrical building is unsecured and the windows are broken out. PCBs can become deposited on the shoes and clothing of trespassers seeking to salvage from the electrical components within the building.

(iii) Hazardous substances, or pollutants, or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

Fourteen drums ranging from 30 to 55 gallons in size have been identified inside of the boiler house. Drum contents include lubricants, biocides and solvents. Limited sampling confirmed one drum of corrosive liquid, three drums that contain chlorinated solvents as ingredients, and one drum of lubricating oil which has been contaminated with PCBs.

(iv) High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate.

EPA's assessment has confirmed that asbestos containing building materials are present at the surface of the pulverized debris and is subject to constant weathering as a result. Weathering causes the matrix which binds the asbestos fibers together to be broken down, releasing the fibers into the environment. Once in the environment, the stable mineral fibers persist and do not readily break down further. Any disturbance of these materials by tenants, workers or trespassers may cause asbestos fibers to be released to the air. Runoff from the Site may cause additional migration of these asbestos fibers.

(v) Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

Asbestos containing building materials are present at the surface of the debris throughout the Site and are subject to weathering as a result. Weathering causes the matrix which binds the asbestos fibers together to be broken down, releasing the fibers into the environment. Once in the environment, the stable mineral fibers persist and do not readily break down further. Several dilapidated structures remaining at the Site contain weathered ACM. High winds traveling through the remaining standing structures, some of which are four stories tall, may cause asbestos fibers to be entrained in the air high above the ground increasing the likelihood of being carried beyond the property boundary.

(vii) The availability of other appropriate federal or State response mechanisms to respond to the release.

EPA is the only government agency capable of taking timely and appropriate action to respond to the threat posed by the presence of hazardous substances at the Site.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed action description

The activities proposed below will be implemented to mitigate the threats to public health at the Site.

Boiler house Chemicals

- Characterize the contents of all abandoned drums and containers.
- Dispose of hazardous substances in accordance with the RCRA and the CERCLA off-site disposal rule.

Polychlorinated Biphenyls

- Remove and dispose of the electrical transformers and electrical capacitors from Building 15.
- Containerize and dispose of appropriately the PCB contaminated debris from the floor of Building 15.
- Demolish Building 15 and remove, segregate, and dispose of off-site as PCB contaminated the concrete floor of the building.
- Conduct soil sampling in the vicinity of the PCB release to determine if soil remediation is warranted because of the PCB release.

Asbestos

- Repair/Replace existing chain link fence.
- Demolish select partial structures and free-standing walls which are determined to present immediate safety hazards to EPA and EPA contractors once on-site.
- Evaluate Buildings 7, 13, and 17 to determine if any bulk ACM can be safely removed prior to demolition of the remaining contaminated structures.
- Remove and dispose off-site ACM removed from existing dilapidated structures and segregated from the debris when possible.

- Demolish the remaining portions of Buildings 5, 7, 13 and 17 that cannot be decontaminated safely.
- Demolish Building 9, which is partially collapsed, to provide space to stage the additional asbestos contaminated debris accumulated and provide access to a partially collapsed firing range which may contain residual lead and require offsite disposal.
- Segregate and decontaminate scrap metal for recycling.
- Segregate and decontaminate wood timbers for disposal.
- Dispose off-site asbestos contaminated debris
- Place an impermeable liner over the asbestos contaminated debris which will mitigate the release of asbestos fibers while the material is staged onsite pending offsite disposal.

2. Contribution to remedial performance

The response measures proposed in this Action Memorandum will address the threat of direct contact to asbestos by the public. The proposed action will contribute effectively to any long-term remedial action with respect to the release or threat of release of asbestos at the Site.

3. Engineering Evaluation/Cost Analysis (EE/CA) (for non-time critical actions only)

Because of the time critical nature of this proposed removal action, an EE/CA will not be prepared.

4. Applicable or Relevant and Appropriate Requirements (ARARs)

ARARs within the scope of this project including the RCRA, Hazardous Material Transportation Act, Toxic Substance Control Act and Clean Air Act National Emissions Standards for Hazardous Air Pollutants, and these ARARs will be met to the extent practicable as will any additional ARARs encountered during the implementation of removal activities.

5. Project schedule

Field activities are anticipated to be initiated in July 2010 and be completed in September 2010.

B. Estimated Costs

The estimated costs for the completion of this project are summarized below. A detailed confidential independent government cost estimate is included as Attachment 4.

Direct Extramural Costs	Total Funding Authorized and Requested
Regional Allowance Costs (Total clean-up contractor including labor, equipment and materials)	$1,175,000
20% Contingency	$235,000
Total ERRS Costs	$1,410,000
Other Extramural Costs Not Funded From the Regional Allowance	$0
Total RST 2 Costs	$230,000
Subtotal, Extramural Costs	$1,640,000
20% Extramural Cost Contingency	$328,000
Total Direct Extramural Costs	$1,968,000

VI. EXPECTED CHANGE IN THE SITATION SHOULD ACTION BE DELAYED OR NOT TAKEN

If the proposed actions described in this memorandum are not implemented, the threats posed by the Site would persist. The threat posed by asbestos contaminated debris and PCBs represent a significant threat to human health and the environment. If no actions are taken, ACM will continue to weather and deteriorate releasing asbestos fibers into the environment.

VII. OUTSTANDING POLICY ISSUES

There is no known outstanding policy issues associated with the Site at the present time.

VIII. ENFORCEMENT

The current and former owners of the property claim to be financially incapable of performing the clean-up activities requested by EPA.

ENFORCEMENT COST ESTMATE

The total EPA cost for this removal action, based on full-cost accounting practices that will be eligible for cost recovery, is estimated to be $2,935,222 and was calculated as follows:

COST CATEGORY	AMOUNT
Direct Extramural cost	$1,968,000
Direct Intramural Cost	$62,000
Subtotal Direct Costs	$2,030,000
Indirect costs (Indirect Regional Cost Rate 34.74 %)	$705,222
Estimated EPA Costs eligible for Cost Recovery	$2,935,222

This estimate includes direct costs, which include direct extramural costs and direct intramural costs. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of site-specific direct costs, consistent with full cost accounting methodology which became effective on October 2, 2000. These estimates do not include prejudgment interest, do not take into account other enforcement costs, including

Department of Justice costs, and may be adjusted during the course of the removal action. The estimates are for illustrative purposes only, and their use in this Action Memorandum may not be relied upon by any third party as binding upon EPA. Neither the lack of a total cost estimate nor deviation of actual costs from this estimate will affect the United States' right to cost recovery.

IX. RECOMMENDATION

This decision document represents the selected removal action for the Charlestown Mall Site located in the City of Utica, Oneida County, and the Village of Frankfort, Herkimer County, New York. This document has been developed in accordance with CERCLA, as amended and is not inconsistent with the NCP. This decision is based on the administrative record for the Site.

The total project ceiling requested in this Action Memorandum is $1,968,000 of Direct Extramural Funds, of which $1,410,000 will funded from the Regional Removal Advice of allowance. There are sufficient monies in the Advice of allowance to fund the project.

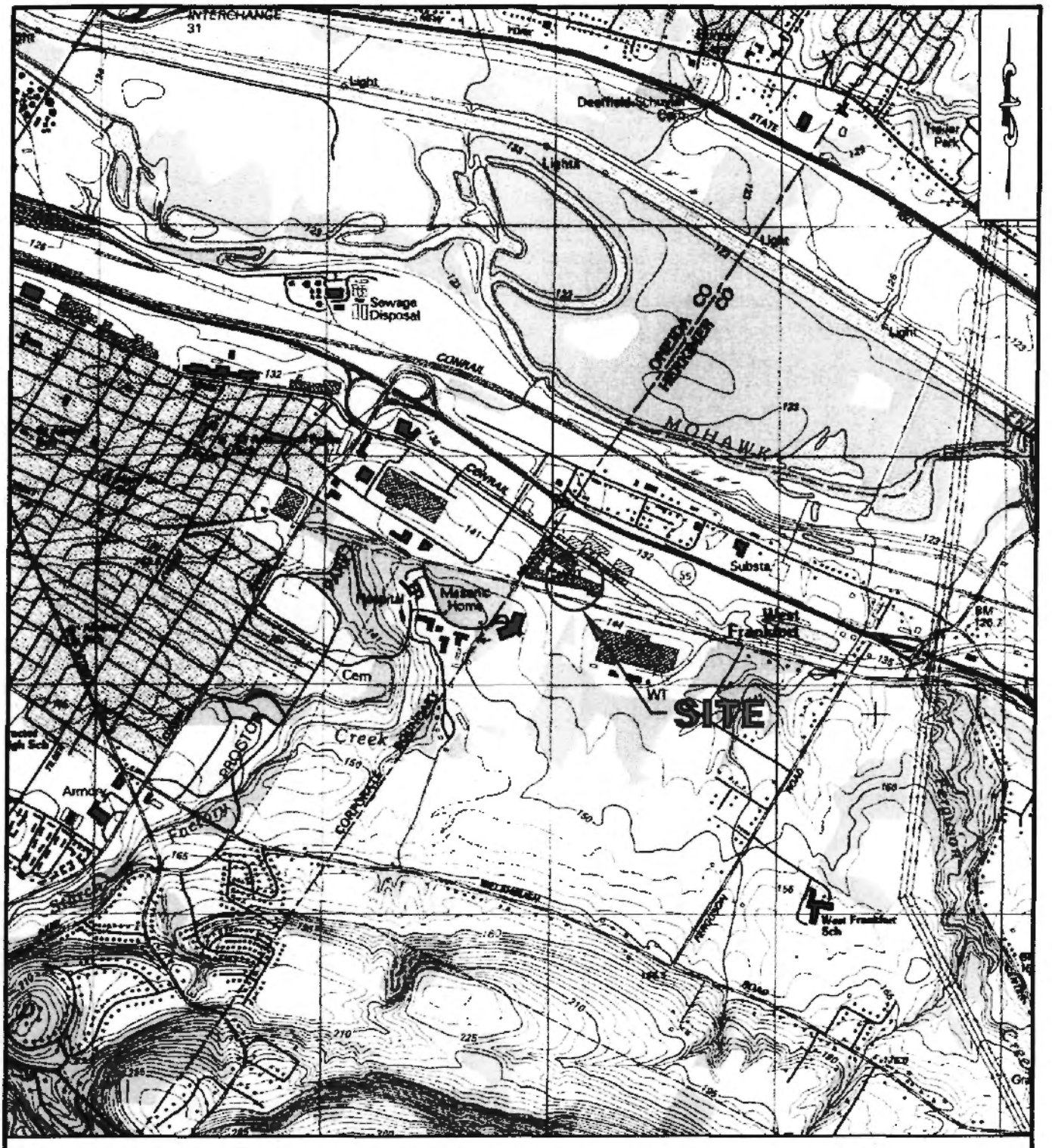
Please indicate your formal authorization for the removal action at the Charlestown Mall Site, as per current Delegation of Authority, by signing below.

APPROVAL: _____ **DATE:** 7/16/10
Walter E. Mugdan, Director
Emergency and Remedial Response Division

DISAPPROVAL: _____ **DATE:** _____
Walter E. Mugdan, Director
Emergency and Remedial Response Division

cc: *(after approval is obtained)*
W. Mugdan, ERRD-D
J. LaPadula, ERRD-DD
J. Rotola, ERRD-RAB
D. Harkay, ERRD-RAB
B. Grealish, ERRD-RAB
G. Zachos, ACSM/O
C. Peterson, ERRD-NYRB
T. Lieber, ORC-NYCSFB
P. Brandt, PAD
R. Manna, OPM-FMB
K. Giacobbe, OPM-GCMB
P. McKechie, OIG
T. Grier, 5202G
A. English, NYSDEC
A. Raddant, USDOI
G. Litwin, NYSDOH

L. Rosman, NOAA
C. Kelley, RST



SOURCE:

NEW YORK STATE GIS, USGS DIGITAL RASTER GRAPHIC QUADRANGLE, EAST UTICA, NEW YORK, 1983 (1: 24,000 SCALE–UTM ZONE 18, NAD 1927)

GRAPHIC SCALE

2000 1000 0 1000 2000

APPROXIMATE SCALE IN FEET

U.S. EPA REMOVAL ACTION
CHARLESTOWN MALL SITE
FRANKFORT, NY

WESTON SOLUTIONS

CONCORD NEW HAMPSHIRE

SITE LOCATION MAP	DRAWN TAC	DATE MAY 2010	W.O. NO. 20401.115.013
	SCALE AS SHOWN	REVISION 0	FIGURE NO. 1

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ATTACHMENT 1

Site Location Map
Site Layout

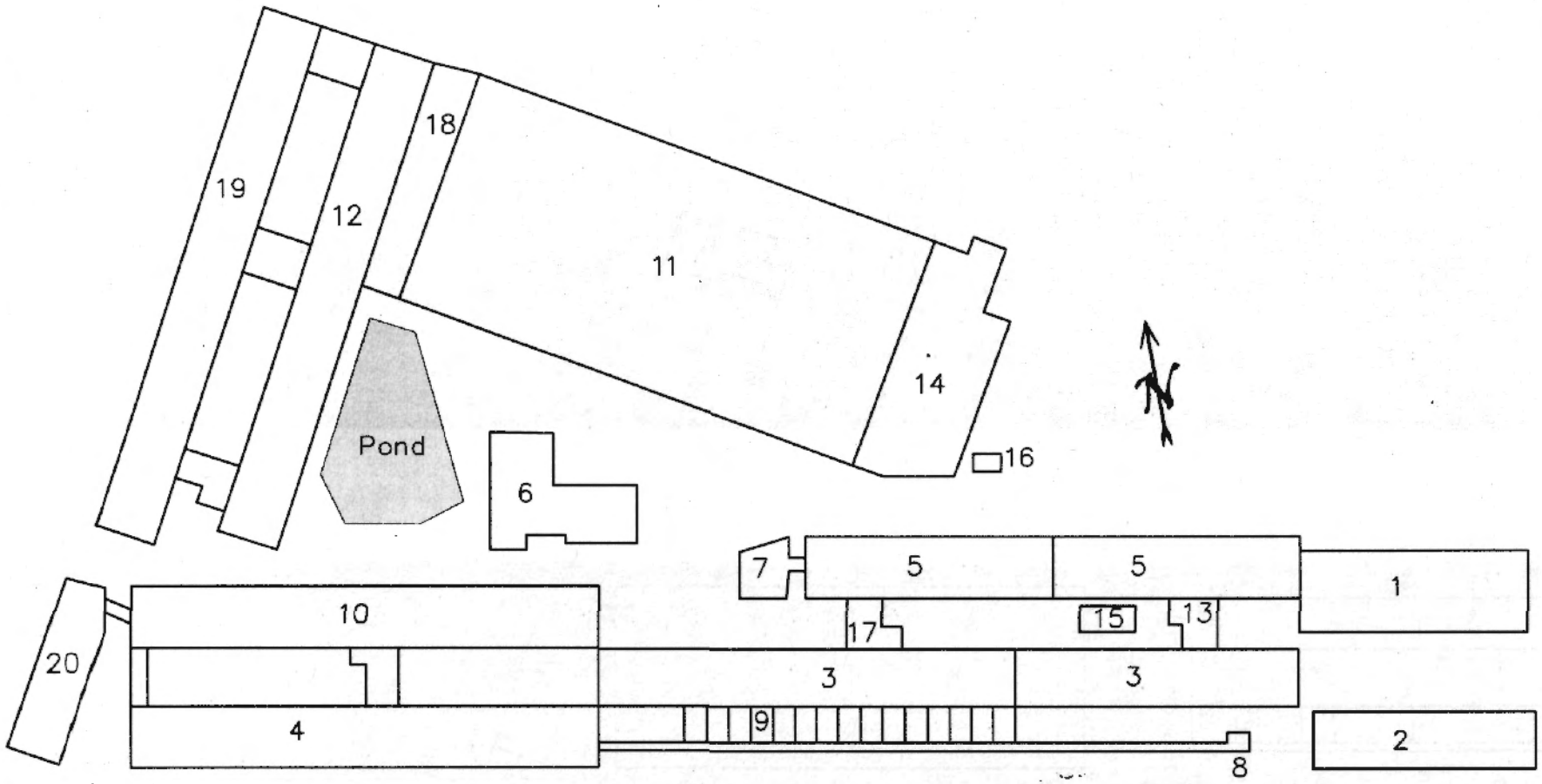


Figure 1 Building Layout Map

Charlestown Mall Site
2205 Bleeker Street, Village of Frankfort, NY

U.S. Environmental Protection Agency,
Region 2
Emergency and Remedial Response Division
Removal Action Branch
2890 Woodbridge Ave, Edison, New Jersey

ATTACHMENT 2

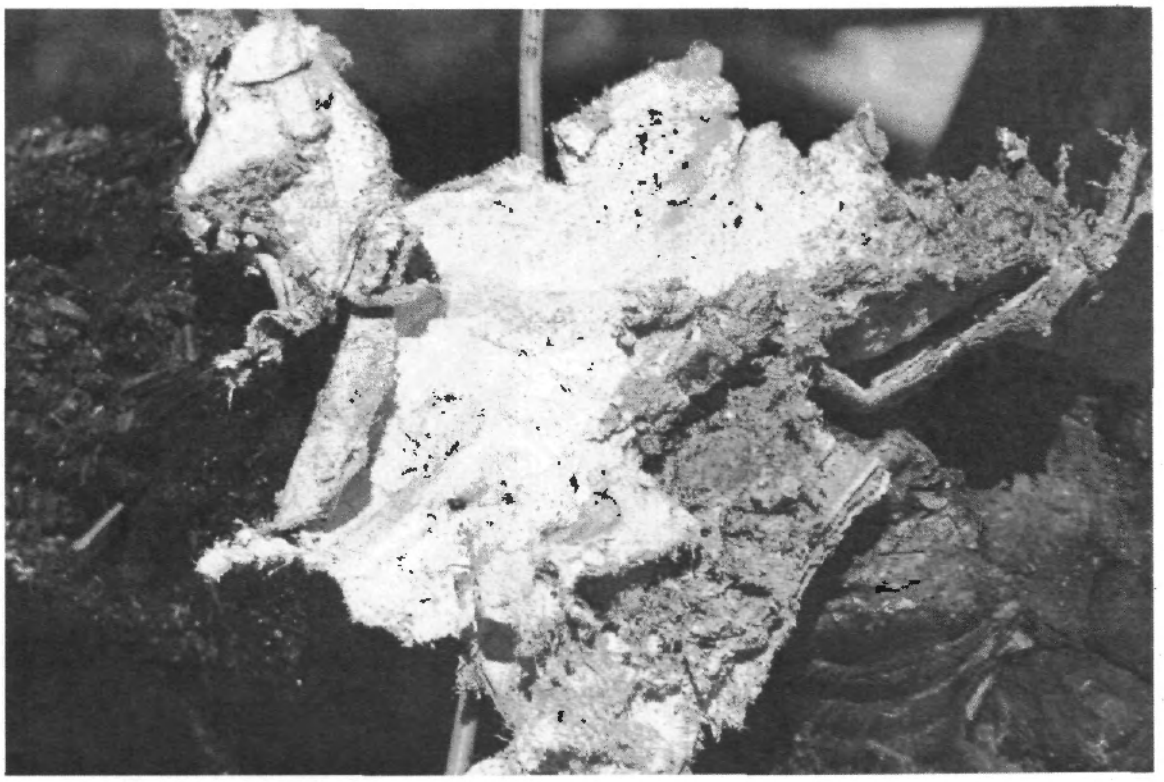
Photographic Documentation

Charlestown Mall Site – Photographic Documentation
Frankfort, NY

View facing East of the eastern half of former Building 3.

View facing West of the western half of former Building 3.

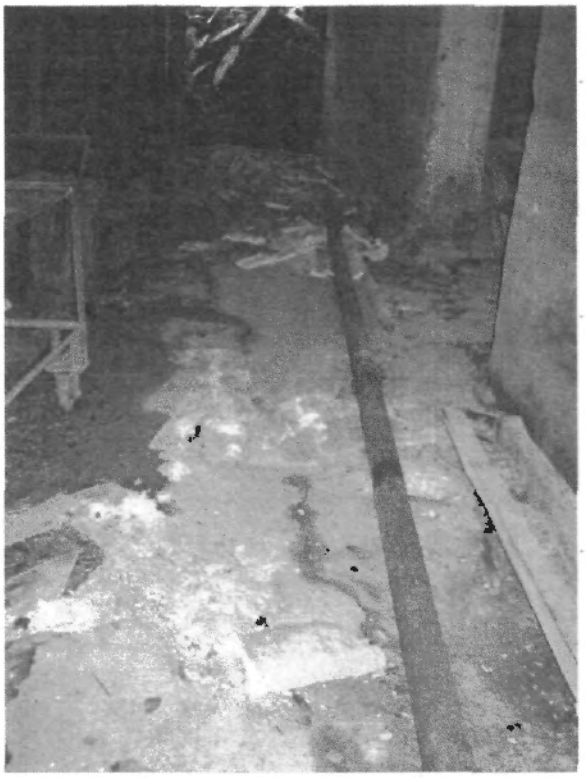
Charlestown Mall Site – Photographic Documentation
Frankfort, NY



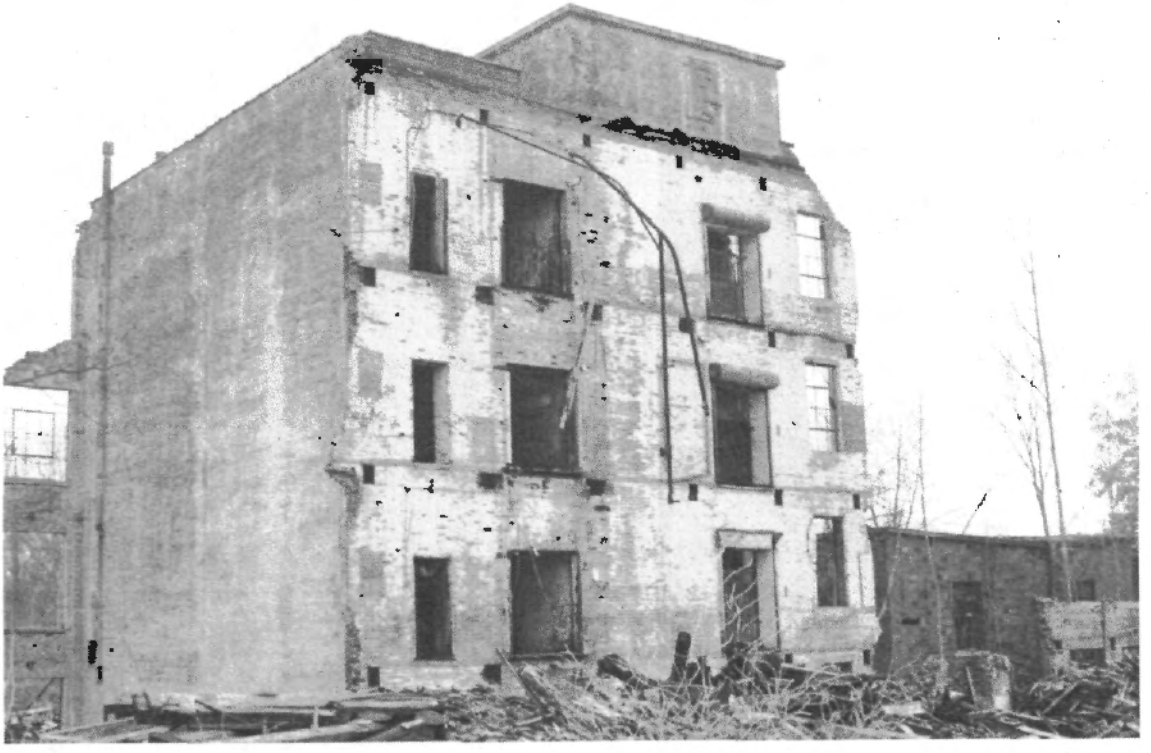
Asbestos containing material (ACM) identified in the Building 5 debris.

Overturned transformers in Building 15. PCB contaminated debris on the floor.

Charlestown Mall Site – Photographic Documentation
Frankfort, NY



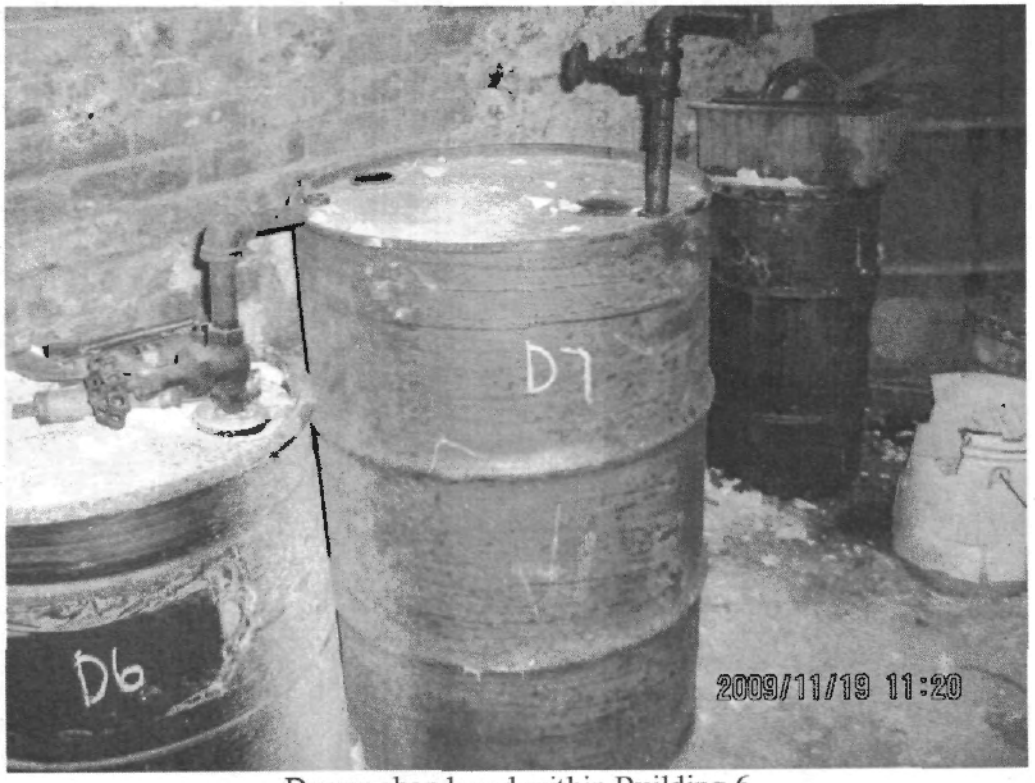
Asbestos insulation weathering on the floor of Building 13.



View facing southeast of building 13.

Charlestown Mall Site – Photographic Documentation
Frankfort, NY

View facing south of Building 5.



Drums abandoned within Building 6

ATTACHMENT 3

Asbestos Survey

ASBESTOS SURVEY REPORT

CHARLESTOWN COMPLEX
UTICA, NEW YORK

Project #8916

Prepared April 1998

Prepared For:

Gaetano Construction
311 Turner Street
Utica, New York 13501

Prepared By:

Jack Eisenbach Engineering, P.C.
291 Genesee Street
Utica, New York 13501

CHARLESTOWN COMPLEX
SURVEY REPORT

PROJECT #8916

The following report is a summary of the asbestos survey performed by Jack Eisenbach Engineering, P.C. (JEE) in connection with the demolition of the Charlestown Complex located in Utica, New York. The buildings scheduled to be surveyed were Buildings 3, 4, 5, 6, 7, 10, 11, 12, 14, 16, and 18.

Four transformer buildings were also surveyed. Transformer Building No. 1 is part of the Boiler House, Building 6; Transformer Building No. 2 is a standalone structure between Buildings 3 and 5; and Transformer Buildings No. 3 and 4 are attached to Building 12.

The inspection was performed and samples were collected by Anthony J. Scialdone (New York State Accredited Inspector, Number AH92-13654) and James S. Wheeler (New York State Accredited Inspector, Number AH89-01165 between February 26 and March 11, 1998.

The survey was performed in accordance with New York State Code Rule 56 regulations. All accessible suspect materials were sampled. Floor tiles laid over wood flooring and roofing materials were not sampled because they can be disposed of as construction debris during the demolition. These materials were assumed to contain asbestos. Friable samples collected were read using Polarized Light Microscopy (PLM). Non-friable organically bound samples were analyzed utilizing gravimetric reduction with Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM) confirmation of all PLM negatives. All samples were analyzed by Scientific Laboratories, Inc.

Building 3 was not surveyed due to unsafe conditions. It can be demolished under an applicable variance which will allow the demolition to occur without prior asbestos abatement. Buildings 5 and 7 were partially collapsed and not all areas were accessible. Only the accessible areas were surveyed.

Additionally, all light ballasts were counted in each building.

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Appendices

A	*SAMPLE LOG*
B	*FINDINGS - LISTING OF ASBESTOS CONTAINING MATERIALS IDENTIFIED*
C	*LABORATORY ANALYSIS RESULTS*
D	*DRAWINGS SHOWING*
	• *Sample locations*
E	*ACCREDITATIONS*

Jack Eisenbach Engineering, P.C.
291 Genesee Street, Utica, New York 13501
315-735-1916 Fax 315-735-6365

SAMPLE LOG

BUILDING 4

PROJECT: Charlestown Complex

PROJECT #: 8916

SAMPLE NUMBER	*RESULTS (+/-)*	*MATERIAL SAMPLED*	*SAMPLE LOCATION*
8916-4-01	+	Interior Window Caulk	1'x1' Windows - 4th Floor
8916-4-02	+	Interior Window Glazing	4th Floor
8916-4-03	+	Interior Window Caulk	4th Floor
8916-4-04	+	Aircell	4th Floor
8916-4-05	+	Mag Pipe Insulation	4th Floor
8916-4-06	+	Drop Ceiling Tile	4th Floor
8916-4-07	+	Duct Insulation	4th Floor
8916-4-08	+	Fitting on Fiberglass Pipe	3rd Floor
8916-4-09	-	Sheetrock	3rd Floor
8916-4-10	-	Joint Compound	3rd Floor
8916-4-11	-	Sheetrock	2nd Floor
8916-4-12	-	Interior Window Caulk	2nd Floor
8916-4-13	-	Interior Window Glazing	2nd Floor
8916-4-14	+	Exterior Window Caulk	2nd Floor
8916-4-15	-	Exterior Window Glazing	2nd Floor

Samples Collecte Anthony Scialdone

Accreditation No. AH-92-13654

NOTE:
- = Asbestos was NOT detected above the regulatory limit of 1% by weight.
+ = More than 1% asbestos by weight was detected.

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SAMPLE LOG

BUILDING 5, 7 & 16

PROJECT: Charlestown Complex PROJECT #: 8916

SAMPLE NUMBER	*RESULTS (+/-)*	*MATERIAL SAMPLED*	*SAMPLE LOCATION*
8916-5-01		Aircell Insulation	1st Floor Hall
8916-5-02		Mag Insulation	1st Floor Hall
8916-5-03		Interior Window Glazing	1st Floor
8916-5-04		Exterior Window Glazing	1st Floor
8916-7-01		Wall Plaster	1st Floor
8916-7-02		Mag Insulation	1st Floor
8916-7-03		Fitting Insulation	3rd Floor
8916-7-04		Interior Window Glazing	1st Floor
8916-7-05		Interior Window Caulk	1st Floor
8916-7-06		Aircell Insulation	
8916-7-07		Exterior Door Caulk	
8916-7-08		Door Window Glazing	
8916-7-09		9"x9" Floor Tile	
8916-7-09M		9"x9" Floor Tile Mastic	1st Floor
8916-7-010		Exterior Window Glazing	
8916-16-01			Building #16
8916-16-02			Building #16

Samples Collecte Anthony Scialdone

Accreditation No. AH-92-13654

NOTE:
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SAMPLE LOG

BUILDING 6

PROJECT: Charlestown Complex PROJECT #: 8916

SAMPLE NUMBER	*RESULTS (+/-)*	*MATERIAL SAMPLED*	*SAMPLE LOCATION*
8916-6-01	+	Boiler Packing	Boiler #2
8916-6-02	-	Packing Cement	Boiler #2
8916-6-03	-	Firebrick in Boiler	Boiler #2
8916-6-04	-	Packing in Boiler Peephole	Boiler #2
8916-6-05	+	Gasket Around Opening	Boiler #1
8916-6-06	+	Pipe Insulation	Boiler Room
8916-6-07	+	Fitting Insulation	Boiler Room
8916-6-08	+	Breeching	Boiler Room
8916-6-09	-	Brick Mortor	Boiler #3
8916-6-10	+	Heat Exchanger Inc.	Boiler Room
8916-6-11	+	Mag Pipe Insulation	Backup Generator Room
8916-6-12	-	Interior Window Caulk	Backup Generator Room
8916-6-13	-	Interior Window Glazing	Backup Generator Room
8916-6-14	+	Exterior Door Frame Caulk	
8916-6-15	+	Wall Plaster	Bathroom
8916-6-16	+	Ceiling Plaster	Bathroom
8916-6-17	-	Wall Plaster	Pump Room
8916-6-18	-	Transite Panel	Transformer Room
8916-6-19	-	Exterior Window Caulk	
8916-6-20	+	Exterior Window Glazing	
8916-6-21	+	Boiler Packing Insulation	Front of Boiler #1

Samples Collected Anthony Scialdone

Accreditation No. AH-92-13654

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SAMPLE LOG

BUILDING 10

PROJECT: Charlestown Complex

PROJECT #: 8916

SAMPLE NUMBER	*RESULTS (+/-)*	*MATERIAL SAMPLED*	*SAMPLE LOCATION*
8916-PR-01	+	Interior Window Glazing	North Transformer Bldg.
8916-PR-02	-	Wiring	South Transformer Bldg.
8916-10-01	+	Interior Window Glazing	2nd Floor
8916-10-02	-	Interior Window Caulk	2nd Floor
8916-10-03	-	Sheetrock	3rd Floor
8916-10-04	-	Joint Compound	2nd Floor
8916-10-05	+	Interior Window Glazing	3rd Floor
8916-10-06	+	Interior Window Caulk	3rd Floor
8916-10-07	-	Sheetrock	3rd Floor
8916-10-08	-	Joint Compound	3rd Floor
8916-10-09	+	Fitting Insulation	4th Floor
8916-10-10	-	2'x4' Ceiling Tile	4th Floor
8916-10-11	+	Mag Pipe Insulation	4th Floor
8916-10-12	+	Exterior Window Caulk	
8916-10-13	+	Exterior Window Glazing	
8916-10-14	+	Exterior Door Caulk	

Samples Collecte Anthony Scialdone

Accreditation No. AH-92-13654

NOTE:
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SAMPLE LOG

BUILDING 11

PROJECT: Charlestown Complex

PROJECT #: 8916

SAMPLE NUMBER	*RESULTS (+/-)*	*MATERIAL SAMPLED*	*SAMPLE LOCATION*
8916-11-01	+	Transite Table	Welding Equipment Room
8916-11-02	-	Firebrick	Welding Equipment Room
8916-11-03	-	Sheetrock	Welding Room
8916-11-04	-	Joint Compound	Car Storage
8916-11-05	+	9"x9" Floor Tile	Boat Storage
8916-11-05M	+	9"x9" Floor Tile Mastic	Boat Storage
8916-11-06	-	Vapor Barrier	Boat Storage
8916-11-07	+	Pipe Insulation	Boat Storage
8916-11-08	-	Fiberglass Flooring	Large Equipment Storage
8916-11-09	+	Window Caulk	Large Equipment Storage
8916-11-10	+	Window Glazing	Large Equipment Storage
8916-11-11	+	Transite Table	Large Equipment Storage
8916-11-12	-	Fitting Insulation	Boat Storage
8916-11-13	+	Exterior Window Glazing	Outside
8916-11-14	+	Exterior Window Caulk	Outside
8916-11-15	+	Door Frame Caulk	Outside Car Storage Ent.
8916-11-16	-	Sheetrock	Rm off Car Storage
8916-11-17	+	Exterior Fitting	Outside Car Storage Ent.
8916-11-18	-	Sheetrock	Hall
8916-11-19	-	Concrete Ceiling	Hannibal Storage
8916-11-22	-	Joint Compound	Hall
8916-11-23	-	Joint Compound	Car Storage
8916-11-25	-	Concrete Ceiling	Hannibal Office

Samples Collected Anthony Scialdone

Accreditation No. AH-92-13654

NOTE:
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SAMPLE LOG

BUILDING 12

PROJECT: Charlestown Complex

PROJECT #: 8916

SAMPLE NUMBER	RESULTS (+/-)	MATERIAL SAMPLED	SAMPLE LOCATION
8916-12-01	+	Interior Window Glazing	Charlie G Bar
8916-12-02	-	Interior Window Caulk	Charlie G Bar
8916-12-03	+	Aircell Pipe Insulation	Charlie G Office
8916-12-04	-	Joint Compound	Charlie G Kitchen
8916-12-05	-	Sheetrock	Charlie G Kitchen
8916-12-06	-	Joint Compound	Charlie G Office
8916-12-07	-	Sheetrock	Charlie G Office
8916-12-08	+	Exterior Window Caulk	Charlie G Dining Rm
8916-12-09	+	Exterior Window Glazing	Charlie G Dining Rm
8916-12-10	+	Packing Material in Lights	Bar
8916-12-11	-	Interior Window Glazing	4th Floor
8916-12-12	+	Interior Window Caulk	4th Floor
8916-12-13	+	Fitting Insulation	Middle Rm - 4th Floor
8916-12-14	-	Sheetrock	4th Floor
8916-12-15	-	2'x4' Ceiling Tile	4th Floor
8916-12-16	+	Exterior Door Caulk	1st Floor
8916-12-17	+	Exterior Window Caulk	1st Floor
8916-12-18	+	Exterior Window Glazing	1st Floor

Samples Collected Anthony Scialdone

Accreditation No. AH-92-13654

NOTE:
- = Asbestos was NOT detected above the regulatory limit of 1% by weight.
+ = More than 1% asbestos by weight was detected.

CHARLESTOWN COMPLEX
SURVEY REPORT

FINDINGS

1. **Building 3**

Building 3 was unsafe because of the roof and free standing brick walls had collapsed. It was not surveyed.

2. **Building 4**

Building 4 is a four-story structure and all areas were accessed. Materials which tested positive for asbestos in Building 4 were window caulking, window glazing, pipe and fitting insulation, 2'X4' drop ceiling tiles, and duct insulation. Below is a listing of asbestos containing materials by floor. Also included in the listing is a light ballast count and floor tile and mastic.

LOCATION	MATERIAL	APPROXIMATE AMOUNT	
First Floor	Pipe Insulation	1,580	Linear Feet
	Light Ballasts	165	Lights
Second Floor	Pipe Insulation	25	Linear Feet
	Fittings on Fiberglass Pipes	5	Fittings
	Floor Tile and Mastic	1,900	Square Feet
	Light Ballasts	45	Lights
Third Floor	Pipe Insulation	100	Linear Feet
	Fittings on Fiberglass Pipes	18	Fittings
	Floor Tile and Mastic	1,900	Square Feet
	Light Ballasts (Hanging)	164	Lights
	Light Ballasts (Piled on ground)	10	Lights
Fourth Floor	Pipe Insulation	180	Linear Feet
	Duct Insulation	25	Square Feet
	Floor Tile and Mastic	5,600	Square Feet
	Ceiling Tiles (Piled on ground)	40	Tiles
	Light Ballasts	310	Lights
Throughout Building	Window Caulk and Glazing		Throughout
Roof	Roofing		Throughout

3. **Building 5**

Building 5 is a four-story structure with most areas accessible. The top two floors were only 75% accessible due to a partially collapsed roof. Materials which tested positive for asbestos in Building 5 were floor tile and mastic, door caulk, window glazing, and pipe and fitting insulation. There was also a transite board in the electrical room on the roof, which was not sampled but assumed to contain asbestos. The building also has an underground tunnel leading to Building 11. The tunnel has asbestos containing pipe and fitting insulation throughout.

Due to the collapsed roof, there is heavy water damage throughout the building. As a result, much of the pipe insulation is severely damaged and debris has fallen to the floor. There are approximately 150 bags of asbestos containing floor tile that are stored on the second floor of this building.

Below is a listing of asbestos containing materials and light ballast count by floor.

LOCATION	MATERIAL	APPROXIMATE AMOUNT	
First Floor	Floor Tile and Mastic	1,050	Square Feet
	Pipe Insulation (Intact)	1,475	Linear Feet
	Pipe Insulation Asbestos Debris		Throughout
	Light Ballasts	130	Lights
Second Floor	Pipe Insulation	100	Linear Feet
	Bags Containing Floor Tile	150	Bags
	Floor Tile/Mastic	1,000	Square Feet
	Light Ballasts (Intact)	142	Lights
	Light Ballasts (In piles)	100	Lights
Third Floor	Pipe Insulation (Intact)	900	Linear Feet
	Pipe Insulation Asbestos Debris		Throughout
	Light Ballasts	112	Lights
Fourth Floor	Pipe Insulation (Intact)	390	Linear Feet
	Pipe Insulation Asbestos Debris		Throughout
	Floor Tile/Mastic	4,950	Square Feet
	Light Ballasts	6	Lights
On Roof	Transite Board (Electrical Room)	18	Square Feet
Throughout Building	Door Caulk		Throughout
	Window Glazing		
Tunnel to Bldg. 11	Pipe Insulation	100	Linear Feet
Roof	Roofing		Throughout

4. **Building 6**

Building 6 is the former boiler house. It is a one-story structure and all areas were accessible. The building also has three underground tunnels that lead to Buildings 4, 7, and 11. Materials which tested positive for asbestos in Building 6 were boiler packing, boiler gaskets, wall and ceiling plaster, heat exchanger insulation, pipe and fitting insulation, boiler breeching, exterior window glazing and exterior door frame caulking.

Pipe insulation was found and quantified in the tunnel to Building 7. Pipe insulation could be seen in the tunnel to Building 11, but because it was collapsed and unsafe, it could not be quantified. The tunnel to Building 4 was blocked off at both ends, but it is assumed that pipe insulation exists in it. Below is a listing of asbestos containing materials and a light ballast count.

LOCATION	MATERIAL	APPROXIMATE AMOUNT
Boiler Room	Boiler Packing (on all 3 boilers)	200 Square Feet
	Boiler Gaskets (on boilers and in storage cabinet)	100 Square Feet
	Pipe Insulation	1,600 Linear Feet
	Breeching	2,000 Square Feet
	Heat Exchanger Insulation	250 Square Feet
Generator Room	Pipe Insulation	375 Linear Feet
Transformer Bldg. No. 1	Asbestos Wiring	3 Linear Feet
	Transite Electrical Panels	10 Square Feet
Water Pump Room	Pipe Insulation	125 Linear Feet
Bathroom	Wall/Ceiling Plaster	205 Square Feet
Throughout	Light Ballasts	69 Lights
Outside Building	Breeching (on ground and intact)	400 Square Feet
	Pipe Insulation	150 Linear Feet
	Door Frame Caulk	10 Linear Feet
	Exterior Window Glazing	Throughout
Tunnel to Bldg. 7	Pipe Insulation	900 Linear Feet
	Light Ballasts	2 Lights
Tunnel to Bldg. 11	Pipe Insulation	Unknown
Tunnel to Bldg. 4	Pipe Insulation (assumed)	Unknown
Roof	Roofing	Throughout

5. **Building 7**

Building 7 is a four-story structure and most areas were accessible. However, there were areas on the top two floors where the roof and walls were partially collapsed. Materials which tested positive for asbestos in Building 7 were window glazing and pipe and fitting insulation.

The entire building has been heavily water damaged due to the collapsed roof. As a result, the pipe insulation has become severely damaged and debris has fallen to the ground.

Below is a listing of asbestos containing materials by floor. Also included in the listing is a light ballast count

LOCATION	MATERIAL	APPROXIMATE AMOUNT	
First Floor	Pipe Insulation (Intact)	356	Linear Feet
	Pipe Insulation Asbestos Debris		Throughout
	Light Ballasts	3	Lights
Second Floor	Pipe Insulation (Intact)	6	Linear Feet
	Pipe Insulation Asbestos Debris		Throughout
	Light Ballasts	15	Lights
Third Floor	Pipe Insulation (Intact)	360	Linear Feet
	Pipe Insulation Asbestos Debris		Throughout
	Light Ballasts	14	Lights
Fourth Floor	Pipe Insulation (Intact)	10	Linear Feet
	Pipe Insulation Asbestos Debris		Throughout
	Floor Tile/Mastic	500	Square Feet
	Light Ballasts	10	Lights
Outside Building	Window Glazing		Throughout
Roof	Roofing		Throughout

6. **Building 10**

Building 10 is a four-story structure and most areas were accessible. Materials which tested positive for asbestos in Building 10 were pipe and fitting insulation, window caulk, and window glazing. Below is a listing of asbestos containing materials by floor. Also included in the listing is a light ballast count

LOCATION	MATERIAL	APPROXIMATE AMOUNT
First Floor	Pipe Insulation	1,220 Linear Feet
	Light Ballasts	105 Lights
Second Floor	Pipe Insulation	975 Linear Feet
	Light Ballasts	163 Lights
Third Floor	Pipe Insulation	945 Linear Feet
	Light Ballasts	163 Lights
Fourth Floor	Pipe Insulation	775 Linear Feet
	Light Ballasts	215 Lights
Throughout Building	Window Caulk/Glazing	Throughout
Roof	Roofing	Throughout

7. **Buildings 11, 14 and 18**

Buildings 11, 14, and 18 are a one-story interconnected structure and all areas were easily accessible. Materials which tested positive for asbestos were pipe and fitting insulation, floor tile and mastic, window caulk and glazing, transite table tops, and exterior door frame caulk.

There were several pipes in Building 11 that were uninsulated but still had asbestos containing debris on them.

Building 14 has a ceiling that is two floors tall, and both floors contain windows. Also, a box of asbestos gaskets was identified.

Below is a listing of asbestos containing materials and light ballast count.

LOCATION	MATERIAL	APPROXIMATE AMOUNT
Building 11	Transite Table (Welding Area)	25 SQ FT
	Floor Tile and Mastic	2,000 SQ FT
	Pipe Insulation	440 Linear Feet
	Pipe Insulation w/pipe debris	300 Linear Feet
Building 14	Transite Table	25 SQ FT
	Asbestos Gaskets	1 Box
All 3 Buildings	Light Ballasts	400 Lights
Throughout Buildings	Window Caulk/Glazing	Throughout
	Door Frame Caulk	Throughout
Exterior	Fitting (Fiberglass line - Bldg. 11)	2 Fittings
	Pipe Insulation (Outside Bldg. 14)	50 Linear Feet
Roof	Roofing	Throughout

8. **Building 12**

Building 12 is a four-story structure and most areas were accessible. There were several rooms that were being used for storage that were padlocked and could not be accessed. However, most areas adjacent to locked rooms were open and we could assume what suspect materials were in the locked areas. Transformer Buildings 3 and 4 are attached to Building 12.

Materials which tested positive for asbestos in Building 12 were pipe and fitting insulation, window caulk and glazing, light packing material, and exterior door caulk. Below is a listing of asbestos containing materials by floor. Also included in the listing is a light ballast count and floor tile and mastic.

LOCATION	MATERIAL	APPROXIMATE AMOUNT
First Floor	Pipe Insulation	650 Linear Feet
	Light Ballasts	130 Lights
	Light Packing Insulation (In the Restaurant Bar)	20 Lights
Second Floor	Pipe Insulation	1,065 Linear Feet
	Fittings (On Fiberglass Lines)	76 Fittings
	Floor Tile/Mastic	500 Square Feet
	Light Ballasts	246 Lights
Third Floor	Pipe Insulation	1,150 Linear Feet
	Light Ballasts	240 Lights
Fourth Floor	Pipe Insulation	1,150 Linear Feet
	Floor Tile/Mastic	3,000 Square Feet
	Fittings (On Fiberglass Lines)	93 Fittings
	Fittings (On cut pipes on ground)	20 Fittings
	Light Ballasts	250 Lights
Throughout Building	Exterior Window Caulk/Glazing	Throughout
	Interior Window Caulk/Glazing	Throughout
	Exterior Door Caulk	Throughout
Transformer Buildings 3 and 4	Interior Window Glazing	Throughout
Roof	Roofing	Throughout

9. **Building 16**

Building 16 is a small one-story garage. The asbestos containing material identified in this building is pipe insulation. There is approximately 10 linear feet of pipe insulation inside the building, and 50 linear feet outside the building.

10. **Transformer Building No. 2**

Tranformer Building No. 2 is a small one-story structure. The asbestos containing material identified in this building is window glazing.

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 Fax 212/679-9392

RECEIVED
MAR 23 1998

March 14, 1998

JACK EISENBACH ENGINEERING, P.C.
Attn: Mr. Eisenbach
291 Genesee Street
Utica, NY 13501

RE: JACK EISENBACH ENGINEERING, P.C.
Job Number 98035939
P.O. # 8916
8916; Charlestown; Building #4

Dear Mr. Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following JACK EISENBACH ENGINEERING, P.C. samples, received at Scientific Laboratories on Thursday, March 12, 1998, for a 3 day turnaround:

8916-4-01, 8916-4-02, 8916-4-03, 8916-4-04, 8916-4-05, 8916-4-06, 8916-4-07, 8916-4-08, 8916-4-09, 8916-4-10, 8916-4-11, 8916-4-12, 8916-4-13, 8916-4-14, 8916-4-15

The 15 samples, placed in zip lock bag, were shipped to SciLab via Hand Delivered. JACK EISENBACH ENGINEERING, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses performed under ELAP 198.1 & 198.4 guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in the TEM report in the Appendix. Complete PLM results for individual samples are presented in the Appendix of this combined report. This report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul Mucha

Paul Mucha
Laboratory Supervisor

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/12/98
Date Examined 3/13/98
ELAP Number 11480
RE: 8916; Charlestown; Building #4

SciLab Job No. 98035939
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-4-01	98035939-01	*Yes*	4.1 %

Location: 1x1 Windows, Fouth Floor

Description: Grey, Homogeneous, Interior Window Caulk
Asbestos Types: Chrysotile 4.1 %
Other Material: Non-fibrous 37.6 %

Comment: PLM Analysis Of NOB Inert Residue

8916-4-02	98035939-02	*Yes*	≤ 1. %

Location: 4th Floor

Description: Grey, Homogeneous, Interior Window Glazing
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous >73.1 %

Comment: PLM Analysis Of NOB Inert Residue

8916-4-03	98035939-03	*Yes*	≤ 1. %

Location: 4th Floor

Description: Grey, Homogeneous, Interior Window Caulk
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous 70.6 %

Comment: PLM Analysis Of NOB Inert Residue

8916-4-04	98035939-04	*Yes*	57 %

Location: 4th Floor

Description: Off White, Homogeneous, Aircell
Asbestos Types: Chrysotile 57. %
Other Material: Non-fibrous 43. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/12/98
Date Examined 3/13/98
ELAP Number 11480
RE: 8916; Charlestown; Building #4

SciLab Job No. 98035939
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-4-05	98035939-05	*Yes*	44 %

Location: 4th Floor

Description: Off White, Homogeneous, Mag Pipe Insulation
Asbestos Types: Amosite 44. %
Other Material: Non-fibrous 56. %

8916-4-06	98035939-06	*Yes*	3.7 %

Location: 4th Floor

Description: Off White, Homogeneous, Drop Ceiling Tile
Asbestos Types: Chrysotile 3.7 %
Other Material: Fibrous glass 70. %, Non-fibrous 26.3 %

8916-4-07	98035939-07	*Yes*	66 %

Location: 4th Floor

Description: Grey, Homogeneous, Duct Insulation
Asbestos Types: Chrysotile 66. %
Other Material: Non-fibrous 34. %

8916-4-08	98035939-08	*Yes*	66 %

Location: 3rd Floor

Description: Beige, Homogeneous, Fitting on FG Pipe
Asbestos Types: Chrysotile 66. %
Other Material: Non-fibrous 34. %

8916-4-09	98035939-09	*No*	NAD

Location: 3rd Floor

Description: Off White, Homogeneous, Sheetrock
Asbestos Types:
Other Material: Cellulose 15. %, Fibrous glass 5. %, Non-fibrous 80. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/12/98
Date Examined 3/13/98
ELAP Number 11480
RE: 8916; Charlestown; Building #4

SciLab Job No. 98035939
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-4-10	98035939-10	*No*	NAD

Location: 3rd Floor

Description: White, Homogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-4-11	98035939-11	*No*	NAD

Location: 3rd Floor

Description: White, Homogeneous, Sheetrock
Asbestos Types:
Other Material: Cellulose 15. %, Fibrous glass 3. %, Non-fibrous 82. %

8916-4-12	98035939-12	*Yes*	≤ 1. %

Location: 2nd Floor

Description: Grey, Homogeneous, Interior Window Caulk
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 69.2 %
Comment: PLM Analysis Of NOB Inert Residue

8916-4-13	98035939-13	*No*	NAD

Location: 2nd Floor

Description: Grey, Homogeneous, Interior Window Glazing
Asbestos Types:
Other Material: Non-fibrous 48.1 %
Comment: PLM Analysis Of NOB Inert Residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/12/98
Date Examined 3/13/98
ELAP Number 11480
RE: 8916; Charlestown; Building #4

SciLab Job No. 98035939
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-4-14	98035939-14	*Yes*	10.8 %

Location: Exterior Window

Description: Grey, Homogeneous, Exterior Window Caulk
Asbestos Types: Chrysotile 10.8 %
Other Material: Non-fibrous 39.6 %

Comment: PLM Analysis Of NOB Inert Residue

8916-4-15	98035939-15	*No*	NAD

Location: Exterior Window

Description: Grey, Homogeneous, Exterior Window Glazing
Asbestos Types:
Other Material: Non-fibrous 48.2 %

Comment: PLM Analysis Of NOB Inert Residue

Reporting Notes:

Analyzed by: Bella Chernis Paul Hurke for BC

*NAD/NSD = no asbestos detected; NA = not analyzed; NAPS = not analyzed positive stop; Bulk Asbestos Analysis per 40 CFR 763, Subpart F, Appendix A and ELAP Analysis Protocols 198.1/198.4 for NY samples; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in NY State (see also EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This report relates ONLY to the items tested. ELAP #11480, Vt. Cert. #AL016055

Reviewed By: Paul Hurke

SciLab Job#: **98-03-5939**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Building #4

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
01	8916-4-01 1x1 Windows, Fouth Floor		0.453	24.06	34.22	37.62	Chrysotile 4.1	NA
02	8916-4-02 4th Floor		0.95	9.26	17.58	65.84	Chrysotile <1.	Chrysotile 7.32
03	8916-4-03 4th Floor		1.085	17.05	12.26	67.16	Chrysotile <1.	Chrysotile 3.53
04	8916-4-04 4th Floor		---	---	---	---	Chrysotile 57.	NA
05	8916-4-05 4th Floor		---	---	---	---	Amosite 44.	NA
06	8916-4-06 4th Floor		---	---	---	---	Chrysotile 3.7	NA
07	8916-4-07 4th Floor		---	---	---	---	Chrysotile 66.	NA
08	8916-4-08 3rd Floor		---	---	---	---	Chrysotile 66.	NA

Reviewed by: _____

PLM analyst: Bella Chernis_____; TEM analyst: Lance Tuckruskye Lance Tuckruskye

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: Lance Tuckruskye

SciLab Job#: **98-03-5939**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Building #4

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
09	8916-4-09 3rd Floor		----	----	----	----	NAD	NA
10	8916-4-10 3rd Floor		----	----	----	----	NAD	NA
11	8916-4-11 3rd Floor		----	----	----	----	NAD	NA
12	8916-4-12 2nd Floor		0.748	14.30	16.44	69.25	Chrysotile Trace	Chrysotile Trace
13	8916-4-13 2nd Floor		0.823	24.30	27.58	48.12	NAD	NAD
14	8916-4-14 Exterior Window		0.797	30.49	19.07	39.64	Chrysotile 10.8	NA
15	8916-4-15 Exterior Window		0.792	30.93	20.83	48.23	NAD	NAD

Reviewed by: _____

PLM analyst: Bella Chernis_____; TEM analyst: Lance Tuckruskye Lance Tuckruskye

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: Lance Tuckruskye

98035939

JACK EISENBACH ENGINEERING, P.C.

291 GENESEE STREET, UTICA, NEW YORK 13501 • 315•735•1916 • FAX 315•735•6365

CLIENT: CHARLESTOWN

ADDRESS:

LABORATORY: SCI LAB

PROJECT #: 8916

DATE(S) COLLECTED: 3/11/98

SAMPLES COLLECTED BY: TONY SCIALDONE

TYPE of ANALYSIS

ASBESTOS BULK	
PLM Only	
TEM Only	
PLM/ TEM As Required By ELAP	X

ASBESTOS AIR	
PCM	
TEM AHERA	
TEM NIOSH 7402	

LEAD	
AA NIOSH 7082	

TURNAROUND TIME

RUSH		72 Hour	X	OTHER	

CHAIN OF CUSTODY

	PRINTED NAME	SIGNATURE	AFFILIATION	DATE	# OF SAMPLES
REMITTED BY:	Tony Scialdone	[signature]	JEE	3/11/98	15
RECEIVED BY:	A. Lopez	[signature]	Sci Lab.	3/12/98	12:00

REMITTED BY:

RECEIVED BY:

REMITTED BY:

RECEIVED BY:

PLEASE FAX RESULTS ASAP TO (315) 735 - 6365, ATTN: TONY

NOTES:

Jack Eisenbach Engineering, P.C.
291 Genesee Street, Utica, New York 13501
315-735-1916 Fax 315-735-6365

SAMPLE LOG

PROJECT: Charlestown - Bldg. #4

PROJECT #: 8916

SAMPLE NUMBER	HOMO ID #	RESULTS (+/-)	MATERIAL SAMPLED	SAMPLE LOCATION
8916-4-01			INT. WINDOW CAULK	1x1 WINDOWS - 4th FLOOR
-02			INT. WINDOW GLAZING	4th FLOOR
-03			INT. WINDOW CAULK	4th FLOOR
-04			AIRCELL	4th FLOOR
-05			MAG. PIPE INSULATION	4th FLOOR
-06			DROP CEILING TILE	4th FLOOR
-07			DUCT INSULATION	4th FLOOR
-08			FITTING ON F.G. PIPE	3RD FLOOR
-09			SHEETROCK	3RD FLOOR
-10			JOINT COMPOUND	3RD FLOOR
-11			SHEETROCK	2ND FLOOR
-12			INT. WINDOW CAULK	~~[illegible]~~ 2ND FLOOR
-13			INT. WINDOW GLAZING	2ND FLOOR
-14			EXT. WINDOW CAULK	—
-15			EXT. WINDOW GLAZING	—

Samples Collected By: Tony Scialdone

Accreditation No: AH92-13654

SciLab

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 Fax 212/679-9392

March 8, 1998

JACK EISENBACH ENGINEERING, P.C.
Attn: Mr. Eisenbach
291 Genesee Street
Utica, NY 13501

RE: JACK EISENBACH ENGINEERING, P.C.
Job Number 98035425
P.O. # 8916
8916; Charlestown; Buildings 5, 7, & 16

Dear Mr. Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following JACK EISENBACH ENGINEERING, P.C. samples, received at Scientific Laboratories on Thursday, March 5, 1998, for a 3 day turnaround:

8916-16-01, 8916-16-02, 8916-5-001, 8916-5-002, 8916-5-003, 8916-5-004, 8916-7-001, 8916-7-002, 8916-7-003, 8916-7-004, 8916-7-005, 8916-7-006, 8916-7-007, 8916-7-008, 8916-7-009T, 8916-7-009M, 8916-7-010

The 17 samples, placed in zip lock bag, were shipped to SciLab via Federal Express. JACK EISENBACH ENGINEERING, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses performed under ELAP 198.1 & 198.4 guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in the TEM report in the Appendix. Complete PLM results for individual samples are presented in the Appendix of this combined report. This report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul Mucha
Laboratory Supervisor

NOTE: Sample Results for Bldg. 5 are actually for Bldg. 7. And Bldg. 7 should be Bldg. 5 too.

SciLab

MAR 12 1998

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

SciLab Job No. 98035425
P.O. # 8916

RE: 8916; Charlestown; Buildings 5, 7, & 16

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-16-01	98035425-01	*Yes*	13 %

Location: Building #16

Description: Grey, Homogeneous, Mag Insulation
Asbestos Types: Amosite 13. %
Other Material: Non-fibrous 87. %

8916-16-02	98035425-02	*Yes*	≤ 1. %

Location: Building #16

Description: Grey, Homogeneous, Door Window Glazing
Asbestos Types: Anthophyllite Trace
Other Material: Non-fibrous 0.2 %
Comment: PLM Analysis Of NOB Inert Residue

8916-5-001	98035425-03	*Yes*	40 %

Location: 1st Floor Hall

Description: Grey, Homogeneous, Insulation - Aircell
Asbestos Types: Chrysotile 40. %
Other Material: Cellulose 5. %, Non-fibrous 55. %

8916-5-002	98035425-04	*Yes*	14 %

Location: 1st Floor Hall

Description: Grey, Homogeneous, Mag Insulation
Asbestos Types: Amosite 14. %
Other Material: Non-fibrous 86. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

SciLab Job No. 98035425
P.O. # 8916

RE: 8916; Charlestown; Buildings 5, 7, & 16

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-5-003	98035425-05	*No*	NAD

Location: 1st Floor

Description: Grey, Homogeneous, Interior Window Glazing
Asbestos Types:
Other Material: Non-fibrous 3.9 %
Comment: PLM Analysis Of NOB Inert Residue

8916-5-004	98035425-06	*Yes*	≤ 1. %

Location: 1st Floor

Description: Grey, Homogeneous, Exterior Window Glazing
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous >3.4 %
Comment: PLM Analysis Of NOB Inert Residue

8916-7-001	98035425-07	*No*	NAD

Location: 1st Floor

Description: Grey, Homogeneous, Cementitious, Wall Plaster
Asbestos Types:
Other Material: Cellulose 5. %, Non-fibrous 95. %

8916-7-002	98035425-08	*Yes*	35.2 %

Location: 1st Floor

Description: Grey, Homogeneous, Mag Insulation
Asbestos Types: Amosite 4.2 %, Chrysotile 31. %
Other Material: Non-fibrous 64.8 %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

SciLab Job No. 98035425
P.O. # 8916

RE: 8916; Charlestown; Buildings 5, 7, & 16

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-7-003	98035425-09	*No*	NAD

Location: 3rd Floor

Description: Grey, Homogeneous, Fiberglass Fitting Insulation
Asbestos Types:
Other Material: Fibrous glass 30. %, Non-fibrous 70. %

8916-7-004	98035425-10	*Yes*	≤ 1. %

Location: 1st Floor

Description: Grey, Homogeneous, Interior Window Glazing
Asbestos Types: Chrysotile Trace
Other Material: Non-fibrous 0.7 %
Comment: PLM Analysis Of NOB Inert Residue

8916-7-005	98035425-11	*Yes*	2 %

Location: 1st Floor

Description: Grey, Homogeneous, Interior Window Caulking
Asbestos Types: Chrysotile 2.0 %
Other Material: Non-fibrous 6.0 %
Comment: PLM Analysis Of NOB Inert Residue

8916-7-006	98035425-12	*Yes*	57 %

Location: 1st Floor

Description: Grey, Homogeneous, Aircell Insulation
Asbestos Types: Chrysotile 57. %
Other Material: Cellulose 10. %, Non-fibrous 33. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

SciLab Job No. 98035425
P.O. # 8916

RE: 8916; Charlestown; Buildings 5, 7, & 16

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-7-007	98035425-13	*Yes*	7.3 %

Location: 1st Floor

Description: Grey, Homogeneous, Ext. Door Caulk
Asbestos Types: Chrysotile 7.3 %
Other Material: Non-fibrous 10.9 %

Comment: PLM Analysis Of NOB Inert Residue

8916-7-008	98035425-14	*No*	NAD

Location: 1st Floor

Description: Grey, Homogeneous, Door Window Glazing
Asbestos Types:
Other Material: Non-fibrous 8.2 %

Comment: PLM Analysis Of NOB Inert Residue

8916-7-009T	98035425-15	*Yes*	3.5 %

Location: 1st Floor

Description: Grey, Homogeneous, 9x9 Floor Tile
Asbestos Types: Chrysotile 3.5 %
Other Material: Non-fibrous 30.1 %

Comment: PLM Analysis Of NOB Inert Residue

8916-7-009M	98035425-16	*No*	NAD

Location: 1st Floor

Description: Black, Homogeneous, 9x9 Floor Tile Mastic
Asbestos Types:
Other Material: Non-fibrous 17.5 %

Comment: PLM Analysis Of NOB Inert Residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

SciLab Job No. 98035425
P.O. # 8916

RE: 8916; Charlestown; Buildings 5, 7, & 16

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-7-010	98035425-17	*No*	NAD

Location: 1st Floor

Description: Silver, Homogeneous, Ext. Window Glazing
Asbestos Types:
Other Material: Non-fibrous 1.9 %

Comment: PLM Analysis Of NOB Inert Residue

Reporting Notes:

Analyzed by: Bonni Mora Bonni Mora

*NAD/NSD = no asbestos detected; NA = not analyzed; NAPS = not analyzed positive stop; Bulk Asbestos Analysis per 40 CFR 763, Subpart F, Appendix A and ELAP Analysis Protocols 198.1/198.4 for NY samples; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in NY State (see also EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This report relates ONLY to the items tested. ELAP #11480, Vt. Cert. #AL016055

Reviewed By:

SciLab Job#: **98-03-5425**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Buildings 5, 7, & 16

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
01	8916-16-01 Building #16		---	---	---	---	Amosite 13.	NA
02	8916-16-02 Building #16		0.51	7.25	92.55	0.20	Anthophyllite Trace	Chrysotile Trace
03	8916-5-001 1st Floor Hall		---	---	---	---	Chrysotile 40.	NA
04	8916-5-002 1st Floor Hall		---	---	---	---	Amosite 14.	NA
05	8916-5-003 1st Floor		0.284	10.56	85.56	3.87	NAD	Chrysotile Trace
06	8916-5-004 1st Floor		0.587	25.04	70.53	2.43	Chrysotile <1.	Chrysotile 2.0
07	8916-7-001 1st Floor		---	---	---	---	NAD	NA
08	8916-7-002 1st Floor		---	---	---	---	Amosite 4.2 Chrysotile 31.	NA

Reviewed by: Paul Mucha

PLM analyst: Bonni Mora; TEM analyst: Paul Mucha Paul Mucha

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 fo New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: _____

SciLab Job#: **98-03-5425**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Buildings 5, 7, & 16

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
09	8916-7-003 3rd Floor		---	---	---	---	NAD	NA
10	8916-7-004 1st Floor		0.418	23.44	75.84	0.72	Chrysotile Trace	Chrysotile Trace
11	8916-7-005 1st Floor		0.538	7.99	84.01	5.99	Chrysotile 2.0	NA
12	8916-7-006 1st Floor		---	---	---	---	Chrysotile 57.	NA
13	8916-7-007 1st Floor		0.264	34.47	47.35	10.88	Chrysotile 7.3	NA
14	8916-7-008 1st Floor		0.822	26.03	65.69	8.27	NAD	Chrysotile Trace
15	8916-7-009T 1st Floor		0.11	64.55	3.64	28.32	Chrysotile 3.5	NA
16	8916-7-009M 1st Floor		0.297	19.53	62.96	15.51	NAD	Chrysotile 2.0

Reviewed by: Paul Mucha

PLM analyst: Bonni Mora; TEM analyst: Paul Mucha Paul Mucha

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: _____

SciLab Job#: **98-03-5425**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Buildings 5, 7, & 16

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
17	8916-7-010 1st Floor		0.533	47.47	50.66	1.88	NAD	Chrysotile Trace

Reviewed by: Paul Mucha

PLM analyst: Bonni Mora; TEM analyst: Paul Mucha Paul Mucha

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: _____

JACK EISENBACH ENGINEERING, P.C.

291 GENESEE STREET, UTICA, NEW YORK 13501 • 315•735•1916 • FAX 315•735•6365

CLIENT: Charlestown

ADDRESS: Buildings 5,6,7,16

LABORATORY: SCI LAB

PROJECT #: 8916

DATE(S) COLLECTED: 3-3-98 + 2-27-98

SAMPLES COLLECTED BY: Tony Scialdone / Jim Wheeler

TYPE of ANALYSIS

ASBESTOS BULK	
PLM Only	
TEM Only	
PLM/ TEM As Required By ELAP	X

ASBESTOS AIR	
PCM	
TEM AHERA	
TEM NIOSH 7402	

LEAD	
AA NIOSH 7082	

TURNAROUND TIME

RUSH		72 Hour	X	OTHER	

CHAIN OF CUSTODY

	PRINTED NAME	SIGNATURE	AFFILIATION	DATE	# OF SAMPLES
REMITTED BY:	Tony Scialdone	[signature]	JEE	3/4/98	37
RECEIVED BY:	Alejandra Lopez	[signature]	SciLab	3/5/98	37
REMITTED BY:					
RECEIVED BY:					
REMITTED BY:					
RECEIVED BY:					

PLEASE FAX RESULTS ASAP TO (315) 735 - 6365, ATTN: TONY

NOTES:

98025425

Jack Eisenbach Engineering, P.C.
291 Genesee Street, Utica, New York 13501
315-735-1916 Fax 315-735-6365

SAMPLE LOG

PROJECT: Charlestown - Buildings 5, 7 & 16 PROJECT #: 8916

SAMPLE NUMBER	HOMO ID #	RESULTS (+/-)	MATERIAL SAMPLED	SAMPLE LOCATION
8916-16-01		F	MAG INSULATION	Building #16
-16-02		N	DOOR WINDOW GLAZING	"
8916-~~7~~5-001		F	INSULATION - AIRCELL	1st Floor Hall
~~7~~-002		F	MAG INSULATION	"
~~7~~-003		N	INTERIOR WINDOW GLAZING	1st Floor
~~7~~-004		N	EXTERIOR WINDOW GLAZING	"
8916-~~7~~5-001		F	WALL PLASTER	1st Floor
-~~7~~5-002		F	MAG INSULATION	"
S-~~7~~-003	X	F	F.G. FITTING INS.	3rd Floor
S-~~7~~-004		N	INTERIOR WINDOW GLAZING	1st Floor
S-~~7~~-005		N	INTERIOR WINDOW CAULK	"
S-~~7~~-006		F	AIRCELL INSULATION	
S-~~7~~-007		N	EXT. DOOR CAULK	
S-~~7~~-008		N	DOOR WINDOW GLAZING	
S-~~7~~-009	/009M	N	9x9 FLOOR TILE /MASTIC	1st Floor
S-~~7~~-010		N	EXT. WINDOW GLAZING	

Samples Collected By: Tony Scialdone

Accreditation No: AH92-13654

98035425

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 Fax 212/679-9392

March 9, 1998

JACK EISENBACH ENGINEERING, P.C.
Attn: Mr. Eisenbach
291 Genesee Street
Utica, NY 13501

RE: JACK EISENBACH ENGINEERING, P.C.
Job Number 98035438
P.O. # 8916
8916; Charlestown

Dear Mr. Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following JACK EISENBACH ENGINEERING, P.C. samples, received at Scientific Laboratories on Thursday, March 5, 1998, for a 3 day turnaround:

8916-6-001, 8916-6-002, 8916-6-003, 8916-6-004, 8916-6-005, 8916-6-006, 8916-6-007, 8916-6-008, 8916-6-009, 8916-6-010, 8916-6-011, 8916-6-012, 8916-6-013, 8916-6-014, 8916-6-015, 8916-6-016, 8916-6-017, 8916-6-018, 8916-6-019, 8916-6-020, 8916-6-021

The 21 samples, placed in zip lock bag, were shipped to SciLab via Federal Express. JACK EISENBACH ENGINEERING, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses performed under ELAP 198.1 & 198.4 guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in the TEM report in the Appendix. Complete PLM results for individual samples are presented in the Appendix of this combined report. This report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul Mucha

Paul Mucha
Laboratory Supervisor

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

RE: 8916; Charlestown

SciLab Job No. 98035438
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-6-001	98035438-01	*Yes*	28 %

Location: Boiler #2

Description: Grey, Homogeneous, Boiler Packing
Asbestos Types: Chrysotile 28. %
Other Material: Fibrous glass 20. %, Non-fibrous 52. %

8916-6-002	98035438-02	*No*	NAD

Location: Boiler #2

Description: Red, Homogeneous, Cementitious, Packing Cement
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-6-003	98035438-03	*No*	NAD

Location: Boiler #2

Description: Brown, Homogeneous, Cementitious, Fire Brick
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-6-004	98035438-04	*No*	NAD

Location: Boiler #

Description: Brown, Homogeneous, Cementitious, Boiler Packing
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-6-005	98035438-05	*Yes*	80 %

Location: Boiler #1

Description: Grey, Homogeneous, Gasket
Asbestos Types: Chrysotile 80. %
Other Material: Non-fibrous 20. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

RE: 8916; Charlestown

SciLab Job No. 98035438
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-6-006	98035438-06	*Yes*	26.8 %

Location: Boiler Room

Description: Off White, Homogeneous, Pipe Insulation
Asbestos Types: Amosite 22. %, Chrysotile 4.8 %
Other Material: Non-fibrous 73.2 %

8916-6-007	98035438-07	*Yes*	50 %

Location: Boiler Room

Description: Grey, Homogeneous, Fitting
Asbestos Types: Chrysotile 50. %
Other Material: Non-fibrous 50. %

8916-6-008	98035438-08	*Yes*	44 %

Location: Boiler Room

Description: Grey, Homogeneous, Breeching
Asbestos Types: Chrysotile 44. %
Other Material: Non-fibrous 56. %

8916-6-009	98035438-09	*No*	NAD

Location: Boiler #3

Description: Grey, Homogeneous, Brick Mortar
Asbestos Types:
Other Material: Non-fibrous 86.2 %

Comment: PLM analysis of NOB inert residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

RE: 8916; Charlestown

SciLab Job No. 98035438
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-6-010	98035438-10	*Yes*	50 %

Location: Boiler Room

Description: Grey, Homogeneous, Insulation
Asbestos Types: Chrysotile 50. %
Other Material: Non-fibrous 50. %

8916-6-011	98035438-11	*Yes*	40 %

Location: Back Up Generator Room

Description: Grey, Homogeneous, Pipe Insulation
Asbestos Types: Chrysotile 40. %
Other Material: Non-fibrous 60. %

8916-6-012	98035438-12	*No*	NAD

Location: Backup Generator Room

Description: Grey, Homogeneous, Caulk
Asbestos Types:
Other Material: Non-fibrous 4.3 %
Comment: PLM analysis of NOB inert residue

8916-6-013	98035438-13	*No*	NAD

Location: Backup Generator Room

Description: Grey, Homogeneous, Window Glazing
Asbestos Types:
Other Material: Non-fibrous 7.6 %
Comment: PLM analysis of NOB inert residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

RE: 8916; Charlestown

SciLab Job No. 98035438
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-6-014	98035438-14	*Yes*	2.4 %

Location: Backup Generator Room

Description: Grey, Homogeneous, Caulk
Asbestos Types: Chrysotile 2.4 %
Other Material: Non-fibrous 3.7 %

Comment: PLM analysis of NOB inert residue

8916-6-015	98035438-15	*Yes*	36 %

Location: Bathroom

Description: Grey, Homogeneous, Wall Plaster
Asbestos Types: Chrysotile 36. %
Other Material: Cellulose 2. %, Non-fibrous 62. %

8916-6-016	98035438-16	*Yes*	27 %

Location: Bathroom

Description: Grey, Homogeneous, Ceiling Plaster
Asbestos Types: Chrysotile 27. %
Other Material: Non-fibrous 73. %

8916-6-017	98035438-17	*No*	NAD

Location: Pump Room

Description: Grey, Homogeneous, Cementitious, Wall Plaster
Asbestos Types:
Other Material: Cellulose Trace, Non-fibrous 100. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

RE: 8916; Charlestown

SciLab Job No. 98035438
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-6-018	98035438-18	*No*	NAD

Location: Transformer Room

Description: Grey, Homogeneous, Cementitious, Wall Plaster
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-6-019	98035438-19	*No*	NAD

Location: Transformer Room

Description: Grey, Homogeneous, Caulk
Asbestos Types:
Other Material: Non-fibrous 61.4 %
Comment: PLM analysis of NOB inert residue

8916-6-020	98035438-20	*Yes*	2.1 %

Location: Transformer Room

Description: Grey, Homogeneous, Window Glazing
Asbestos Types: Chrysotile 2.1 %
Other Material: Non-fibrous 3.8 %
Comment: PLM analysis of NOB inert residue

8916-6-021	98035438-21	*Yes*	27 %

Location: Front of Boiler #1

Description: Grey, Homogeneous, Boiler Insulation
Asbestos Types: Chrysotile 27. %
Other Material: Fibrous glass 20. %, Non-fibrous 53. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/5/98
Date Examined 3/7/98

RE: 8916; Charlestown

SciLab Job No. 98035438
P.O. # 8916

Reporting Notes:

Analyzed by: Bonni Mora

*NAD/NSD = no asbestos detected; NA = not analyzed; NAPS = not analyzed positive stop; Bulk Asbestos Analysis per 40 CFR 763, Subpart F, Appendix A and ELAP Analysis Protocols 198.1/198.4 for NY samples; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in NY State (see also EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This report relates ONLY to the items tested. ELAP #11480, Vt. Cert. #AL016055

Reviewed By:

SciLab Job#: **98-03-5438**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
01	8916-6-001 Boiler #2		---	---	---	---	Chrysotile 28.	NA
02	8916-6-002 Boiler #2		---	---	---	---	NAD	NA
03	8916-6-003 Boiler #2		---	---	---	---	NAD	NA
04	8916-6-004 Boiler #		---	---	---	---	NAD	NA
05	8916-6-005 Boiler #1		---	---	---	---	Chrysotile 80.	NA
06	8916-6-006 Boiler Room		---	---	---	---	Amosite 22. Chrysotile 4.8	NA
07	8916-6-007 Boiler Room		---	---	---	---	Chrysotile 50.	NA
08	8916-6-008 Boiler Room		---	---	---	---	Chrysotile 44.	NA

Reviewed by: _____

PLM analyst: Bonni Mora_____; TEM analyst: Louis Lombardi_____

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: _____

98035438

Jack Eisenbach Engineering, P.C.
291 Genesee Street, Utica, New York 13501
315-735-1916 Fax 315-735-6365

SAMPLE LOG

PROJECT: Charlestown - Building #6

PROJECT #: 8916

SAMPLE NUMBER	HOMO ID #	RESULTS (+/-)	MATERIAL SAMPLED	SAMPLE LOCATION
8916-6-001		F	Boiler Packing	Boiler #2
002		F	Packing Cement	Boiler #2
003		F	Firebrick in boiler	Boiler #2
004		F	Packing in boiler peephole	Boiler #2
005		F	Gasket around openings	Boiler #1
006		F	Pipe Insulation	Boiler Room
007		F	Fitting	Boiler Room
008		F	Breeching	Boiler Room
009		N	Brick Mortar	Boiler #3
010		F	Heat ~~Exchanger~~ Exchanger Insulation	Boiler Room
011		F	Main Pipe Insulation	Backup Generator Room
012		N	Interior Window Caulk	Backup Generator Room
013		N	Interior Window Glazing	Backup Generator Room
014		N	Ext. Door Frame Caulk	
015		F	Wall Plaster	Bathroom
016		F	Ceiling Plaster	"
017		F	Wall Plaster	Pump Room
018		F	Transite Panel	Transformer Room
019		N	Exterior Window Caulk	
020		N	Exterior Window Glazing	
021		F	Boiler Packing Insulation	Front of Boiler #1

Samples Collected By: Tony Scialbone 3/5/98 0915

Accreditation No: AH92-13654

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 Fax 212/679-9392

March 13, 1998

RECEIVED
MAR 23 1998

JACK EISENBACH ENGINEERING, P.C.
Attn: Mr. Eisenbach
291 Genesee Street
Utica, NY 13501

RE: JACK EISENBACH ENGINEERING, P.C.
Job Number 98035893
P.O. # 8916
8916; Charlestown; Building 10 and Transformer Building

Dear Mr. Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following JACK EISENBACH ENGINEERING, P.C. samples, received at Scientific Laboratories on Wednesday, March 11, 1998, for a 3 day turnaround:

8916-PR-01, 8916-PR-02, 8916-10-01, 8916-10-02, 8916-10-05, 8916-10-06, 8916-09, 8916-10-10, 8916-10-11, 8916-10-12, 8916-10-13, 8916-10-14, 8916-10-03, 8916-10-07, 8916-10-04, 8916-10-08

The 16 samples, placed in zip lock bag, were shipped to SciLab via Federal Express. JACK EISENBACH ENGINEERING, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses performed under ELAP 198.1 & 198.4 guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in the TEM report in the Appendix. Complete PLM results for individual samples are presented in the Appendix of this combined report. This report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul Mucha

Paul Mucha
Laboratory Supervisor

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/11/98 **SciLab Job No.** 98035893
Date Examined 3/13/98 **P.O. #** 8916
ELAP Number 11480 **Page** 1 **of** 5
RE: 8916; Charlestown; Building 10 and Transformer Building

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-PR-01	98035893-01	*Yes*	≤ 1. %

Location: North Transformer Building

Description: Grey, Homogeneous, Interior Window Glazing
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous 5.5 %

Comment: PLM Analysis Of NOB Inert Residue

8916-PR-02	98035893-02	*No*	NAD

Location: South Transformer Building

Description: Grey, Homogeneous, Wiring
Asbestos Types:
Other Material: Non-fibrous 0.3 %

Comment: PLM Analysis Of NOB Inert Residue

8916-10-01	98035893-03	*Yes*	≤ 1. %

Location: Second Floor

Description: Grey, Homogeneous, Interior Window Glazing
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous 8.4 %

Comment: PLM Analysis Of NOB Inert Residue

8916-10-02	98035893-04	*No*	NAD

Location: Second Floor

Description: Grey, Homogeneous, Interior Window Caulking
Asbestos Types:
Other Material: Non-fibrous 13.2 %

Comment: PLM Analysis Of NOB Inert Residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/11/98 **SciLab Job No.** 98035893
Date Examined 3/13/98 **P.O. #** 8916
ELAP Number 11480 **Page** 3 **of** 5
RE: 8916; Charlestown; Building 10 and Transformer Building

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-10-11	98035893-09	*Yes*	60 %

Location: Fourth Floor

Description: White, Homogeneous, Mag Pipe Insulation
Asbestos Types: Amosite 50. %, Chrysotile 10. %
Other Material: Non-fibrous 40. %

8916-10-12	98035893-10	*Yes*	4.3 %

Location: Exterior Windows

Description: Grey, Homogeneous, Exterior Window Caulking
Asbestos Types: Anthophyllite 1.6 %, Chrysotile 2.7 %
Other Material: Non-fibrous 49.8 %

Comment: PLM Analysis Of NOB Inert Residue

8916-10-13	98035893-11	*Yes*	≤ 1. %

Location: Exterior Window

Description: Grey, Homogeneous, Exterior Window Glazing
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous 4.4 %

Comment: PLM Analysis Of NOB Inert Residue

8916-10-14	98035893-12	*Yes*	8 %

Location: Exterior Door Caulking

Description: Grey, Homogeneous, Caulking
Asbestos Types: Anthophyllite 5. %, Chrysotile 3. %
Other Material: Non-fibrous 42.5 %

Comment: PLM Analysis Of NOB Inert Residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/11/98 **SciLab Job No.** 98035893
Date Examined 3/13/98 **P.O. #** 8916
ELAP Number 11480 **Page** 4 **of** 5
RE: 8916; Charlestown; Building 10 and Transformer Building

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-10-03	98035893-13	*No*	NAD
1 **Location:** Second Floor			
Description: Off White, Homogeneous, Sheetrock			
Asbestos Types:			
Other Material: Cellulose 10. %, Fibrous glass 3. %, Non-fibrous 87. %			
8916-10-07	98035893-14	*No*	NAD
1 **Location:** Third Floor			
Description: Off White, Homogeneous, Sheetrock			
Asbestos Types:			
Other Material: Cellulose 20. %, Non-fibrous 80. %			
8916-10-04	98035893-15	*No*	NAD
2 **Location:** Second Floor			
Description: Off White, Homogeneous, Joint Compound			
Asbestos Types:			
Other Material: Cellulose 30. %, Non-fibrous 70. %			
8916-10-08	98035893-16	*No*	NAD
2 **Location:** Third Floor			
Description: Off White, Homogeneous, Joint Compound			
Asbestos Types:			
Other Material: Cellulose Trace, Non-fibrous 100. %			

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/11/98
Date Examined 3/13/98
ELAP Number 11480

SciLab Job No. 98035893
P.O. # 8916
Page 5 **of** 5

RE: 8916; Charlestown; Building 10 and Transformer Building

Reporting Notes:

Analyzed by: Bella Chernis

*NAD/NSD = no asbestos detected; NA = not analyzed; NAPS = not analyzed positive stop; Bulk Asbestos Analysis per 40 CFR 763, Subpart F, Appendix A and ELAP Analysis Protocols 198.1/198.4 for NY samples; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in NY State (see also EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This report relates ONLY to the items tested. ELAP #11480, Vt. Cert. #AL016055

Reviewed By:

SciLab Job#: **98-03-5893**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Building 10 and Transformer Building

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
01	8916-PR-01 North Transformer Building		0.381	17.32	77.17	3.51	Chrysotile <1.	Chrysotile 2.0
02	8916-PR-02 South Transformer Building		0.271	98.15	1.48	0.37	NAD	NAD
03	8916-10-01 Second Floor		0.284	22.18	69.37	6.45	Chrysotile <1.	Chrysotile 2.0
04	8916-10-02 Second Floor		0.325	15.38	71.38	13.23	NAD	NAD
05	8916-10-05 Third Floor		0.407	12.78	80.34	3.88	Chrysotile <1.	Chrysotile 3.0
06	8916-10-06 Third Floor		0.338	8.88	85.21	2.92	Chrysotile <1.	Chrysotile 3.0 Anthophyllite Trace
07	8916-09 Fourth Floor		---	---	---	---	Chrysotile 57.	NA
08	8916-10-10 Fourth Floor		---	---	---	---	NAD	NA

Reviewed by: _____

PLM analyst: Bella Chernis_____; TEM analyst: Louis Lombardi Lou Lombardi

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: Lance Luckman Jr

SciLab Job#: **98-03-5893**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Building 10 and Transformer Building

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
09	8916-10-11 Fourth Floor		----	----	----	----	Amosite 50. Chrysotile 10.	NA
10	8916-10-12 Exterior Windows		0.336	16.07	29.76	49.87	Anthophyllite 1.6 Chrysotile 2.7	NA
11	8916-10-13 Exterior Window		0.516	23.64	71.90	1.46	Chrysotile <1.	Chrysotile 3.0
12	8916-10-14 Exterior Door Caulking		0.501	33.53	15.97	42.50	Anthophyllite 5. Chrysotile 3.	NA
13	8916-10-03 Second Floor	1	----	----	----	----	NAD	NA
14	8916-10-07 Third Floor	1	----	----	----	----	NAD	NA
15	8916-10-04 Second Floor	2	----	----	----	----	NAD	NA
16	8916-10-08 Third Floor	2	----	----	----	----	NAD	NA

Reviewed by: _____

PLM analyst: Bella Chernis_____; TEM analyst: Louis Lombardi Lou Lombardi

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: Nance Fuchs Jr.

98035893

JACK EISENBACH ENGINEERING, P.C.

291 GENESEE STREET, UTICA, NEW YORK 13501 • 315•735•1916 • FAX 315•735•6365

CLIENT: Charlestown

ADDRESS:

LABORATORY: SCILAB

PROJECT #: 8916

DATE(S) COLLECTED: 3-10-98

SAMPLES COLLECTED BY: TONY SCIALPONE

TYPE of ANALYSIS

ASBESTOS BULK	
PLM Only	
TEM Only	
PLM/ TEM As Required By ELAP	X

ASBESTOS AIR	
PCM	
TEM AHERA	
TEM NIOSH 7402	

LEAD	
AA NIOSH 7082	

TURNAROUND TIME

RUSH		72 Hour	X	OTHER	

CHAIN OF CUSTODY

	PRINTED NAME	SIGNATURE	AFFILIATION	DATE	# OF SAMPLES
REMITTED BY:	Tony Scialpone	TS	JEE	3/10/98	16
RECEIVED BY:	Alejandra Lopez	AL	Scilab	3/11/98	1345 (16)
REMITTED BY:					
RECEIVED BY:					
REMITTED BY:					
RECEIVED BY:					

PLEASE FAX RESULTS ASAP TO (315) 735 - 6365, ATTN: TONY

NOTES:

Please do positive stops on sample #s 8916-10-03, 10-07 and 8916-10-04, 10-08

98035898

SAMPLE LOG

Jack Eisenbach Engineering, P.C.
291 Genesee Street, Utica, New York 13501
315-735-1916 Fax 315-735-6365

PROJECT: Charlestown - building 10 + Transformer Bldgs. PROJECT #: 8916

SAMPLE NUMBER	HOMO ID #	RESULTS (+/-)	MATERIAL SAMPLED	SAMPLE LOCATION	
8916-PR-01	1	+ N	INTERIOR WINDOW GLAZING	NORTH TRANSFORMER BLDG.	
PR-02		− N	WIRING	SOUTH " "	
8916-10-01		+ N	INT. WINDOW GLAZING	Second Floor	
10-02		− N	INT. WINDOW CAULK	"	
10-05		+ N	INT. WINDOW GLAZING	Third Floor	
10-06		+ N	INT. WINDOW CAULK	"	
10-09		+	FITTING	Fourth Floor	
10-10		−	CEILING TILE (2×4 DROP)	"	
10-11		+	MAG PIPE INSULATION	"	
10-12		+ N	EXT. WINDOW CAULK		
10-13		+ N	EXT. WINDOW GLAZING		
10-14		+ N	EXT. ~~WINDOW~~ DOOR CAULK		
8916-10-03		−	SHEETROCK	Second Floor	Positive Stop
07		−	"	Third Floor	
8916-10-04		−	JOINT COMPOUND	Second Floor	Positive Stop
08		−	" "	Third Floor	

Samples Collected By: Tony Scialdone

Accreditation No: AHG2-13654

6/8 ... Sample Rem

SciLab

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 Fax 212/679-9392

RECEIVED MAR - 9 1998

March 2, 1998

JACK EISENBACH ENGINEERING, P.C.
Attn: Mr. Eisenbach
291 Genesee Street
Utica, NY 13501

RE: JACK EISENBACH ENGINEERING, P.C.
Job Number 98026848
P.O. # 8916
8916; Charlestown; Building #11

Dear Mr. Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following JACK EISENBACH ENGINEERING, P.C. samples, received at Scientific Laboratories on Saturday, February 28, 1998, for a 3 day turnaround:

8916-11-001, 8916-11-002, 8916-11-005, 8916-11-005B, 8916-11-006, 8916-11-007, 8916-11-008, 8916-11-009, 8916-11-010, 8916-11-011, 8916-11-012, 8916-11-013, 8916-11-014, 8916-11-015, 8916-11-017, 8916-11-003, 8916-11-016, 8916-11-018, 8916-11-004, 8916-11-023, 8916-11-022, 8916-11-019, 8916-11-025

The 23 samples, placed in zip lock bag, were shipped to SciLab via Federal Express. JACK EISENBACH ENGINEERING, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses performed under ELAP 198.1 & 198.4 guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in the TEM report in the Appendix. Complete PLM results for individual samples are presented in the Appendix of this combined report. This report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul Mucha

Paul Mucha
Laboratory Supervisor

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 2/28/98
Date Examined 3/2/98
ELAP Number 11480
RE: 8916; Charlestown; Building #11

SciLab Job No. 98026848
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-11-001	98026848-01	*Yes*	33 %

Location: Welding Equipment Room

Description: Grey, Homogeneous, Cementitious, Transite
Asbestos Types: Chrysotile 33. %
Other Material: Non-fibrous 67. %

8916-11-002	98026848-02	*No*	NAD

Location: Welding Equipment Room

Description: Black/Tan, Homogeneous, Cementitious, Fire Brick
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-11-005	98026848-03	*Yes*	6.5 %

Location: Boat Storage

Description: Green, Homogeneous, Cementitious, 9x9 Floor Tile
Asbestos Types: Chrysotile 6.5 %
Other Material: Non-fibrous 11.5 %

Comment: PLM Analysis Of NOB Inert Residue

8916-11-005B	98026848-04	*No*	NAD

Location: Boat Storage

Description: Black, Homogeneous, Mastic
Asbestos Types:
Other Material: Non-fibrous 38. %

Comment: PLM Analysis Of NOB Inert Residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 2/28/98
Date Examined 3/2/98
ELAP Number 11480
RE: 8916; Charlestown; Building #11

SciLab Job No. 98026848
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-11-010	98026848-09	*Yes*	≤ 1. %

Location: Large Equip Storage

Description: Grey, Homogeneous, Cementitious, Window Glazing
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous 5.1 %

Comment: PLM Analysis Of NOB Inert Residue

8916-11-011	98026848-10	*Yes*	29 %

Location: Large Equip Storage

Description: Black, Homogeneous, Cementitious, Transite
Asbestos Types: Chrysotile 29. %
Other Material: Non-fibrous 71. %

8916-11-012	98026848-11	*No*	NAD

Location: Boat Storage

Description: Grey, Homogeneous, Cementitious, Fitting
Asbestos Types:
Other Material: Cellulose 1. %, Fibrous glass 30. %, Non-fibrous 69. %

8916-11-013	98026848-12	*Yes*	2.6 %

Location: Outside

Description: Off White, Homogeneous, Cementitious, Window Glazing
Asbestos Types: Amosite 2.6 %
Other Material: Non-fibrous 19.2 %

Comment: PLM Analysis Of NOB Inert Residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 2/28/98
Date Examined 3/2/98
ELAP Number 11480
RE: 8916; Charlestown; Building #11

SciLab Job No. 98026848
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-11-014	98026848-13	*Yes*	4 %

Location: Outside

Description: Grey, Homogeneous, Window Caulking
Asbestos Types: Chrysotile 4. %
Other Material: Non-fibrous 6.3 %

Comment: PLM Analysis Of NOB Inert Residue

8916-11-015	98026848-14	*Yes*	≤ 1. %

Location: Outside Car Stor Entrance

Description: Grey, Homogeneous, Caulk
Asbestos Types: Chrysotile <1. %
Other Material: Non-fibrous 3.6 %

Comment: PLM Analysis Of NOB Inert Residue

8916-11-017	98026848-15	*Yes*	50 %

Location: Outside Car Stor. Entrance

Description: Grey, Homogeneous, Cementitious, Exterior Fitting
Asbestos Types: Chrysotile 50. %
Other Material: Non-fibrous 50. %

8916-11-003	98026848-16	*No*	NAD
A			

Location: Welding Room

Description: Brown/Off White, Heterogeneous, Cementitious, Sheetrock
Asbestos Types:
Other Material: Cellulose 10. %, Fibrous glass 5. %, Non-fibrous 85. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 2/28/98
Date Examined 3/2/98
ELAP Number 11480
RE: 8916; Charlestown; Building #11

SciLab Job No. 98026848
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-11-016	98026848-17	*No*	NAD
A	**Location:** Room Off Car Storage		

Description: Brown/Off White, Heterogeneous, Cementitious, Sheetrock
Asbestos Types:
Other Material: Cellulose 10. %, Fibrous glass 5. %, Non-fibrous 85. %

8916-11-018	98026848-18	*No*	NAD
A	**Location:** Hall		

Description: Brown/Off White, Heterogeneous, Cementitious, Sheetrock
Asbestos Types:
Other Material: Cellulose 10. %, Fibrous glass 5. %, Non-fibrous 85. %

8916-11-004	98026848-19	*No*	NAD
B	**Location:** Car Storage		

Description: White, Homogeneous, Cementitious, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-11-023	98026848-20	*No*	NAD
B	**Location:** Car Storage		

Description: White, Homogeneous, Cementitious, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-11-022	98026848-21	*No*	NAD
B	**Location:** Hallway		

Description: White, Homogeneous, Cementitious, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

8/23

98026848

JACK EISENBACH ENGINEERING, P.C.

291 GENESEE STREET, UTICA, NEW YORK 13501 • 315•735•1916 • FAX 315•735•6365

CLIENT: CHARLESTOWN

ADDRESS: BUILDING #11

LABORATORY: SCI LAB

PROJECT #: 8916

DATE(S) COLLECTED: 2-27-98

SAMPLES COLLECTED BY: Tony Scialdone / Jim Wheeler

TYPE of ANALYSIS

ASBESTOS BULK		ASBESTOS AIR		LEAD	
PLM Only		PCM		AA NIOSH 7082	
TEM Only		TEM AHERA			
PLM/ TEM As Required By ELAP	■	TEM NIOSH 7402			

TURNAROUND TIME

RUSH		72 Hour	■	OTHER	

CHAIN OF CUSTODY

	PRINTED NAME	SIGNATURE	AFFILIATION	DATE	# OF SAMPLES
REMITTED BY:	Tony Scialdone	Tony Scialdone	JEE	2/27/98	22
RECEIVED BY:	Sitelor	[illegible]	SCI LAB	2/28/98	23
REMITTED BY:					
RECEIVED BY:					
REMITTED BY:					
RECEIVED BY:					

PLEASE FAX RESULTS ASAP TO (315) 735 - 6365, ATTN: TONY

NOTES: Please do positive stops as indicated on sample log

Sample #'s 8916-003, 016, 018
8916-004, 023, 022
8916-019, 025
} Positive Stops

98026848

Jack Eisenbach Engineering, P.C.
291 Genesee Street, Utica, New York 13501
315-735-1916 Fax 315-735-6365

SAMPLE LOG

2/26/98

PROJECT: Charlestown - Building #11

PROJECT #: 8916

SAMPLE NUMBER	HOMO ID #	RESULTS (+/-)	MATERIAL SAMPLED	SAMPLE LOCATION	
8916-11-001		F	TRANSITE TABLE	Welding Equipment Room	
002		F	FIREBRICK	Welding Equipment Room	
005	005 M	N	9x9 FLOOR TILE / MASTIC	Boat Storage	
006		N	VAPOR BARRIER	Boat Storage	
007		F	PIPE INSULATION	Boat Storage	
008		N	F.G. FLOORING	Large Equip. Storage	
009		N	WINDOW CAULK	"	
010		N	WINDOW GLAZING	"	
011		F	TRANSITE TABLE	"	
012		F	FITTING	Boat Storage	
013		N	EXTERIOR WINDOW GLAZING	Outside	
014		N	EXTERIOR WINDOW CAULK	Outside	
015		N	DOOR FRAME CAULK	Outside - Car Stor. Entrance	
017		F	EXTERIOR FITTING	"	
003		F	SHEETROCK	Welding Room	POSITIVE STOP
016		F	"	Room off car storage	
018		F	"	Hall	
004		F	JOINT COMPOUND	Car Storage	POSITIVE STOP
023		F	"	Car Storage	
022		F	"	Hallway	
019		F	CONCRETE CEILING	Hannibal Storage	POSITIVE STOP
025		F	"	Hannibal Office	

Samples Collected By: Tony Scialdone

Accreditation No: AH92-13654

SciLab

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 Fax 212/679-9392

March 9, 1998

RECEIVED
MAR 13 1998

JACK EISENBACH ENGINEERING, P.C.
Attn: Mr. Eisenbach
291 Genesee Street
Utica, NY 13501

RE: JACK EISENBACH ENGINEERING, P.C.
Job Number 98035499
P.O. # 8916
8916; Charlestown; Building #12

Dear Mr. Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following JACK EISENBACH ENGINEERING, P.C. samples, received at Scientific Laboratories on Friday, March 6, 1998, for a 3 day turnaround:

8916-12-001, 8916-12-002, 8916-12-003, 8916-12-004, 8916-12-005, 8916-12-006, 8916-12-007, 8916-12-008, 8916-12-009, 8916-12-010, 8916-12-011, 8916-12-012, 8916-12-013, 8916-12-014, 8916-12-015, 8916-12-016, 8916-12-017, 8916-12-018

The 18 samples, placed in zip lock bag, were shipped to SciLab via Federal Express. JACK EISENBACH ENGINEERING, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses performed under ELAP 198.1 & 198.4 guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in the TEM report in the Appendix. Complete PLM results for individual samples are presented in the Appendix of this combined report. This report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency.

SciLab appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul Mucha

Paul Mucha
Laboratory Supervisor

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/6/98
Date Examined 3/8/98
ELAP Number 11480
RE: 8916; Charlestown; Building #12

SciLab Job No. 98035499
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-12-001	98035499-01	*Yes*	≤ 1. %

Location: Charlie G Bar

Description: White, Homogeneous, Interior Window Glazing
Asbestos Types: Tremolite <1. %
Other Material: Non-fibrous <30. %

Comment: PLM analysis of NOB inert residue

8916-12-002	98035499-02	*No*	NAD

Location: Charlie G Bar

Description: Off White, Homogeneous, Interior Window Caulking
Asbestos Types:
Other Material: Non-fibrous 64. %

Comment: PLM analysis of NOB inert residue

8916-12-003	98035499-03	*Yes*	31 %

Location: Charlie G Bar-Office

Description: Grey, Homogeneous, Aircell Insulation
Asbestos Types: Chrysotile 31. %
Other Material: Cellulose 30. %, Non-fibrous 39. %

8916-12-004	98035499-04	*No*	NAD

Location: Charlie G Bar-Kitchen

Description: White, Homogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/6/98
Date Examined 3/8/98
ELAP Number 11480
RE: 8916; Charlestown; Building #12

SciLab Job No. 98035499
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-12-005	98035499-05	*No*	NAD

Location: Charlie G Bar-Kitchen

Description: Brown/Off White, Homogeneous, Sheetrock
Asbestos Types:
Other Material: Cellulose 10. %, Fibrous glass 10. %, Non-fibrous 80. %

8916-12-006	98035499-06	*No*	NAD

Location: Charlie G Bar-Office

Description: White, Homogeneous, Joint Compound
Asbestos Types:
Other Material: Non-fibrous 100. %

8916-12-007	98035499-07	*No*	NAD

Location: Charlie G Bar-Office

Description: Brown/Off White, Homogeneous, Sheetrock
Asbestos Types:
Other Material: Cellulose 15. %, Non-fibrous 85. %

8916-12-008	98035499-08	*Yes*	5 %

Location: Charlie G's Dining Rm.

Description: Grey, Homogeneous, Exterior Window Caulking
Asbestos Types: Chrysotile 5. %
Other Material: Non-fibrous 15. %

Comment: PLM analysis of NOB inert residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/6/98
Date Examined 3/8/98
ELAP Number 11480
RE: 8916; Charlestown; Building #12

SciLab Job No. 98035499
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-12-009	98035499-09	*Yes*	2.8 %

Location: Charlie G's Dining Rm.

Description: Off White, Homogeneous, Exterior Window Glazing
Asbestos Types: Chrysotile 2.8 %
Other Material: Non-fibrous 5.6 %

Comment: PLM analysis of NOB inert residue

8916-12-010	98035499-10	*Yes*	57 %

Location: Bar

Description: Grey, Homogeneous, Packing Material Lights
Asbestos Types: Chrysotile 57. %
Other Material: Non-fibrous 43. %

8916-12-011	98035499-11	*No*	NAD

Location: 4th Flr.

Description: Off White, Homogeneous, Interior Window Glazing
Asbestos Types:
Other Material: Non-fibrous 9.2 %

Comment: PLM analysis of NOB inert residue

8916-12-012	98035499-12	*Yes*	1.8 %

Location: 4th Flr.

Description: Off White, Homogeneous, Interior Window Caulking
Asbestos Types: Chrysotile 1.8 %
Other Material: Non-fibrous 2.2 %

Comment: PLM analysis of NOB inert residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/6/98
Date Examined 3/8/98
ELAP Number 11480
RE: 8916; Charlestown; Building #12

SciLab Job No. 98035499
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-12-013	98035499-13	*Yes*	66 %

Location: Middle/4th Flr.

Description: Grey, Homogeneous, Fitting Insulation
Asbestos Types: Chrysotile 66. %
Other Material: Non-fibrous 44. %

8916-12-014	98035499-14	*No*	NAD

Location: 4th Flr.

Description: Brown/Off White, Homogeneous, Sheetrock
Asbestos Types:
Other Material: Cellulose 10. %, Fibrous glass 10. %, Non-fibrous 80. %

8916-12-015	98035499-15	*No*	NAD

Location: 4th Flr.

Description: Grey, Homogeneous, 2x4 Ceiling Tile
Asbestos Types:
Other Material: Cellulose 30. %, Fibrous glass 40. %, Non-fibrous 30. %

8916-12-016	98035499-16	*Yes*	6.8 %

Location: 1st Flr.

Description: Grey, Homogeneous, Exterior Door Caulking
Asbestos Types: Chrysotile 6.8 %
Other Material: Non-fibrous 25.2 %

Comment: PLM analysis of NOB inert residue

Environmental Lab Services

SCIENTIFIC LABORATORIES, INC.

117 E. 30th St. NY, NY 10016 212/679-8600 FAX: 212/679-9392

PLM Bulk Asbestos Report

JACK EISENBACH ENGINEERING, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

Date Received 3/6/98
Date Examined 3/8/98
ELAP Number 11480
RE: 8916; Charlestown; Building #12

SciLab Job No. 98035499
P.O. # 8916

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8916-12-017	98035499-17	*Yes*	8.1 %

Location: 1st Flr.

Description: Grey, Homogeneous, Exterior Window Caulking
Asbestos Types: Chrysotile 8.1 %
Other Material: Non-fibrous 17.9 %

Comment: PLM analysis of NOB inert residue

8916-12-018	98035499-18	*Yes*	1.4 %

Location: 1st Flr.

Description: Grey, Homogeneous, Exterior Window Glazing
Asbestos Types: Chrysotile 1.4 %
Other Material: Non-fibrous 1.7 %

Comment: PLM analysis of NOB inert residue

Reporting Notes:

Analyzed by: John Curulli

*NAD/NSD = no asbestos detected; NA = not analyzed; NAPS = not analyzed positive stop; Bulk Asbestos Analysis per 40 CFR 763, Subpart F, Appendix A and ELAP Analysis Protocols 198.1/198.4 for NY samples; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in NY State (see also EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This report relates ONLY to the items tested. ELAP #11480, Vt. Cert. #AL016055

Reviewed By:

SciLab Job#: **98-03-5499**
Client Name: JACK EISENBACH ENGINEERING, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
8916; Charlestown; Building #12

SciLab Sample #	Client Sample# Location	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS ELAP # 11480	** Asbestos % by TEM ELAP # 11480
01	8916-12-001 Charlie G Bar		1.128	12.77	56.21	25.03	Tremolite <1.	Tremolite 6.0
02	8916-12-002 Charlie G Bar		0.932	7.51	28.76	63.73	NAD	NAD
03	8916-12-003 Charlie G Bar-Office		---	---	---	---	Chrysotile 31.	NA
04	8916-12-004 Charlie G Bar-Kitchen		---	---	---	---	NAD	NA
05	8916-12-005 Charlie G Bar-Kitchen		---	---	---	---	NAD	NA
06	8916-12-006 Charlie G Bar-Office		---	---	---	---	NAD	NA
07	8916-12-007 Charlie G Bar-Office		---	---	---	---	NAD	NA
08	8916-12-008 Charlie G's Dining Rm.		0.587	37.65	40.20	22.15	Chrysotile 5.	NA

Reviewed by: _____

PLM analyst: John Curulli_____; TEM analyst: Louis Lombardi_____

Quantification should be considered qualitative only (positive or negative) for beginning sample weights of less than 0.1 grams. NAD = no asbestos detected; NA = not analyzed; Trace = <1%; NAPS = not analyzed positive stop; Bulk Asbestos Analysis - PLM per 40 CFR 763, Subpt F, Appd A; - TEM by Chatfield and ELAP Analysis Protocol PLM-198.1/TEM-198.4 for New York samples; Note: TEM resolves all asbestos fibers whereas PLM typically will not resolve fibers <~0.2 microns in diameter.

Reviewed By: _____

Jack Eisenbach Engineering, P.C.
291 Genesee Street, Utica, New York 13501
315-735-1916 Fax 315-735-6365

SAMPLE LOG

PROJECT: Charlestown - Building #12

PROJECT #: 8916

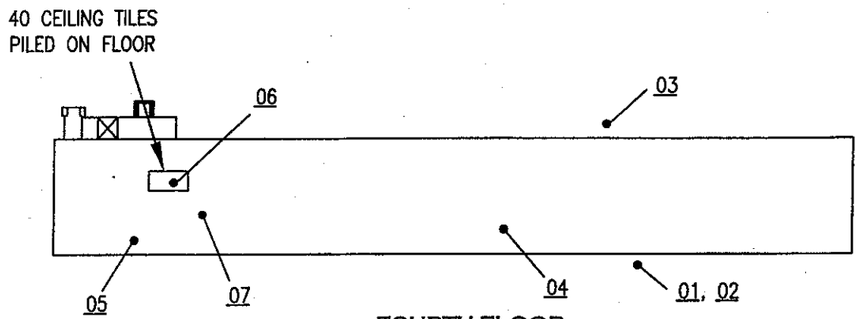
SAMPLE NUMBER	HOMO ID #	RESULTS (+/-)	MATERIAL SAMPLED	SAMPLE LOCATION
8916-12-001			INTERIOR WINDOW GLAZING	CHARLIE G BAR
002			" " CAULK	— " —
003			AIRCELL INSULATION	— " — OFFICE
004			JOINT COMPOUND	— " — KITCHEN
005			SHEETROCK	— " — "
006			JOINT COMPOUND	— " — OFFICE
007			SHEETROCK	— " — "
008			EXTERIOR WINDOW CAULK	CHARLIE G'S DINING RM
009			" " GLAZING	— " —
010			PACKING MATERIAL IN LIGHTS	BAR
011			INTERIOR WINDOW GLAZING	4th FLOOR
012			" " CAULK	4th FLOOR
013			FITTING INSULATION	Middle Rm - 4th Floor
014			SHEETROCK	4th FLOOR
015			2x4 CEILING TILE	4th FLOOR
016			EXT. DOOR CAULK	1st FLOOR
017			EXT. WINDOW CAULK	"
018			" " GLAZING	"

Samples Collected By: TONY SCIALDONE

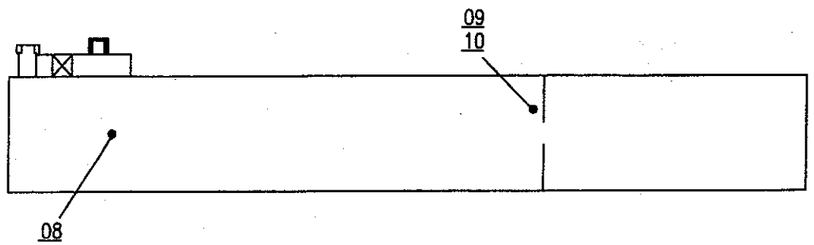
Accreditation No: AHQ2 - 13654

98005499

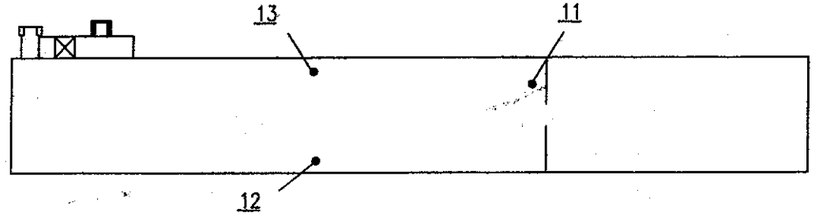
5/6/98 9:40am



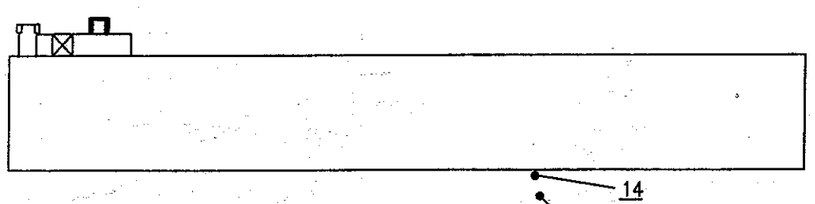
FOURTH FLOOR



THIRD FLOOR



SECOND FLOOR



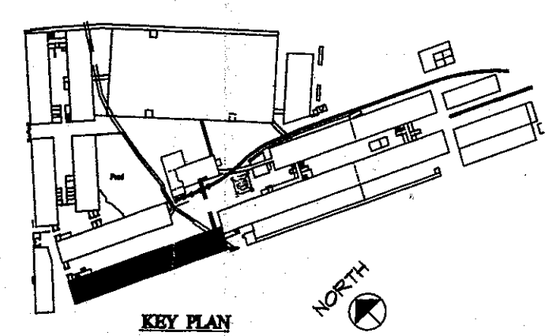
FIRST FLOOR

NOTE:

1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-4-

LEGEND

XX SAMPLE NUMBER



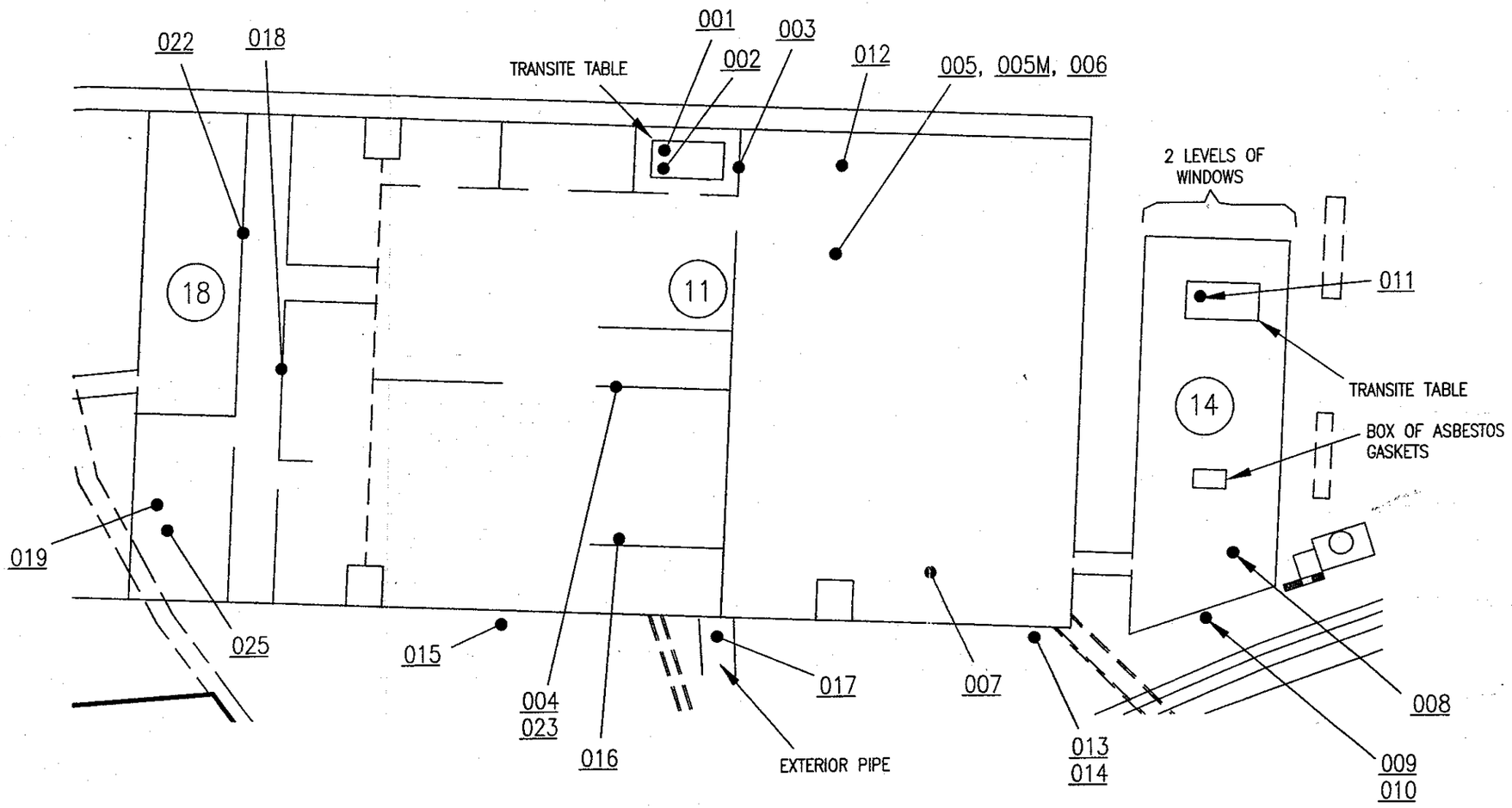
KEY PLAN

SL-2

CHARLESTOWN
BUILDING 4
SAMPLE LOCATIONS

DATE: 5-14-95
DRAWN: JNS
NO.: 8916

JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Carlton Street, Buffalo, NY 14203 716-882-3903

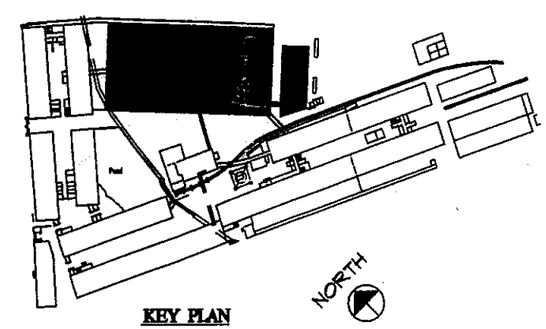


LEGEND

XXX SAMPLE NUMBER

NOTE:

1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-11-



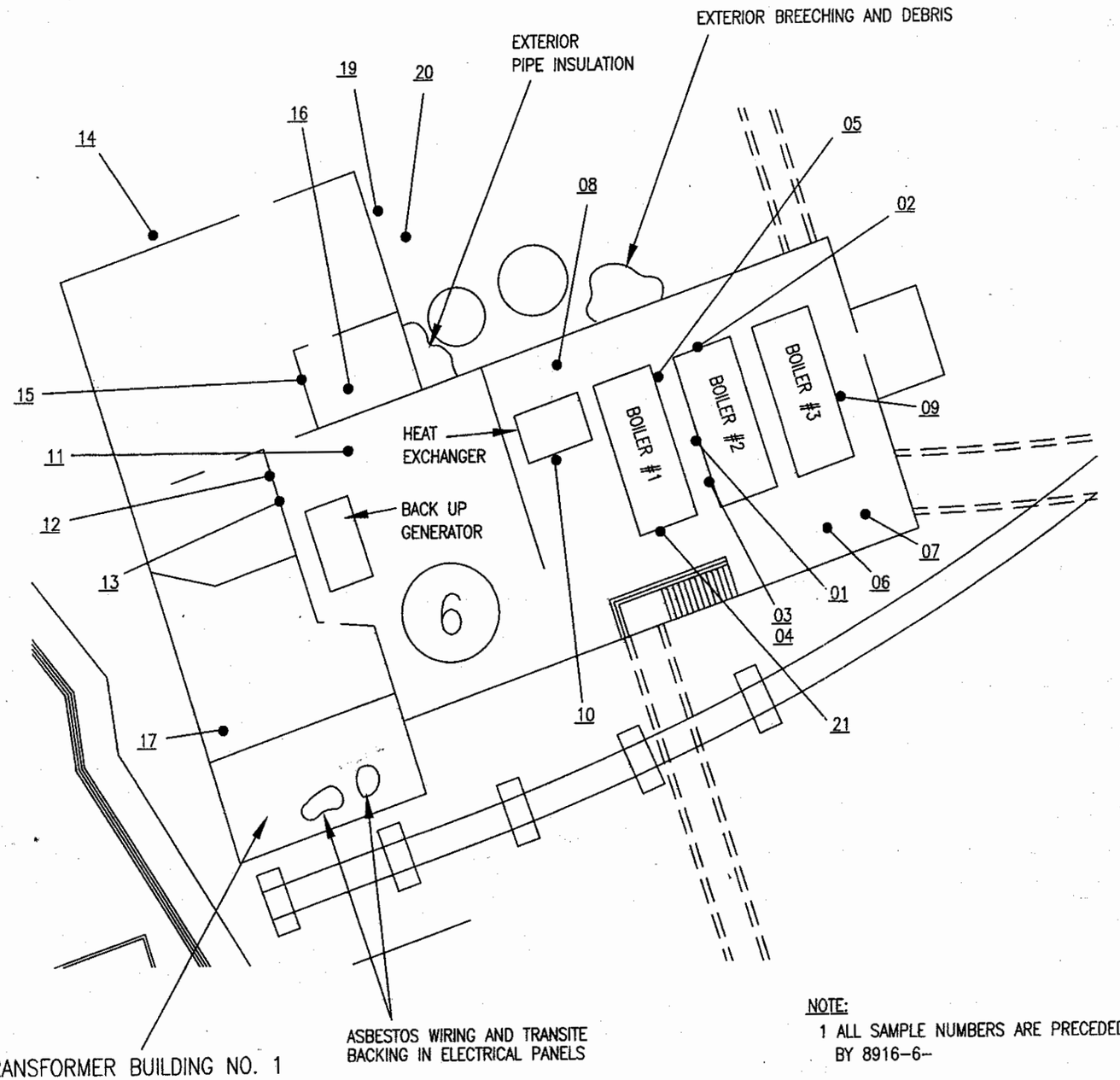
KEY PLAN

SL-1

CHARLESTOWN
BUILDINGS 11, 14 & 18
SAMPLE LOCATIONS

DATE: 5-14-95
DRAWN: JNS
NO.: 8916

JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Carlton Street, Buffalo, NY 14263 716-882-3903

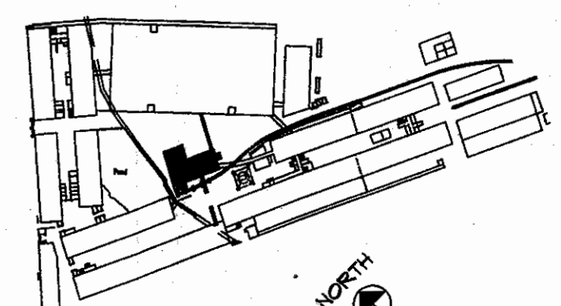


NOTE:

1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-6--

LEGEND

XX SAMPLE NUMBER



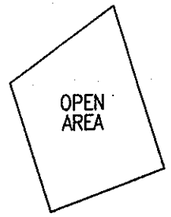
KEY PLAN

SL-3

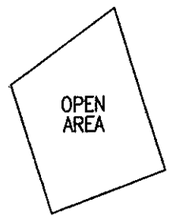
CHARLESTOWN
BUILDING 6
SAMPLE LOCATIONS

DATE: 5-14-95
DRAWN: JWS
NO.: 8916

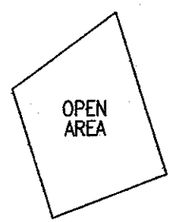
JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Carlton Street, Buffalo, NY 14263 716-882-3803



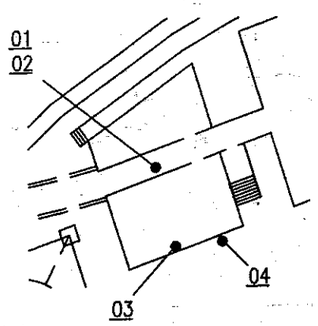
FOURTH FLOOR - 7



THIRD FLOOR - 7

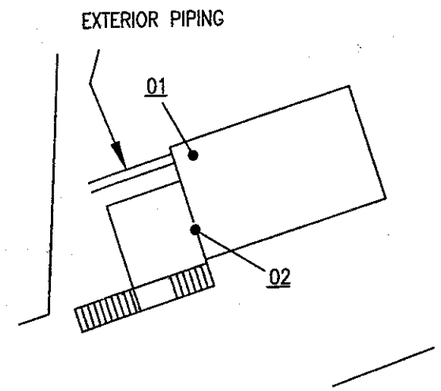


SECOND FLOOR - 7



FIRST FLOOR - 7

NOTE: - BUILDING 7
1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-7-

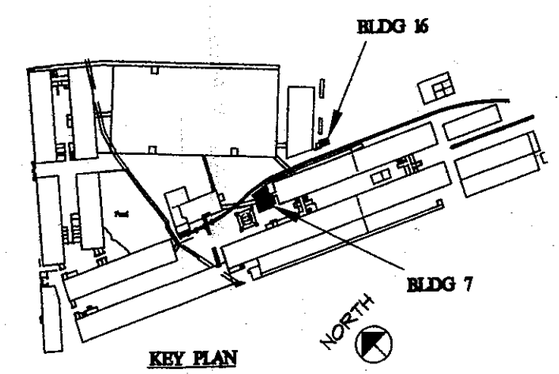


BLDG. - 16

NOTE: - BUILDING 16
1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-16-

LEGEND

XX SAMPLE NUMBER



KEY PLAN

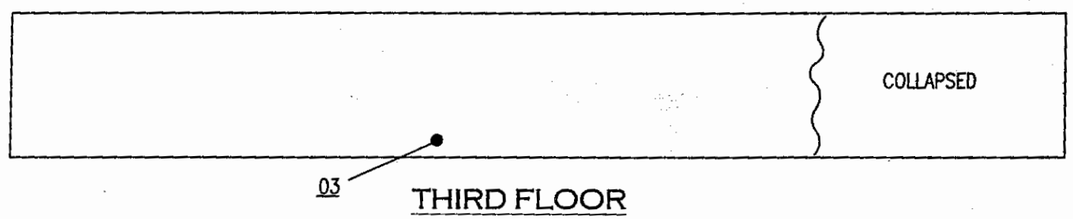
SL-4

CHARLES TOWN
BUILDINGS 7 & 16
SAMPLE LOCATIONS

DATE: 5-15-95
DRAWN: JWS
NO.: 8916

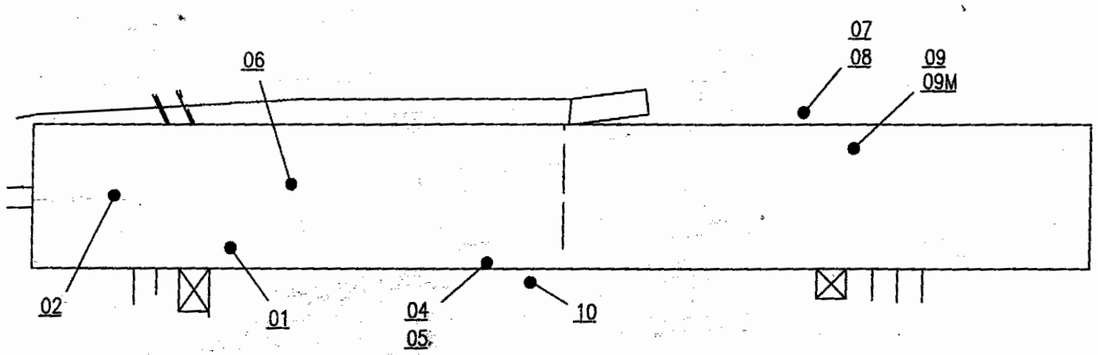
JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Carlton Street, Buffalo, NY 14263 716-882-3803

FOURTH FLOOR



THIRD FLOOR

SECOND FLOOR



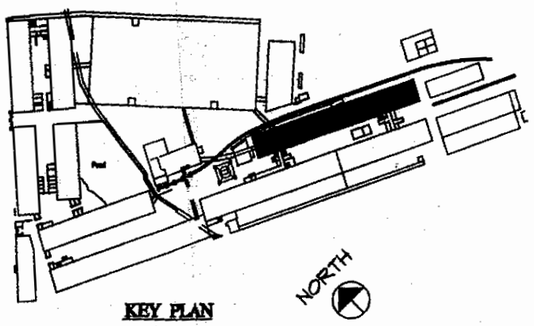
FIRST FLOOR

NOTE:

1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-5-

LEGEND

XX SAMPLE NUMBER

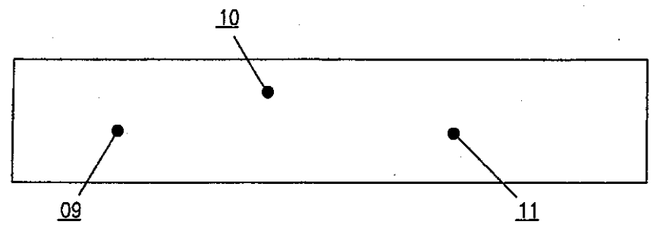


KEY PLAN

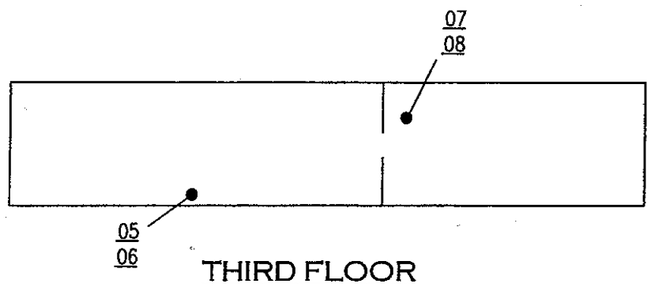
CHARLESTOWN
BUILDING 5
SAMPLE LOCATIONS

DATE: 5-15-95
DRAWN: JWS
NO.: 8916

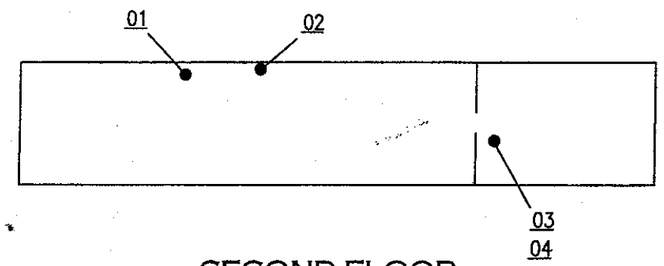
JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Carlton Street, Buffalo, NY 14263 716-882-3903



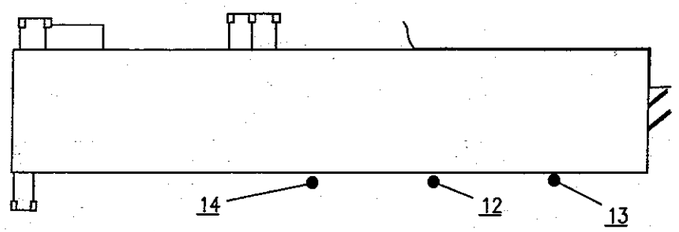
FOURTH FLOOR



THIRD FLOOR



SECOND FLOOR



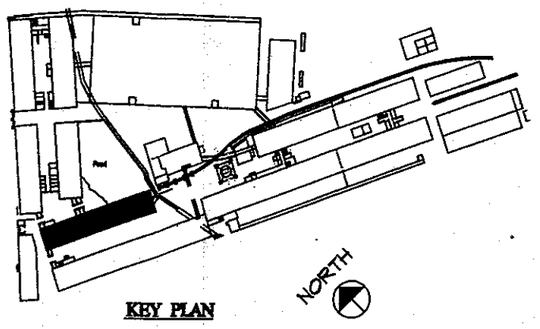
FIRST FLOOR

NOTE: -

1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-10-

LEGEND

XX SAMPLE NUMBER



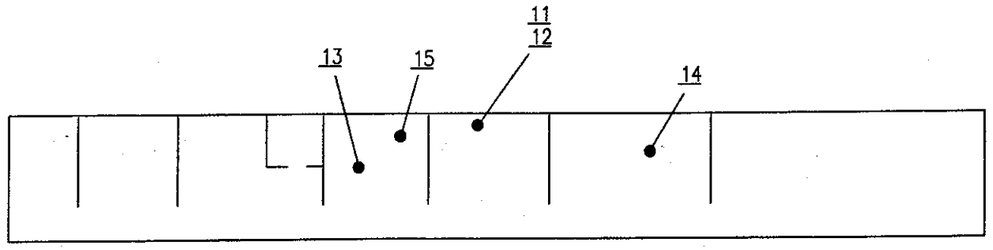
KEY PLAN

SL-6

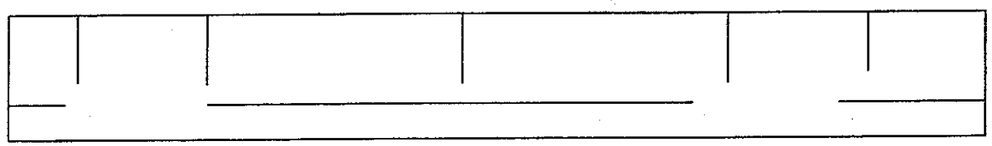
CHARLES TOWN
BUILDING 10
SAMPLE LOCATIONS

DATE: 5-15-95
DRAWN: JWS
NO.: 8916

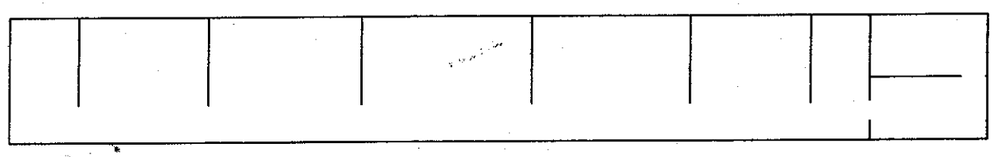
JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Carlton Street, Buffalo, NY 14263 716-882-3903



FOURTH FLOOR



THIRD FLOOR



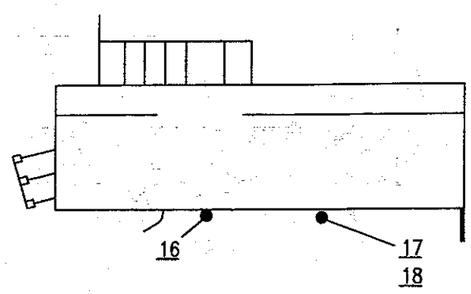
SECOND FLOOR

NOTE: -

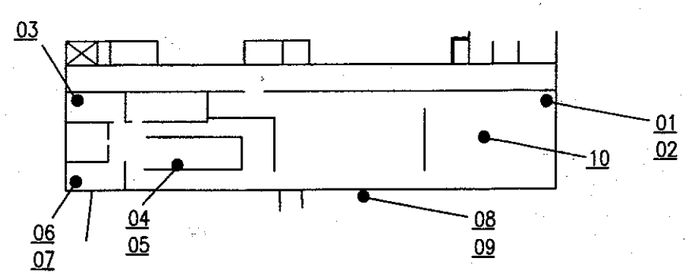
1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-12-

LEGEND

XX SAMPLE NUMBER

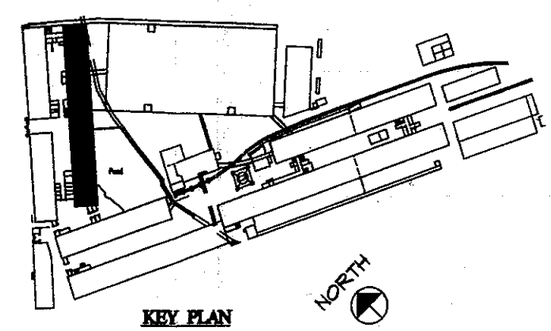


FIRST FLOOR SOUTH



FIRST FLOOR NORTH

(CHARLIE G. RESTAURANT)



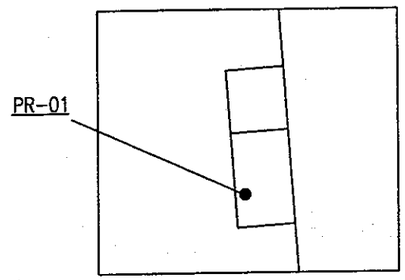
KEY PLAN

SL-7

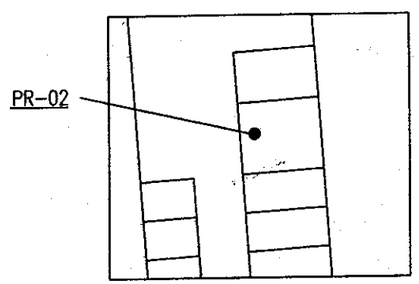
CHARLES TOWN
BUILDING 12
SAMPLE LOCATIONS

DATE: 5-15-95
DRAWN: JWS
NO.: 8916

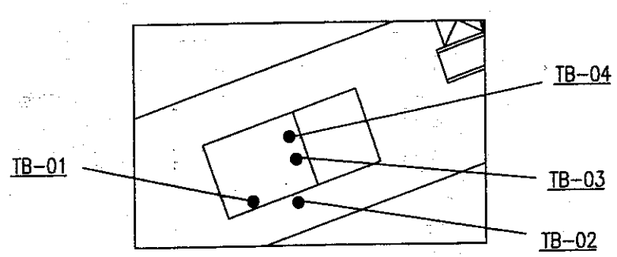
JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Carlton Street, Buffalo, NY 14203 716-882-3903



TRANSFORMER BUILDING 4



TRANSFORMER BUILDING 3



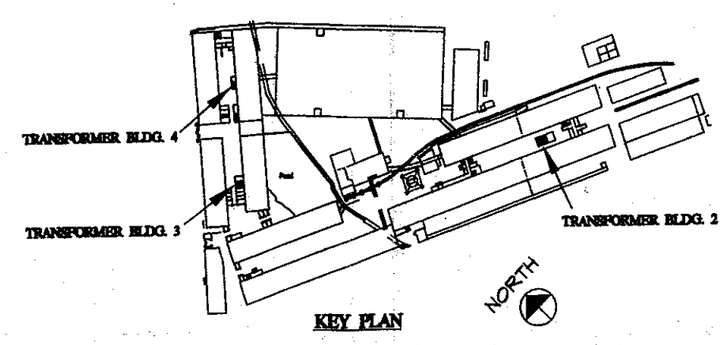
TRANSFORMER BUILDING 2

NOTE: -

1 ALL SAMPLE NUMBERS ARE PRECEDED BY 8916-

LEGEND

XX-XX SAMPLE NUMBER



KEY PLAN

SL-8

CHARLES TOWN
TRANSFORMER BUILDINGS 2,3 &4
SAMPLE LOCATIONS

DATE: 5-15-95
DRAWN: JWS
NO.: 8916

JACK EISENBACH ENGINEERING, P.C.
291 Genesee Street, Utica, NY 13501 315-735-1916
168 Corfton Street, Buffalo, NY 14263 716-882-3903

MUST BE CARRIED ON ASBESTOS PROJECTS

CERTIFICATE NUMBER	AH 92-13654
EXPIRES	
SOCIAL SECURITY NUMBER	126-70-8482
EYES	BLU
HAIR	BRO
WEIGHT	175 lbs.
HEIGHT	5 ft. 11 in.

ADDRESS CORRESPONDENCE TO:
(include certificate number)
NYS Department of Labor
DOSH - License and Certificate Unit
PO Box 687, New York, NY 10014-0687

010368C

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES

D - INSPECTOR (11/98)
H - PROJECT MONITOR (11/98)

ANTHONY J SCIALDONE
7 SYCAMORE DRIVE EAST
NEW HARTFORD, NY 13413

RICHARD CUCOLO, Director - For the Commissioner of Labor

DOSH-442 (01/91)

NEW YORK STATE DEPARTMENT OF HEALTH

BARBARA A. DEBUONO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 1999
ISSUED April 1, 1998
REVISED June 25, 1998

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

Lab ID No.: 11480

Director: DR. ROBERT TOMPKINS
Lab Name: SCIENTIFIC LABORATORIES INC-NEW YORK CITY
Address : 117 EAST 30TH ST
NEW YORK NY 10016

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/SOLID AND HAZARDOUS WASTE

All approved subcategories and/or analytes are listed below:

llaneous :
Asbestos In Friable Material
Asbestos In Non-Friable Materia

Serial No.: 102787

Wadsworth Center

Property of the New York State Department of Health. Valid only at the address shown.
Must be conspicuously posted. Valid certificate has a red serial number.

DOH-3317 (3/97)