0535076

Fed Trust

MALCOLM PIRNIE

MALCOLM PIRNIE, INC.
INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS & CONSULTANTS

March 22, 2001

Mr. David R. Atkins
Commissioner of Planning
Schenectady County Planning Department
Schaffer Heights, 107 Nott Terrace, Suite 303
Schenectady, New York

DRAFT

Re: Phase II Environmental Investigation
Union Street and South College Street Properties

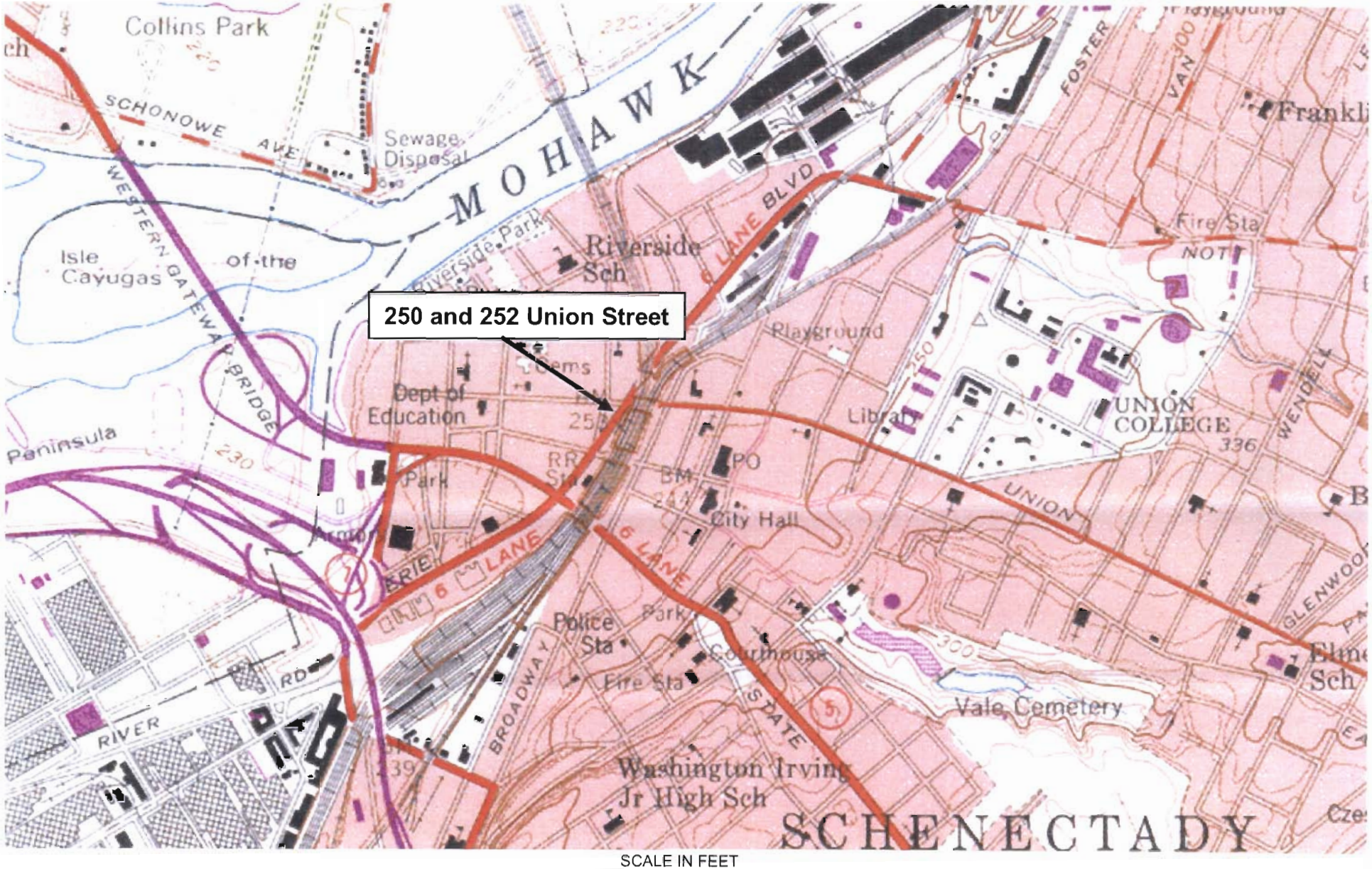
Dear Mr. Atkins:

Malcolm Pirnie, Inc. (Malcolm Pirnie) is pleased to present Schenectady County with the results of the Phase II Environmental Investigation performed at 250 Union Street and 252 Union Street, Schenectady, New York. As presented in our scope of work, dated December 22, 2000 this investigation was conducted to evaluate environmental conditions in and around the properties. This letter presents a summary of the evaluation conducted by Malcolm Pirnie and presents recommendations and conclusions.

SITE DESCRIPTION

As shown on Figure 1, 250 and 252 Union Street are located approximately 2,000 feet to the southeast of the Mohawk River. As shown on Figure 2, the properties are to the south of Union Street and 252 Union is bordered to the west by South College Street. They are located at the eastern end of Schenectady's Stockade District and to the west of the former Erie Canal, now Erie Boulevard. Each parcel is occupied by a two-story wood-framed structure that dates to the 19th Century. The foundations of the buildings are constructed of stone and the basement floors are predominantly earthen. A 250-gallon aboveground heating oil tank is present in the basement of 252 Union Street. The properties are served by municipal water and sewer. Surface water runoff flows into the municipal storm sewer system which flows to the Mohawk River.

The parcels are immediately to the west of the site of the former Ladd's Gas Station which operated from approximately 1922 through 1986. As shown on Figure 3, Grossmans Texaco Service Station, which operated from approximately 1949 through sometime in the 1970s, was located approximately 200 feet to the southeast. A Gulf Oil Service Station, which operated from approximately 1956 through 1969 was located at the corner of Erie Boulevard and Liberty Street, approximately 250 feet to the south. The area of the former Gulf Oil Service Station is now occupied by a Burger King restaurant.



SOURCE: U.S.G.S 7.5 MIN. SCHENECTADY QUAD, 1980

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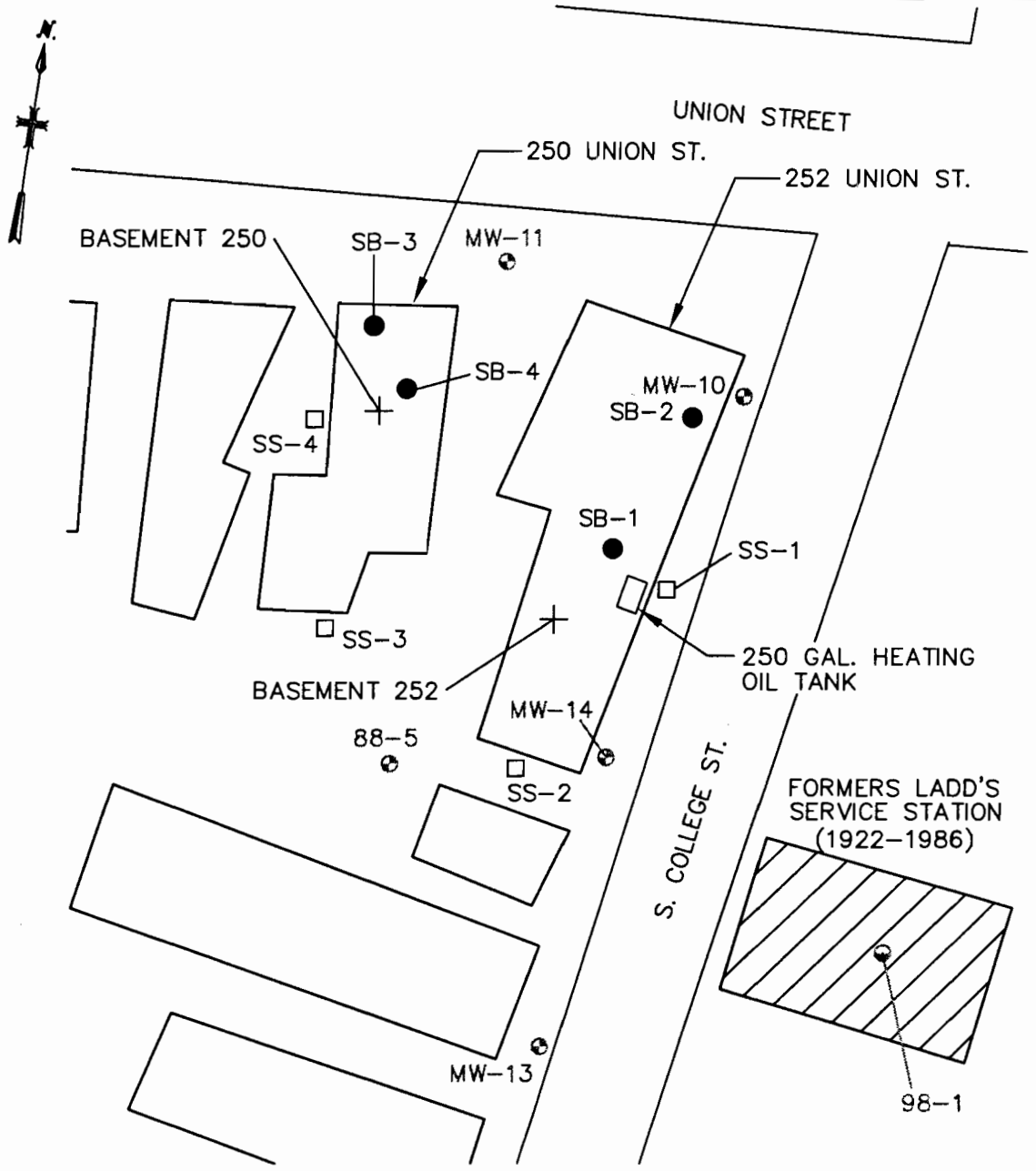
Phase II Union Street
SCHENECTADY, NEW YORK

LOCATION MAP

FIGURE 1



LEGEND

- 1" PVC GEOPROBE MONITORING WELL
- 2" PVC MONITORING WELL
- SOIL BORING
- AIR SAMPLING LOCATION
- SURFACE SOIL SAMPLE
- FORMER SERVICE STATION

APPROXIMATE SCALE IN FEET

0 12.5 25 50

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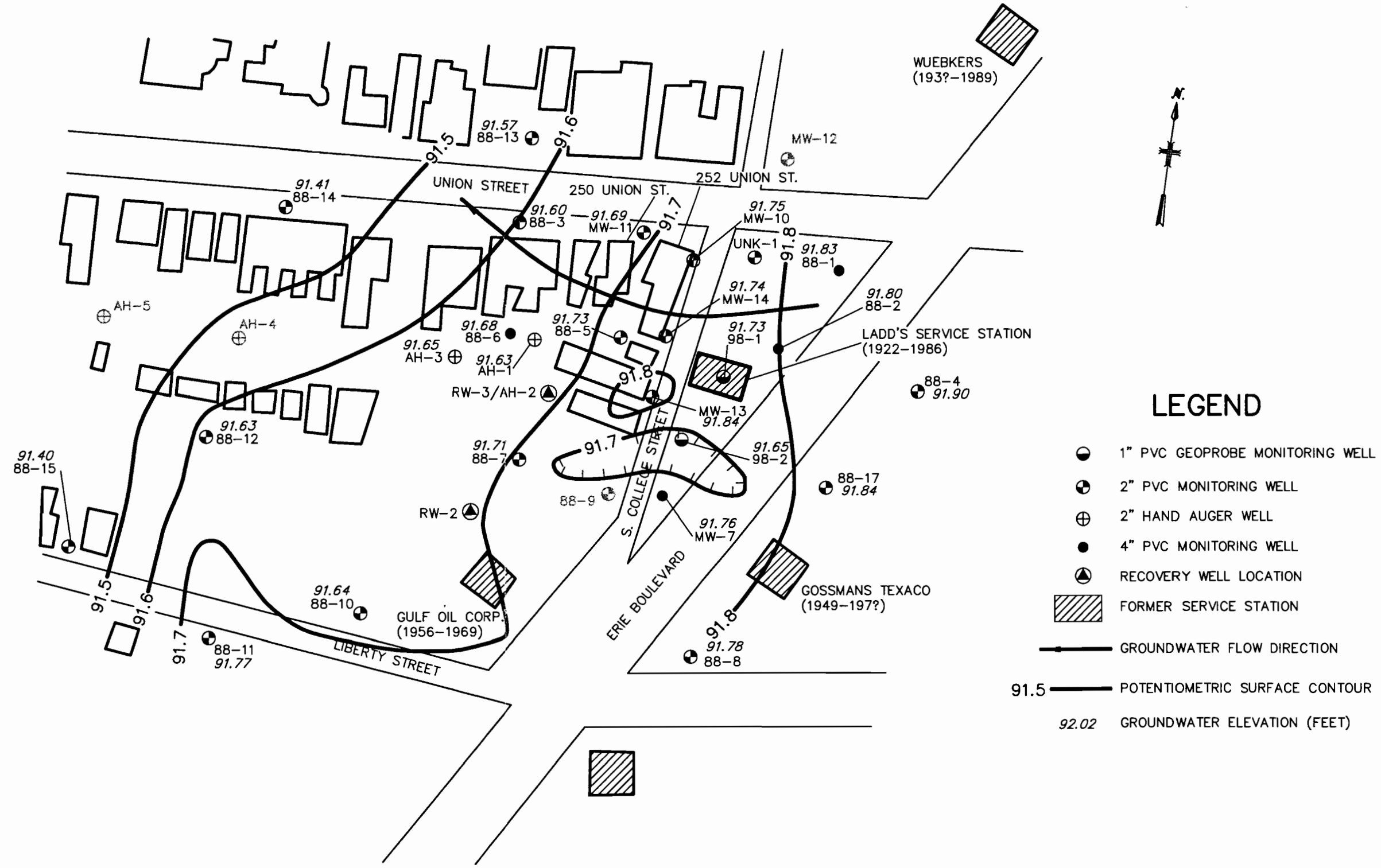
PHASE II UNION STREET
SCHENECTADY, NEW YORK

SITE MAP

FIGURE 2



LEGEND

- 1" PVC GEOPROBE MONITORING WELL
- 2" PVC MONITORING WELL
- 2" HAND AUGER WELL
- 4" PVC MONITORING WELL
- RECOVERY WELL LOCATION
- FORMER SERVICE STATION
- GROUNDWATER FLOW DIRECTION
- 91.5 POTENTIOMETRIC SURFACE CONTOUR
- *92.02* GROUNDWATER ELEVATION (FEET)

BASE MAP SOURCE: LINCOLN APPLIED GEOLOGY

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CITY OF SCHENECTADY, FORMER LADD'S GAS STATION
SCHENECTADY, NEW YORK

POTENTIOMETRIC SURFACE MAP, SEPTEMBER 3, 1998

FIGURE 3

Table 2
Summary Groundwater Sampling Results
Phase II Environmental Site Assessment, 250 and 252 Union Street
Schenectady, NY

Well ID Sample Date	NYSDEC Class GA Standard	88-5 7/22/98	88-5 2/26/01	MW-10 7/21/98	MW-10 2/26/01	MW-11 7/22/98	MW-11 2/26/01	MW-14 7/22/98	MW-14 2/26/01
Volatile Organic Compounds (ug/l)									
Chloromethane	5	500 U	100 U	10 U	NS	10 U	100 U	100 U	100 U
Acetone	50	500 U	100 U	25 J	NS	17 J	100 U	100 U	100 U
Chloroform	7	500 U	50 U	10 U	NS	10 U	50 U	100 U	50 U
Benzene	1	**8,000**	**2,456**	**920 D**	NS	**830 J**	**9,414**	**2,800 D**	**1,260**
Trichloroethene	5	500 U	50 U	10 U	NS	10 U	50 U	100 U	50 U
Bromodichloromethane	50	500 U	50 U	10 U	NS	10 U	50 U	100 U	50 U
Toluene	5	**13,800 D**	**1,041**	**17**	NS	**140 J**	**18,646**	**3,700 D**	**336**
Ethylbenzene	5	**3,800**	**361**	**80**	NS	**210 J**	**2,853**	**560**	**123**
Xylenes (total)	5	**12,500**	**1,101**	**330**	NS	**230 J**	**7,132**	**2,400**	**164**
PCBs (ug/l)	0.09	NA	0.1 U	NA	NS	NA	0.1 U	NA	0.1 U
Metals (ug/l)									
Lead	25	NA	**141**	NA	NS	NA	**107**	NA	**103**

U - Not detected at listed quantitation limit.

J - Estimated value.

D - Analyzed at a secondary dilution factor.

NS - Not sampled, well dry

NA - Not analyzed

Shaded areas indicates reported values exceeded NYSDEC Class GA Standard

Table 3
Summary of Surface Soil and Soil Boring Sampling Results
Phase II Environmental Site Assessment, 250 and 252 Union Street
Schenectady, NY

Sample Location Depth Sample Date	Recommended Soil Cleanup Objective	SB-1 0-2' 02/26/01	SB-2 0-1' 02/26/01	SB-3 0-0.5' 02/26/01	SB-4 0-1' 02/26/01	SS-1 02/26/01	SS-2 02/26/01	SS-3 02/26/01	SS-4 02/26/01
Volatile Organic Compounds (ug/kg)									
n-Propylbenzene	—	ND	ND	ND	20	NA	NA	NA	NA
Benzene	60	ND	ND	43	ND	NA	NA	NA	NA
1,2,4-Trimethylbenzene	—	ND	ND	ND	122	NA	NA	NA	NA
Toluene	1,500	ND	ND	149	86	NA	NA	NA	NA
Ethylbenzene	5,500	ND	ND	17	48	NA	NA	NA	NA
o-Xylene	1,200	ND	16	ND	44	NA	NA	NA	NA
m/p-Xylene	1,200	ND	ND	23	134	NA	NA	NA	NA
MTBE	120	ND	ND	**144**	94	NA	NA	NA	NA
Semivolatile Organic Compounds (ug/kg)		ND	ND	ND	ND	NA	NA	NA	NA
RCRA Metals (mg/kg)									
Arsenic	7.5	NA	NA	NA	NA	**8.8**	**8.1**	3.7	**8.6**
Barium	300	NA	NA	NA	NA	**397**	**619**	**580**	**968**
Cadmium	1	NA	NA	NA	NA	**6.4**	**2.8**	**3.5**	**3.5**
Chromium	10	NA	NA	NA	NA	**31**	**37**	**17**	**22**
Lead	200-500*	NA	NA	NA	NA	**4,030**	**3,250**	**2,360**	**4,740**
Mercury	0.1	NA	NA	NA	NA	**0.3**	**1.8**	**1.1**	**0.3**
Selenium	2	NA	NA	NA	NA	0.1	0.2	ND	0.3
Silver	—	NA	NA	NA	NA	ND	ND	ND	ND

ND - Not detected

NA - Not Analyzed

* - Average background concentration in metropolitan or sburban areas or near highways.

Shaded areas indicates reported values exceeded recommended soil cleanup objectives.

Table 4
Summary of Basement and Ambient Air Sampling Results
Phase II Environmental Site Assessment, 250 and 252 Union Street
Schenectady, NY

Sample ID	Ambient	250 Union Street	250 Union Street	252 Union Street	USEPA Region III RBC	NYSDOH 95th Percentile (a)			NYSDOH Median Concentration (a)		
Date	8/13-14/98	8/13-14/98	2/26-2/27/01	2/26-2/27/01		Basment	Living Area	Outside	Basment	Living Area	Outside
BTEX (ug/L)											
Benzene	ND	ND	ND	ND	—	—	—	—	—	—	—
Toluene	0.0097	**0.012**	ND	ND	0.42	0.049	0.045	0.058	0.010	0.015	< 0.0056
Ethylbenzene	ND	ND	ND	ND	—	—	—	—	—	—	—
Xylenes (total)	0.012	**0.011**	ND	ND	7.3	0.018*	0.022*	0.013*	0.005*	0.0048*	0.0044*

All samples analyzed for BTEX compounds by EPA Method TO-3.
(a) Per NYSDOH Background Indoor/Outdoor Air Levels of Volatile Organic Compounds in Homes Sampled by the NYSDOH (1989-1996).
* For m and p-xylenes only.
ug/L - micrograms per liter
ND - Not Detected

The parcels are located within the Mohawk River Flood Plain deposits (Caldwell, et al., 1987). Overburden soil is predominantly alluvial silty sands with occasional clay lenses. The thickness of the overburden is unknown, however, soil borings in the area have not encountered bedrock within 30 feet of the ground surface (Malcolm Pirnie, 2000). The depth to groundwater in the area of the parcels is approximately eight to 10 feet below ground surface (bgs). Groundwater flow is generally to the west, toward the Mohawk River (Malcolm Pirnie, 2000) as shown on Figure 3. Environmental investigations associated with the former Ladd's Gas Station have documented the presence of a plume of groundwater containing petroleum compounds that extends from the former station approximately 500 feet to the west, including the area of 250 and 252 Union Street.

GROUNDWATER SAMPLING

On February 26, 2001 Malcolm Pirnie collected groundwater samples from three monitoring wells (MW-11, MW-14, and 88-5) which are located around the properties. Monitoring well MW-10 could not be sampled as it was dry. Monitoring well purge logs are included as Attachment 1. The locations of the monitoring wells are shown on the Figure 2. Prior to groundwater sampling, groundwater levels were measured in each well using an oil-water interface probe. Light Non-Aqueous Phase Liquids (LNAPL), or free product, was not present in any of the monitoring wells sampled. Although LNAPL was not present in monitoring well 88-5, its presence or absence on the adjacent water table could not be confirmed as the water level in 88-5 was above the top of the screened interval for this well. Monitoring well construction and groundwater elevations are summarized in Table 1. Groundwater samples were collected utilizing the United States Environmental Protection Agency (USEPA) Low-Flow Sampling Protocol. Groundwater samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs) including methyl tertiary butyl ether (MTBE), polychlorinated biphenyls (PCBs), and lead by Hudson Environmental Services Inc. (Hudson Environmental) using USEPA SW846 analytical methods. Analytical results are summarized in Table 2 and the analytical reporting forms are included as Attachment 2.

SURFACE SOIL SAMPLING

Four surface soil samples were collected by Malcolm Pirnie to evaluate potential impacts to surface soils from metal-based paints and analyzed for the eight Resource Conservation and Recovery Act (RCRA)-listed metals by Hudson Environmental. The results of these samples are summarized in Table 3. Surface soil sampling locations are shown on Figure 2.

Table 1
Groundwater Monitoring Well Information
Phase II Union Street
Schenectady, New York

Well	1998 Reference Elevation (a)	Previous Reference Elevation (b)	Constructed Total Depth (feet, bgs) (b)	Measured Total Depth (feet, bgs)	Screen Interval (feet, bgs) (c)	Diameter	Well Material	12/07/94		07/20/98		09/03/98		02/26/01	
								DTW (feet)	Groundwater Elevation (feet)	DTW (feet)	Groundwater Elevation (feet)	DTW (feet)	Groundwater Elevation (feet)	DTW (feet)	Groundwater Elevation (feet)
88-5	101.00	100.67	20.0	16.7	10 - 20	2-inch	PVC	9.92	91.08	8.92	92.08	9.27	91.73	9.15	91.85
MW-10	99.88	99.88	15.0	8.4	5 - 15	2-inch	PVC	Dry	---	7.56	92.32	8.13	91.75	Dry	---
MW-11	100.14	99.93	15.0	14.4	5 - 15	2-inch	PVC	9.08	91.06	8.05	92.09	8.45	91.69	9.29	90.85
MW-14	100.45	100.21	15.0	12.4	5 - 15	2-inch	PVC	9.03	91.42	8.35	92.10	8.71	91.74	9.16	91.29

Notes: (a) September 1998 survey.
(b) As reported by Lincoln Applied Geology.

BASEMENT SOIL SAMPLING

Two shallow soil borings were advanced in the basements of 250 and 252 Union Street using a stainless steel hand auger. Soil collected from the borings was screened for volatile organic vapors with a photoionization detector (PID) and visually inspected for discoloration. No volatile organic compounds were detected with the PID and no staining was observed. One soil sample was collected from each boring and analyzed for New York State Spill Technology and Remediation Series Memorandum No. 1 (STARS) VOCs and Semi-Volatile Organic Compounds (SVOCs) by Hudson Environmental. Soil sampling results are summarized in Table 3. Soil boring locations are shown on Figure 2.

AMBIENT AIR SAMPLING

Ambient air samples were collected from the basement of 250 Union Street and 252 Union Street over a 24-hour period using 6-liter stainless steel Summa canister sampling devices. Air sampling locations are shown in Figure 2. Air samples were analyzed by Air Toxics Ltd. (Air Toxics) for the petroleum constituents benzene, toluene ethylbenzene, and xylene (BTEX) using USEPA Method TO-3. Results of the air sampling are summarized in Table 4 and Air Toxics reporting forms are included as Attachment 3.

ASBESTOS AND LEAD-BASED PAINT SURVEY

An asbestos and lead-based paint survey was conducted at each of the properties by Testwell Laboratories, Inc. (Testwell) under subcontract to Malcolm Pirnie. This survey included visual inspection of the structures and the analysis of building materials for asbestos and lead-based paint. The results of this survey are included in Testwell's report, which is included as Attachment 4.

FINDINGS

Groundwater Sampling

As shown in Table 2, several petroleum-related VOCs (benzene, toluene, ethylbenzene, and xylenes, [BTEX]) were present in groundwater samples at concentrations above their respective New York State Department of Environmental Conservation (NYSDEC) Class GA Standard. In some instances the concentration of compounds exceeded the Class GA Standard by as much as four orders of magnitude. For comparison, Table 2 also presents the analytical results for groundwater samples collected in 1998. The concentration of petroleum compounds generally decreased in samples from monitoring wells 88-5 and MW-14 and increased in the sample from monitoring well MW-11. However, present

concentrations of BTEX are still significantly above Class GA Standards in the groundwater samples from all three wells.

Groundwater samples did not contain detectable concentrations of PCBs.

Lead was present in groundwater samples collected from the three monitoring wells at concentrations above the Class GA Standard. Lead concentrations ranged from 103 µg/l in MW-14 to 141 µg/l in 88-5 as compared to the Class GA Standard of 25 µg/l. As mentioned previously, the Ladd's Gas Station operated from approximately 1922 through 1986. During most of this period lead was commonly used as an additive to gasoline. The most likely source of the lead in these groundwater samples is the gasoline released from the Ladd's site.

Soil Sampling

As shown in Table 3, several petroleum-related VOCs were present in some of the soil samples collected from the building's basements. In 252 Union Street, the sample from soil boring SB-1 did not contain any detectable VOCs or SVOCs. The sample from soil boring SB-2 contained only one VOC, o-xylene, at a concentration of 16 µg/kg which is below the New York State Department of Environmental Conservation Technical and Administrative Guidance Memorandum (TAGM) No. 4046 Recommended Soil Cleanup Objective of 1,200 µg/kg. As shown in Table 3, in the basement of 250 Union Street, samples from soil borings SB-3 and SB-4 contained several petroleum-related VOCs. No SVOCs were present in these samples. Of the VOCs present in these soil samples, only one, MTBE, was present at a concentration greater than its respective TAGM value. The concentration of MTBE in SB-3 was 144 µg/kg, compared to the TAGM value of 120 µg/kg. MTBE was not detected in any of the groundwater samples collected during this investigation, nor was MTBE detected in petroleum-contaminated soil samples collected as part of a previous environmental investigation of the Ladd's site (Malcolm Pirnie, 2000). This suggests that the MTBE in soil samples from soil borings SB-3 and SB-4 may not be related to the former Ladd's Gas Station.

As shown in Table 3, five of the eight RCRA metals (barium, cadmium, chromium, lead, mercury, and selenium) were present in all four of the surface soil samples at concentrations greater than their respective TAGM Recommended Soil Cleanup Objective. Arsenic was present in three of the four surface soil samples at concentrations greater than its respective TAGM Recommended Soil Cleanup Objective. Elevated concentrations of these metals are likely related to paints that have been applied to the siding of the 250 and 252 Union Street buildings. A portion of the lead in the surface soils may also be from automobile emissions when leaded gasoline was in use.

- Lead concentrations ranged from 2,360 to 4,740 mg/kg compared to average background concentrations for metropolitan and suburban areas of 200 to 500 mg/kg. Lead concentrations were also greater than USEPA recommendations (USEPA, 1996). The USEPA guidance for non-residential exposures ranges from approximately 850 to 1500 mg/kg.

- Arsenic concentrations ranged from 3.7 to 8.8 mg/kg compared to its TAGM value of 7.5 mg/kg.

- Barium concentrations ranged from 387 to 968 mg/kg compared to its TAGM value of 300 mg/kg.

- Cadmium concentrations ranged from 2.8 to 6.4 mg/kg compared to its TAGM value of 1 mg/kg.

- Chromium concentrations ranged from 17 to 37 mg/kg compared to its TAGM value of 10 mg/kg.

- Mercury concentrations ranged from 0.3 to 1.8 mg/kg compared to its TAGM value of 0.1 mg/kg.

Air Sampling

Analytical results for basement air sampling are summarized in Table 4. No VOCs were detected in the air samples. For comparison, Table 4 also presents the results of basement air sampling conducted in 1998 in 250 Union Street. In 1998, toluene and xylenes were present in the air sample. As shown in Table 4, these compounds were present at concentrations similar to a sample of ambient outdoor air collected at the same time. The concentrations of toluene and xylenes were also less than USEPA Risk Based Concentrations and within the range of background or ambient concentrations detected by the New York State Department of Health (NYSDOH, 1997).

Asbestos and Lead-based Paint Survey

Testwell collected and analyzed 11 building material samples of suspect asbestos containing materials (ACM) from 250 Union Street and 10 samples from 252 Union Street. Three of the 11 samples from 250 Union Street contained asbestos fibers. These samples were of exterior transite siding, exterior roofing materials, and interior linoleum flooring. One of the 10 samples from 252 Union Street contained asbestos fibers. This sample was of pipe insulation in the basement crawl space. Testwell estimated asbestos removal costs of $20,500 and $8,500 for 250 and 252 Union Streets, respectively.

Testwell collected and analyzed 12 paint samples from 250 Union Street and nine samples from 252 Union Street. For the samples from 250 Union Street the lead percentage by weight ranged from less than 0.05 to 23.9. Ten of the 12 samples contained greater than 0.5 percent lead, the level at which Housing and Urban Development recommends abatement. For the samples from 252 Union Street the lead percentage by weight ranged from less than 0.05 to 50.7. Seven of the nine samples contained greater than 0.5 percent lead.

CONCLUSIONS

The properties at 250 and 252 Union Street are underlain by groundwater that has been adversely affected by a release of gasoline from the former Ladd's Gas Station. As a result, the concentration of BTEX compounds in the groundwater under these properties is as much as four orders of magnitude greater than the NYSDEC Class GA Standard. Previous investigations (Malcolm Pirnie, 2000) have demonstrated that natural attenuation of the BTEX compounds is occurring, however, groundwater quality is not likely to reach Class GA Standards in the short-term as a result of natural attenuation. Under current- and likely future-use scenarios, human contact with the groundwater beneath the properties is unlikely.

Based on visual inspection and soil sampling conducted in the basements of both 250 and 252 Union Street, heating oil has not been released to the environment at either of these locations. The absence of SVOCs, which are common constituents of heating oil, indicates that a release of heating oil has not occurred in these basements. Thus, these properties do not appear to have contributed to the presence of petroleum-related compounds present in groundwater samples collected from nearby monitoring wells. The low concentrations of several VOCs in soil samples SB-2 through SB-4 do not represent a significant environmental concern. Based on the sampling results, it is unlikely that the NYSDEC would require any remedial action for these soils.

Due to the presence of elevated concentrations of metals in the surface soil on the 250 and 252 Union Street parcels, it is recommended that this soil be removed or isolated by the installation of a barrier to prevent casual contact. Any such activities should be coordinated with the NYSDOH and the NYSDEC. Based on the concentration of lead in the soil samples, disposal of this soil should include testing by the Toxicity Characteristic Leaching Procedure (TCLP) for metals to evaluate if the soil is characteristically a hazardous waste in accordance with 40 CFR Part 261.

Air quality in the basements of the structures at 250 and 252 Union Street is consistent with ambient air quality in the neighborhood and with ambient air quality in background settings sampled by the NYDOH. However, due to the presence of a BTEX groundwater

plume beneath the properties, it is recommended that any renovation or reuse of the buildings include measures to reduce the potential for the infiltration of volatile petroleum compounds into the structures. Such vapors can be controlled by the use of impermeable barriers and, as necessary, passive or active venting.

Abatement of the identified asbestos and lead-based paint is not a regulatory requirement, unless these materials are removed or disturbed during the renovation of the buildings. If asbestos of lead-based painted materials are removed, this material should be disposed of appropriately permitted facilities. Testing of lead-based painted materials that are removed is recommended to confirm that they are not characteristically hazardous due to lead. Based on the analytical results disposal costs can be minimized.

We appreciate the opportunity to assist the County with this project. If you have any questions concerning this report or require any additional information, please feel free to call me at (518) 786-7349.

Very truly yours,

MALCOLM PIRNIE, INC.

DRAFT

Bruce R. Nelson, C.P.G.
Associate

caw
Attachments
F:\PROJECT\0533076\DOC\REPORT\ATKINS.DOC

ATTACHMENT 1

Monitoring Well Purge Logs

Monitoring Well Development/Purging Log

Well No. 88-5

PROJECT NAME: Phase II Union Street and South College Street
PROJECT LOCATION: Schenectady, New York
PROJECT NUMBER: 533076
DATE: 02/26/2000
SAMPLER(S): M. Bokus

A Total Casing and Screen Length (ft.) _____

B Casing Internal Diameter (in.) _____

C Water Level Below Top of Casing (ft.) 9.15

D Volume of Water in Casing - includes annulus (gal.) _____

PARAMETER	ACCUMULATED VOLUME PURGED										
Date											
Time	1045	1050	1055	1100	1105	1110					
Conductivity (ms/sec)	2.31	2.25	2.12	2.01	1.97	1.96					
Dissolved Oxygen (ppm)	0.68	0.18	0.03	0.00	0.00	0.00					
pH (S.U.s)	6.64	6.88	6.92	6.95	6.95	6.97					
Temp (C)	9.32	9.56	9.57	9.52	9.46	9.42					
Turbidity (NTUs)	3.2	2.7	0.5	0.8	0.9	1.0					
ORP	-4	-88	-124	-143	-149	-150					

PHOTO TAKEN — X YES / NO — Photo Number:

PID READING: NR

COMMENTS:
Begin purging at 1043
Flow rate 150 ml/min
Collect sample at 1112
Purge water clear with strong odor

Monitoring Well Development/Purging Log

Well No. MW-11

PROJECT NAME: Phase II Union Street and South College Street
PROJECT LOCATION: Schenectady, New York
PROJECT NUMBER: 533076
DATE: 02/26/2000
SAMPLER(S): M. Bokus

A Total Casing and Screen Length (ft.) _____

B Casing Internal Diameter (in.) _____

C Water Level Below Top of Casing (ft.) 9.29

D Volume of Water in Casing - includes annulus (gal.) _____

PARAMETER	ACCUMULATED VOLUME PURGED										
Date											
Time	1147	1153	1158	1203	1208						
Conductivity (ms/sec)	1.73	1.50	1.43	1.39	1.37						
Dissolved Oxygen (ppm)	0.00	0.00	0.00	0.00	0.00						
pH (S.U.s)	7.02	7.12	7.15	7.16	7.18						
Temp (C)	9.03	9.16	9.00	9.11	9.23						
Turbidity (NTUs)	8.7	2.2	1.0	1.1	1.5						
ORP	-73	-94	-102	-108	-111						

PHOTO TAKEN — YES — Photo Number:
X — NO

PID READING: NR

COMMENTS:
Begin purging at 1142
Flow rate 120 ml/min
Collect sample at 1212
Purge water clear, trace amount of suspended particles, slight odor.

Monitoring Well Development/Purging Log

Well No. MW-14

PROJECT NAME: Phase II Union Street and South College Street
PROJECT LOCATION: Schenectady, New York
PROJECT NUMBER: 533076
DATE: 02/26/2000
SAMPLER(S): M. Bokus

A Total Casing and Screen Length (ft.) _____

B Casing Internal Diameter (in.) _____

C Water Level Below Top of Casing (ft.) 9.16

D Volume of Water in Casing - includes annulus (gal.) _____

PARAMETER	ACCUMULATED VOLUME PURGED										
Date											
Time	1245	1250	1255	1300	1305	1310	1315				
Conductivity (ms/sec)	3.21	3.35	3.34	3.26	3.27	3.25	3.21				
Dissolved Oxygen (ppm)	0.19	0.05	0.10	0.10	0.07	0.06	0.04				
pH (S.U.s)	6.85	6.82	6.84	6.89	6.93	6.95	6.98				
Temp (C)	8.94	9.30	9.29	9.53	9.80	9.82	9.79				
Turbidity (NTUs)	6.9	2.7	4.4	8.3	8.5	9.0	9.2				
ORP	-47	-52	-72	-84	-90	-94	-97				

PHOTO TAKEN — X YES / NO — Photo Number:

PID READING: NR

COMMENTS:
Begin purging at 1242
Flow rate 120 ml/min
Collect sample at 1318
Purge water clear, slight odor.

ATTACHMENT 2

Analytical Results

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

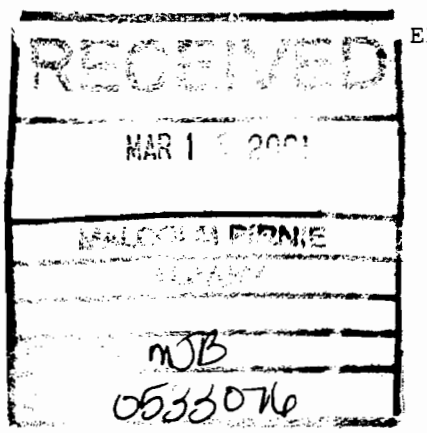
HES

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. LAB ID#11140

CLIENT: Malcolm Pirnie
SAMPLE DESCRIPTION: MW-11
MATRIX: Groundwater
LOCATION: Phase II Union Street
H.E.S.#: 010227I01

DATE SAMPLED: 02/26/01
TIME SAMPLED: 1142
DATE SAMPLE RECD: 02/27/01
TYPE SAMPLE: Not Specified
SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
Chloromethane	SW846-8260B	<100	ug/l	03/08/01
Vinyl Chloride	SW846-8260B	<100	ug/l	03/08/01
Bromomethane	SW846-8260B	<100	ug/l	03/08/01
Chloroethane	SW846-8260B	<100	ug/l	03/08/01
1,1-Dichloroethene	SW846-8260B	<50	ug/l	03/08/01
Acetone	SW846-8260B	<100	ug/l	03/08/01
Carbon Disulfide	SW846-8260B	<50	ug/l	03/08/01
Methylene Chloride	SW846-8260B	<50	ug/l	03/08/01
1,2-Dichloroethene trans	SW846-8260B	<50	ug/l	03/08/01
cis-1,2-Dichloroethene	SW846-8260B	<50	ug/l	03/08/01
1,1-Dichloroethane	SW846-8260B	<50	ug/l	03/08/01
2-Butanone	SW846-8260B	<100	ug/l	03/08/01
Chloroform	SW846-8260B	<50	ug/l	03/08/01
1,1,1-Trichloroethane	SW846-8260B	<50	ug/l	03/08/01
Carbon Tetrachloride	SW846-8260B	<50	ug/l	03/08/01
Benzene	SW846-8260B	9,414	ug/l	03/08/01
1,2-Dichloroethane	SW846-8260B	<50	ug/l	03/08/01
Trichloroethene	SW846-8260B	<50	ug/l	03/08/01
1,2-Dichloropropane	SW846-8260B	<50	ug/l	03/08/01
Bromodichloromethane	SW846-8260B	<50	ug/l	03/08/01
cis-1,3-Dichloropropene	SW846-8260B	<50	ug/l	03/08/01
4-Methyl-2-Pentanone	SW846-8260B	<100	ug/l	03/08/01
2-Hexanone	SW846-8260B	<100	ug/l	03/08/01
Toluene	SW846-8260B	18,646	ug/l	03/08/01
trans-1,3-Dichloropropene	SW846-8260B	<50	ug/l	03/08/01
1,1,2-Trichloroethane	SW846-8260B	<50	ug/l	03/08/01
Tetrachloroethene	SW846-8260B	<50	ug/l	03/08/01
Dibromochloromethane	SW846-8260B	<50	ug/l	03/08/01
Chlorobenzene	SW846-8260B	<50	ug/l	03/08/01
Ethylbenzene	SW846-8260B	2,853	ug/l	03/08/01
m-Xylene/p-Xylene	SW846-8260B	4,788	ug/l	03/08/01
o-Xylene	SW846-8260B	2,344	ug/l	03/08/01
Styrene	SW846-8260B	<50	ug/l	03/08/01
Bromoform	SW846-8260B	<50	ug/l	03/08/01
1,1,2,2-Tetrachloroethane	SW846-8260B	<50	ug/l	03/08/01
MTBE	SW846-8260B	<50	ug/l	03/08/01
Total PCB's	SW846-8082	<0.1	ug/l	03/12/01
Lead	EPA 239.2	107	ug/l	02/28/01



HUDSON ENVIRONMENTAL SERVICES, INC.
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Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Malcolm Pirnie

DATE SAMPLED: 02/26/01

SAMPLE DESCRIPTION: MW-14

TIME SAMPLED: 1318

MATRIX: Groundwater

DATE SAMPLE RECD: 02/27/01

LOCATION: Phase II Union Street

TYPE SAMPLE: Not Specified

H.E.S.#: 010227I02

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
Chloromethane	SW846-8260B	<100	ug/l	03/08/01
Vinyl Chloride	SW846-8260B	<100	ug/l	03/08/01
Bromomethane	SW846-8260B	<100	ug/l	03/08/01
Chloroethane	SW846-8260B	<100	ug/l	03/08/01
1,1-Dichloroethene	SW846-8260B	<50	ug/l	03/08/01
Acetone	SW846-8260B	<100	ug/l	03/08/01
Carbon Disulfide	SW846-8260B	<50	ug/l	03/08/01
Methylene Chloride	SW846-8260B	<50	ug/l	03/08/01
1,2-Dichloroethene trans	SW846-8260B	<50	ug/l	03/08/01
cis-1,2-Dichloroethene	SW846-8260B	<50	ug/l	03/08/01
1,1-Dichloroethane	SW846-8260B	<50	ug/l	03/08/01
2-Butanone	SW846-8260B	<100	ug/l	03/08/01
Chloroform	SW846-8260B	<50	ug/l	03/08/01
1,1,1-Trichloroethane	SW846-8260B	<50	ug/l	03/08/01
Carbon Tetrachloride	SW846-8260B	<50	ug/l	03/08/01
Benzene	SW846-8260B	1,206	ug/l	03/08/01
1,2-Dichloroethane	SW846-8260B	<50	ug/l	03/08/01
Trichloroethene	SW846-8260B	<50	ug/l	03/08/01
1,2-Dichloropropane	SW846-8260B	<50	ug/l	03/08/01
Bromodichloromethane	SW846-8260B	<50	ug/l	03/08/01
cis-1,3-Dichloropropene	SW846-8260B	<50	ug/l	03/08/01
4-Methyl-2-Pentanone	SW846-8260B	<100	ug/l	03/08/01
2-Hexanone	SW846-8260B	<100	ug/l	03/08/01
Toluene	SW846-8260B	336	ug/l	03/08/01
trans-1,3-Dichloropropene	SW846-8260B	<50	ug/l	03/08/01
1,1,2-Trichloroethane	SW846-8260B	<50	ug/l	03/08/01
Tetrachloroethene	SW846-8260B	<50	ug/l	03/08/01
Dibromochloromethane	SW846-8260B	<50	ug/l	03/08/01
Chlorobenzene	SW846-8260B	<50	ug/l	03/08/01
Ethylbenzene	SW846-8260B	123	ug/l	03/08/01
m-Xylene/p-Xylene	SW846-8260B	164	ug/l	03/08/01
o-Xylene	SW846-8260B	<50	ug/l	03/08/01
Styrene	SW846-8260B	<50	ug/l	03/08/01
Bromoform	SW846-8260B	<50	ug/l	03/08/01
1,1,2,2-Tetrachloroethane	SW846-8260B	<50	ug/l	03/08/01
MTBE	SW846-8260B	<50	ug/l	03/08/01
Total PCB's	SW846-8082	<0.1	ug/l	03/12/01
Lead	EPA 239.2	103	ug/l	02/28/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: 88-5

MATRIX: Groundwater

LOCATION: Phase II Union Street

H.E.S.#: 010227I03

DATE SAMPLED: 02/26/01

TIME SAMPLED: 1112

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Not Specified

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
Chloromethane	SW846-8260B	<100	ug/l	03/08/01
Vinyl Chloride	SW846-8260B	<100	ug/l	03/08/01
Bromomethane	SW846-8260B	<100	ug/l	03/08/01
Chloroethane	SW846-8260B	<100	ug/l	03/08/01
1,1-Dichloroethene	SW846-8260B	<50	ug/l	03/08/01
Acetone	SW846-8260B	<100	ug/l	03/08/01
Carbon Disulfide	SW846-8260B	<50	ug/l	03/08/01
Methylene Chloride	SW846-8260B	<50	ug/l	03/08/01
1,2-Dichloroethene trans	SW846-8260B	<50	ug/l	03/08/01
cis-1,2-Dichloroethene	SW846-8260B	<50	ug/l	03/08/01
1,1-Dichloroethane	SW846-8260B	<50	ug/l	03/08/01
2-Butanone	SW846-8260B	<100	ug/l	03/08/01
Chloroform	SW846-8260B	<50	ug/l	03/08/01
1,1,1-Trichloroethane	SW846-8260B	<50	ug/l	03/08/01
Carbon Tetrachloride	SW846-8260B	<50	ug/l	03/08/01
Benzene	SW846-8260B	2,456	ug/l	03/08/01
1,2-Dichloroethane	SW846-8260B	<50	ug/l	03/08/01
Trichloroethene	SW846-8260B	<50	ug/l	03/08/01
1,2-Dichloropropane	SW846-8260B	<50	ug/l	03/08/01
Bromodichloromethane	SW846-8260B	<50	ug/l	03/08/01
cis-1,3-Dichloropropene	SW846-8260B	<50	ug/l	03/08/01
4-Methyl-2-Pentanone	SW846-8260B	<100	ug/l	03/08/01
2-Hexanone	SW846-8260B	<100	ug/l	03/08/01
Toluene	SW846-8260B	1,041	ug/l	03/08/01
trans-1,3-Dichloropropene	SW846-8260B	<50	ug/l	03/08/01
1,1,2-Trichloroethane	SW846-8260B	<50	ug/l	03/08/01
Tetrachloroethene	SW846-8260B	<50	ug/l	03/08/01
Dibromochloromethane	SW846-8260B	<50	ug/l	03/08/01
Chlorobenzene	SW846-8260B	<50	ug/l	03/08/01
Ethylbenzene	SW846-8260B	361	ug/l	03/08/01
m-Xylene/p-Xylene	SW846-8260B	804	ug/l	03/08/01
o-Xylene	SW846-8260B	297	ug/l	03/08/01
Styrene	SW846-8260B	<50	ug/l	03/08/01
Bromoform	SW846-8260B	<50	ug/l	03/08/01
1,1,2,2-Tetrachloroethane	SW846-8260B	<50	ug/l	03/08/01
MTBE	SW846-8260B	<50	ug/l	03/08/01
Total PCB's	SW846-8082	<0.1	ug/l	03/12/01
Lead	EPA 239.2	141	ug/l	02/28/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: SS-4

MATRIX: Soil

LOCATION: Phase II Union Street

H.E.S.#: 010227I07

DATE SAMPLED: 02/26/01

TIME SAMPLED: 1130

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Grab

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
Total Solids	EPA 160.3	78	%	03/09/01
Arsenic	SW846-7060A	8.6	mg/kg	03/07/01
Barium	SW846-7080A	968	mg/kg	03/08/01
Cadmium	SW846-7130	3.5	mg/kg	02/28/01
Chromium	SW846-7190	22	mg/kg	03/01/01
Lead	SW846-7420	4,740	mg/kg	02/28/01
Mercury	SW846-7471A	0.3	mg/kg	03/09/01
Selenium	SW846-7740	0.2	mg/kg	03/07/01
Silver	SW846-7760A	<1.6	mg/kg	03/07/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: SS-1

MATRIX: Soil

LOCATION: Phase II Union Street

H.E.S.#: 010227I04

DATE SAMPLED: 02/26/01

TIME SAMPLED: 1057

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Grab

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
Total Solids	EPA 160.3	86	%	03/09/01
Arsenic	SW846-7060A	8.8	mg/kg	03/07/01
Barium	SW846-7080A	397	mg/kg	03/08/01
Cadmium	SW846-7130	6.4	mg/kg	02/28/01
Chromium	SW846-7190	31	mg/kg	03/01/01
Lead	SW846-7420	4,030	mg/kg	02/28/01
Mercury	SW846-7471A	0.3	mg/kg	03/09/01
Selenium	SW846-7740	0.1	mg/kg	03/07/01
Silver	SW846-7760A	<1.2	mg/kg	03/07/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: SS-2

MATRIX: Soil

LOCATION: Phase II Union Street

H.E.S.#: 010227I05

DATE SAMPLED: 02/26/01

TIME SAMPLED: 1103

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Grab

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
Total Solids	EPA 160.3	71	%	03/09/01
Arsenic	SW846-7060A	8.1	mg/kg	03/07/01
Barium	SW846-7080A	619	mg/kg	03/08/01
Cadmium	SW846-7130	2.8	mg/kg	02/28/01
Chromium	SW846-7190	37	mg/kg	03/01/01
Lead	SW846-7420	3,250	mg/kg	02/28/01
Mercury	SW846-7471A	1.8	mg/kg	03/09/01
Selenium	SW846-7740	0.2	mg/kg	03/07/01
Silver	SW846-7760A	<1.4	mg/kg	03/07/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: SS-3

MATRIX: Soil

LOCATION: Phase II Union Street

H.E.S.#: 010227I06

DATE SAMPLED: 02/26/01

TIME SAMPLED: 1126

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Grab

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
Total Solids	EPA 160.3	72	%	03/09/01
Arsenic	SW846-7060A	3.7	mg/kg	03/07/01
Barium	SW846-7080A	580	mg/kg	03/08/01
Cadmium	SW846-7130	3.5	mg/kg	02/28/01
Chromium	SW846-7190	17	mg/kg	03/01/01
Lead	SW846-7420	2,360	mg/kg	02/28/01
Mercury	SW846-7471A	1.1	mg/kg	03/09/01
Selenium	SW846-7740	<0.1	mg/kg	03/07/01
Silver	SW846-7760A	<1.4	mg/kg	03/07/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: SB-1(0-2')

MATRIX: Soil

LOCATION: Phase II Union Street

H.E.S.#: 010227I08

DATE SAMPLED: 02/26/01

TIME SAMPLED: 0928

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Not Specified

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
MTBE	SW846-8021B	<5.9	ug/kg	03/01/01
Benzene	SW846-8021B	<5.9	ug/kg	03/01/01
Toluene	SW846-8021B	<5.9	ug/kg	03/01/01
Ethylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
m-Xylene\p-Xylene	SW846-8021B	<5.9	ug/kg	03/01/01
o-Xylene	SW846-8021B	<5.9	ug/kg	03/01/01
Isopropylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
n-Propylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
1,3,5-Trimethylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
tert,Butylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
1,2,4-Trimethylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
sec-Butylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
p-Isopropyltoluene	SW846-8021B	<5.9	ug/kg	03/01/01
n-Butylbenzene	SW846-8021B	<5.9	ug/kg	03/01/01
Naphthalene	SW846-8270C	<393	ug/kg	02/28/01
Acenaphthene	SW846-8270C	<393	ug/kg	02/28/01
Fluorene	SW846-8270C	<393	ug/kg	02/28/01
Phenanthrene	SW846-8270C	<393	ug/kg	02/28/01
Anthracene	SW846-8270C	<393	ug/kg	02/28/01
Fluoranthene	SW846-8270C	<393	ug/kg	02/28/01
Pyrene	SW846-8270C	<393	ug/kg	02/28/01
Benzo (a) anthracene	SW846-8270C	<393	ug/kg	02/28/01
Chrysene	SW846-8270C	<393	ug/kg	02/28/01
Benzo (b) fluoranthene	SW846-8270C	<393	ug/kg	02/28/01
Benzo (k) fluoranthene	SW846-8270C	<393	ug/kg	02/28/01
Benzo (a) pyrene	SW846-8270C	<393	ug/kg	02/28/01
Indeno (1,2,3-CD) pyrene	SW846-8270C	<393	ug/kg	02/28/01
Dibenz (a,h) anthracene	SW846-8270C	<393	ug/kg	02/28/01
Benzo (g,h,i) perylene	SW846-8270C	<393	ug/kg	02/28/01
Total Solids	EPA 160.3	84	%	02/28/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: SB-2(0-1')

MATRIX: Soil

LOCATION: Phase II Union Street

H.E.S.#: 010227I09

DATE SAMPLED: 02/26/01

TIME SAMPLED: 0928

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Not Specified

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
MTBE	SW846-8021B	<5.6	ug/kg	03/01/01
Benzene	SW846-8021B	<5.6	ug/kg	03/01/01
Toluene	SW846-8021B	<5.6	ug/kg	03/01/01
Ethylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
m-Xylene\p-Xylene	SW846-8021B	<5.6	ug/kg	03/01/01
o-Xylene	SW846-8021B	16	ug/kg	03/01/01
Isopropylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
n-Propylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
1,3,5-Trimethylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
tert,Butylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
1,2,4-Trimethylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
sec-Butylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
p-Isopropyltoluene	SW846-8021B	<5.6	ug/kg	03/01/01
n-Butylbenzene	SW846-8021B	<5.6	ug/kg	03/01/01
Naphthalene	SW846-8270C	<384	ug/kg	02/28/01
Acenaphthene	SW846-8270C	<384	ug/kg	02/28/01
Fluorene	SW846-8270C	<384	ug/kg	02/28/01
Phenanthrene	SW846-8270C	<384	ug/kg	02/28/01
Anthracene	SW846-8270C	<384	ug/kg	02/28/01
Fluoranthene	SW846-8270C	<384	ug/kg	02/28/01
Pyrene	SW846-8270C	<384	ug/kg	02/28/01
Benzo (a) anthracene	SW846-8270C	<384	ug/kg	02/28/01
Chrysene	SW846-8270C	<384	ug/kg	02/28/01
Benzo (b) fluoranthene	SW846-8270C	<384	ug/kg	02/28/01
Benzo (k) fluoranthene	SW846-8270C	<384	ug/kg	02/28/01
Benzo (a) pyrene	SW846-8270C	<384	ug/kg	02/28/01
Indeno (1,2,3-CD) pyrene	SW846-8270C	<384	ug/kg	02/28/01
Dibenz (a,h) anthracene	SW846-8270C	<384	ug/kg	02/28/01
Benzo (g,h,i) perylene	SW846-8270C	<384	ug/kg	02/28/01
Total Solids	EPA 160.3	89	%	02/28/01

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CLIENT: Malcolm Pirnie

SAMPLE DESCRIPTION: SB-3(0-6')

MATRIX: Soil

LOCATION: Phase II Union Street

H.E.S.#: 010227I10

DATE SAMPLED: 02/26/01

TIME SAMPLED: 1000

DATE SAMPLE RECD: 02/27/01

TYPE SAMPLE: Not Specified

SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
MTBE	SW846-8021B	144	ug/kg	03/01/01
Benzene	SW846-8021B	43	ug/kg	03/01/01
Toluene	SW846-8021B	149	ug/kg	03/01/01
Ethylbenzene	SW846-8021B	17	ug/kg	03/01/01
m-Xylene\p-Xylene	SW846-8021B	23	ug/kg	03/01/01
o-Xylene	SW846-8021B	<6.0	ug/kg	03/01/01
Isopropylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
n-Propylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
1,3,5-Trimethylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
tert,Butylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
1,2,4-Trimethylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
sec-Butylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
p-Isopropyltoluene	SW846-8021B	<6.0	ug/kg	03/01/01
n-Butylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
Naphthalene	SW846-8270C	<398	ug/kg	02/28/01
Acenaphthene	SW846-8270C	<398	ug/kg	02/28/01
Fluorene	SW846-8270C	<398	ug/kg	02/28/01
Phenanthrene	SW846-8270C	<398	ug/kg	02/28/01
Anthracene	SW846-8270C	<398	ug/kg	02/28/01
Fluoranthene	SW846-8270C	<398	ug/kg	02/28/01
Pyrene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (a) anthracene	SW846-8270C	<398	ug/kg	02/28/01
Chrysene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (b) fluoranthene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (k) fluoranthene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (a) pyrene	SW846-8270C	<398	ug/kg	02/28/01
Indeno (1,2,3-CD) pyrene	SW846-8270C	<398	ug/kg	02/28/01
Dibenz (a,h) anthracene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (g,h,i) perylene	SW846-8270C	<398	ug/kg	02/28/01
Total Solids	EPA 160.3	83	%	02/28/01

HES

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Malcolm Pirnie
SAMPLE DESCRIPTION: SB-4(0-1')
MATRIX: Soil
LOCATION: Phase II Union Street
H.E.S.#: 010227I11

DATE SAMPLED: 02/26/01
TIME SAMPLED: 1015
DATE SAMPLE RECD: 02/27/01
TYPE SAMPLE: Not Specified
SAMPLER: M.Bocus/Malcolm Pirnie

PARAMETER	METHOD	RESULT*	UNITS	TEST DATE
MTBE	SW846-8021B	94	ug/kg	03/01/01
Benzene	SW846-8021B	<6.0	ug/kg	03/01/01
Toluene	SW846-8021B	86	ug/kg	03/01/01
Ethylbenzene	SW846-8021B	48	ug/kg	03/01/01
m-Xylene\p-Xylene	SW846-8021B	134	ug/kg	03/01/01
o-Xylene	SW846-8021B	44	ug/kg	03/01/01
Isopropylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
n-Propylbenzene	SW846-8021B	20	ug/kg	03/01/01
1,3,5-Trimethylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
tert,Butylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
1,2,4-Trimethylbenzene	SW846-8021B	122	ug/kg	03/01/01
sec-Butylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
p-Isopropyltoluene	SW846-8021B	<6.0	ug/kg	03/01/01
n-Butylbenzene	SW846-8021B	<6.0	ug/kg	03/01/01
Naphthalene	SW846-8270C	<398	ug/kg	02/28/01
Acenaphthene	SW846-8270C	<398	ug/kg	02/28/01
Fluorene	SW846-8270C	<398	ug/kg	02/28/01
Phenanthrene	SW846-8270C	<398	ug/kg	02/28/01
Anthracene	SW846-8270C	<398	ug/kg	02/28/01
Fluoranthene	SW846-8270C	<398	ug/kg	02/28/01
Pyrene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (a) anthracene	SW846-8270C	<398	ug/kg	02/28/01
Chrysene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (b) fluoranthene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (k) fluoranthene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (a) pyrene	SW846-8270C	<398	ug/kg	02/28/01
Indeno (1,2,3-CD) pyrene	SW846-8270C	<398	ug/kg	02/28/01
Dibenz (a,h) anthracene	SW846-8270C	<398	ug/kg	02/28/01
Benzo (g,h,i) perylene	SW846-8270C	<398	ug/kg	02/28/01
Total Solids	EPA 160.3	83	%	02/28/01

*All soil results on a dry weight basis.
Approval By: M Hannigan
Date: 3/13/01

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

HUDSON ENVIRONMENTAL SERVICES, INC.

Mail: 22 Hudson Falls Road, South Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., South Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CHAIN OF CUSTODY RECORD/
Lab Work Request

Client: Malcolm Pirnie
Client Contact/Person #: Matt Baker
Project Location: Phase II Union Street
Purchase Order:
HES Contact:

Mail Address: 15 Cornell Rd
Latham NY 12110
Phone #: (518) 786-7349

HES Use Only Lab ID	Sample ID / Description	Date Collected	TIME A=a.m. P=p.m.		SAMPLE TYPE C=Composite G=Grab MATRIX	C	G	# Conts.	ANALYSIS REQUIRED
040103	SB-1 (0-1') (0-2')	2/26/01	0938	A P	S.1			2	STARS VOCs, SVOCs
104	SB-2 (0-1')		0928	A P	S.1			2	STARS VOCs, SVOCs
105	SB-3 (0-6")		1000	A P	S.1			2	STARS VOCs, SVOCs
106	SB-4 (0-1')		1015	A P	S.1			2	STARS VOCs, SVOCs
				A P					
				A P					
				A P					
				A P					

Matrix
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
O - Oil
DW - Drinking Water
GW - Ground Water
SW - Surface Water
L - Leachate
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
X - Other
WW - Waste Water

Special Instructions:
Form I Only

Sampled by: (Signature) Matt Baker	Date/Time 2/26/01	Received by: (Signature) X	Date/Time
Relinquished by: (Signature) Matt Baker	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature) Matt Baker	Date/Time 3/27/01 0810	Received by: (Signature) FEDEX	Date/Time 3/27/01
Dispatched by: (Signature)	Method of Shipment: Fedex		Date/Time
Received @ Laboratory: FEDEX	Date/Time 3/28/01 0830	Turnaround Time: Normal	Lab Approval:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

HES Use Only

Samples Were:
1. Shipped or Hand Delivered
NOTES:

2. Ambient or Chilled
NOTES:

3. Received Broken/ Leaking (Improperly Scaled)
Y N
NOTES:

4. Properly Preserved
NOTES: Y N

5. Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1. Present on Outer Package Y N

2. Unbroken on Outer Package Y N

3. Present on Sample Y N

4. Unbroken on Sample
NOTES: Y N

COC Record Was:
1. Present upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record?
Y N
NOTES:

HUDSON ENVIRONMENTAL SERVICES, INC.

Mail: 22 Hudson Falls Road, South Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., South Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CHAIN OF CUSTODY RECORD/ Lab Work Request

Client: Malcolm Pirnie
Client Contact/Person #: Matt Bokus
Project Location: Phase II Union Street
Purchase Order:
HES Contact:

Mail Address: 15 Cornell Rd, Latham NY 12110
Phone #: (518) 786-7349

HES Use Only Lab ID	Sample ID / Description	Date Collected	TIME A=a.m. P=p.m.	A/P	MATRIX	C	G	# Conts.	ANALYSIS REQUIRED
	~~MW-10~~ Not Sampled			A / P	~~H2O~~			~~5~~	~~TCL VOCs + MTBE, PCBs Lead~~
~~I01~~	MW-11	2/26/01	1142	Ⓐ	H_2O			5	TCL VOCs + MTBE, PCBs, pb
I02	MW-14		1318		H_2O			5	TCL VOCs + MTBE, PCBs, pb
I03	28-5		1112	Ⓐ	H_2O			5	TCL VOCs + MTBE, PCBs, pb
I04	SS-1		1057	Ⓐ	Soil		x	1	RCRA Metals (SW846)
I05	SS-2		1103	Ⓐ	Soil		x	1	RCRA Metals (SW846)
I06	SS-3		1126	Ⓐ	Soil		x	1	RCRA Metals (SW846)
I07	SS-4	↓	1132	Ⓐ	Soil		x	1	RCRA Metals (SW846)

Matrix: S - Soil, SE - Sediment, SO - Solid, SL - Sludge, O - Oil, DW - Drinking Water, GW - Ground Water, SW - Surface Water, L - Leachate, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, X - Other, WW - Waste Water

Special Instructions: Form I Only

	Date/Time		Date/Time
Sampled by: (Signature) Matt Bokus	2/26/01	Received by: (Signature) X	
Relinquished by: (Signature) Matt Bokus		Received by: (Signature)	
Relinquished by: (Signature) Matthew Bokus	2/27/01 0830	Received by: (Signature) [signature]	2/27/01
Dispatched by: (Signature)	Method of Shipment: FedEx		Date/Time
Received @ Laboratory: [signature]	Date/Time 2/27/01 1220	Turnaround Time: Normal	Lab Approval:

WHITE - Lab Copy   YELLOW - Sampler Copy   PINK - Generator Copy

HES Use Only

Samples Were:
1. Shipped or Hand Delivered NOTES:
2. Ambient or Chilled NOTES:
3. Received Broken/ Leaking (Improperly Sealed) Y N NOTES:
4. Properly Preserved NOTES: Y N
5. Received Within Holding Times Y N NOTES:

COC Tape Was:
1. Present on Outer Package Y N
2. Unbroken on Outer Package Y N
3. Present on Sample Y N
4. Unbroken on Sample NOTES: Y N

COC Record Was:
1. Present upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:

ATTACHMENT 3

Air Sampling Results

AIR TOXICS LTD.

SAMPLE NAME: Basement 250

ID#: 0102521-01A

EPA METHOD TO-3 GC/PID

File Name:	**d030106b**	**Date of Collection:**	**2/27/01**
Dil. Factor:	**1.46**	**Date of Analysis:**	**3/1/01**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0015	0.0047	Not Detected	Not Detected
Toluene	0.0015	0.0056	Not Detected	Not Detected
Ethyl Benzene	0.0015	0.0064	Not Detected	Not Detected
Total Xylenes	0.0015	0.0064	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	97	75-125

AIR TOXICS LTD.

SAMPLE NAME: Basement 252

ID#: 0102521-02A

EPA METHOD TO-3 GC/PID

File Name:	**d030107b**	**Date of Collection:**	**2/27/01**
Dil. Factor:	**5.03**	**Date of Analysis:**	**3/1/01**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0050	0.016	Not Detected	Not Detected
Toluene	0.0050	0.019	Not Detected	Not Detected
Ethyl Benzene	0.0050	0.022	Not Detected	Not Detected
Total Xylenes	0.0050	0.022	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	97	75-125

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0102521-03A

EPA METHOD TO-3 GC/PID

File Name:	**d030105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/1/01**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0044	Not Detected	Not Detected
Total Xylenes	0.0010	0.0044	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	97	75-125

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

Contact Person: Matt Bakes
Company: Malcolm Pirnie
Address: 15 Cornell Rd. City: Latham State: NY Zip: 12110
Phone: (518) 786-7349 FAX: (518) 786-8615
Collected By: Signature: Matt Bakes

Project info:
P.O. #:
Project #: 0533076
Project Name: Phase II Union St.

Turn Around Time:
☒ Normal
☐ Rush _____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	Basement 250	2/26 - 2/27/01 0900	BETEX EPA Method TO-3	27	MB 21 3	2.5"Hg
02A	Basement 252 ~~OTTO~~	2/26 - 2/27/01 0910	BETEX EPA Method TO-3	27	21	~~30-0"Hg~~ 22.0"Hg 3/1/01

Relinquished By: (Signature) Date/Time: Matt Bakes 2/27/01 1000
Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time: ATL 2-28-01 905
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8244 0968 3033	ES	—	good	Yes No None	0102521

Form 1293 rev. 09

ATTACHMENT 4

Asbestos and Lead-Based Paint Survey

TLI

Malcolm Pirnie, Inc.

15 Cornell Road
Latham, New York 12110

Lead Survey Report

250 Union Street

Schenectady, New York

Testwell Laboratories, Inc.
Environmental & Construction Services
30 Corporate Circle Suite 131 Albany, New York 12203
Tele: (518) 464-6039 Fax: (518) 464-9522 Email: TestwellElab@aol.com

Malcolm Pirnie, Inc.
15 Cornell Road Latham, New York 12110

for

Schenectady County Planning Department
250 Union Street Schenectady, New York

Lead Inspection

LEAD DETERMINATION REPORT

Malcolm Pirnie, Inc.
15 Cornell Road Latham, New York 12110

250 Union Street Schenectady, New York

TABLE OF CONTENTS

(Note: Subject Reference headings are for information and ease of indexing and shall not be considered as exclusive divisions.)

LEAD DETERMINATION REPORT

SECTION 1: INTRODUCTION

EXECUTIVE SUMMARY

Client: Malcolm Pirnie, Inc.

Client Address: 15 Cornell Road Latham, New York 12110

Premises (Site): 250 Union Street Schenectady, New York

ABSTRACT

Malcolm Pirnie, Inc. (Malcolm Pirnie) retained Testwell Laboratories, Inc. in the capacity of an environmental consulting agency; commissioning their staff to undertake lead determination investigations within selected buildings at 250 Union Street Schenectady, New York.

The following report presents results from field investigations, and conclusions based upon testing of surfaces in selected areas of the 250 Union Street property.

LIMITATION OF LIABILITIES

HOW TO USE THIS REPORT

This report is designed to give an overview of any possible paint coverings that may present a lead-hazard.

This document provides an initial catalog, along with appropriate response recommendations for the surfaces documented that fall outside the required legal threshold values.

We recommend that all-necessary remedial action and/or abatement work be done in accordance with a site-specific scope of work to ensure complete and controlled operations.

*The amount and configuration of the suspected material observed may present a potential for exposure which demands that proper engineering controls be adhered to if abatement work is to proceed safely and in compliance with applicable regulations.

*We also recommend suitable and adequate supervision of all lead removal work by an independent environmental consultant or engineering firm.

SECTION II: METHODOLOGY

SURVEY METHODS

The site survey and analyses were conducted by an accredited inspector experienced in the recognition of potentially suspect surfacing materials. For lead content measurement, samples of paint shards and chips were collected and submitted for instrumentation analysis via Atomic Absorption Spectroscopy (AAS).

ANALYTICAL DATA

Representative sections of various paint coverings were tested. Additional samples were collected of paint covering materials such as chippings, shards, and debris. The test/sample sites and conditions were duly noted, including, but not limited to, room type and usage, surface type, substrate, and condition.

No air or swipe samples were requested or collected during this inspection survey.

No field comparisons of visually similar materials were made without additional sampling or testing. In accordance with the specified guidance literature, a single, randomly located test of one surfacing was deemed to be representational of said covering. It is the inspector's opinion that adequate data was procured to support the conclusions and opinions set forth herein.

LABORATORY QUALITY ASSURANCE

Testwell Laboratories, Inc. maintains a full in-house analytical facility. Testwell's analytical methodologies incorporate criteria and procedures for chemical testing to ensure that quality analytical results are generated. The quality assurance program entails control of the analyst's working environment, instrumentation, chemicals used, and the methods followed.

The quality control program demonstrates and documents the precision and accuracy of test results through the analysis of field blanks, duplicate samples spiked with analysts and surrogate standards.

These QA/QC procedures are based upon the following protocols:

1) U.S. EPA Contract Laboratory Program

2) Code of Federal Regulation (40 CFR Part 136)

3) U.S. EPA Test Methods for evaluating Solid Waste (SW-846)

In addition, the procedures meet the requirements specified in the New York State Department of Health Environmental Laboratory Program (ELAP).

SECTION III

GENERAL CONCLUSIONS AND RECOMMENDATIONS

250 Union Street Schenectady, New York was inspected for surface coverings that could present a lead paint hazard. Testwell Laboratories, Inc conducted the inspection on February 26, 2001.

Summary of chip sample results:

1) Samples 001 through 008 and 012: the lead concentrations were above 0.5%, which is the EPA Standard.

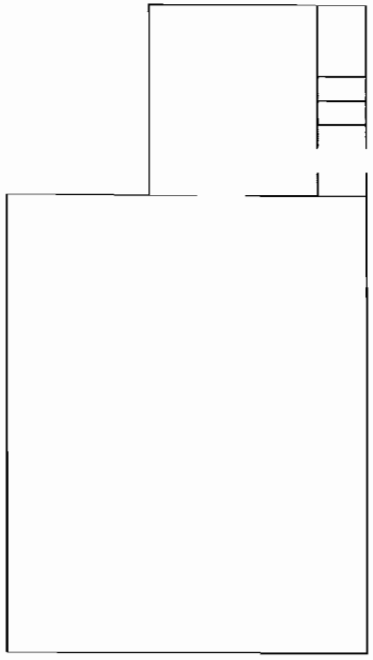
It is our opinion that there may be a risk potential for exposure to lead arising from upgrading, demolition and/or remodeling the building systems.

Note that this document should be considered an interim report, as it does not fully document the possible hazard identified for these properties. Its limited scope of data does not allow for projection of hazard assessment through areas.

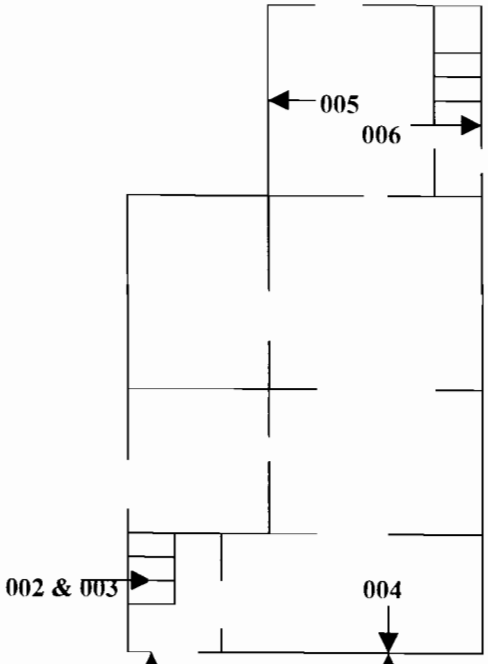
LEAD DETERMINATION REPORT

BUILDING SCHEMATICS/PLAN

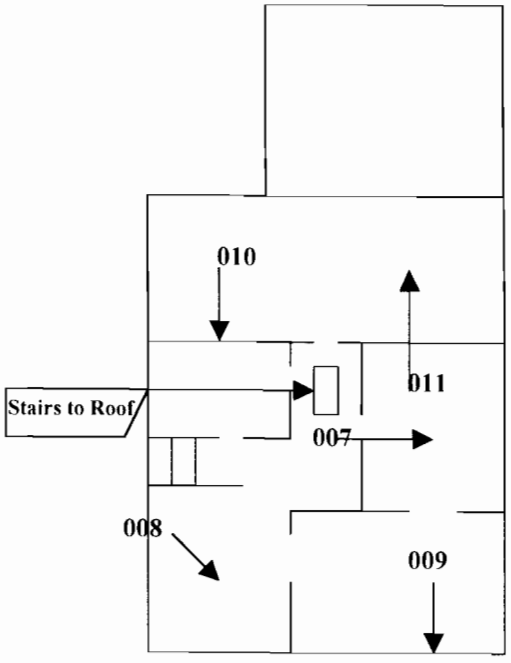
FLOOR PLANS/FIELD INSPECTION DATA SHEETS



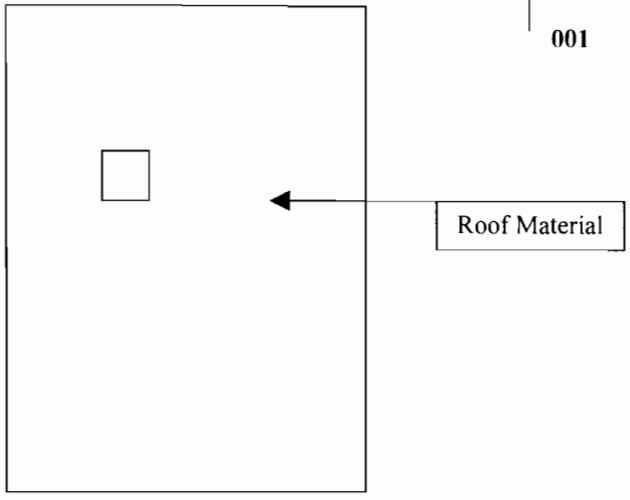
Basement Floor Plan



1st Floor Plan



2nd Floor Plan



N
O
R
T
H

Client:
Malcolm Pirnie, Inc.
15 Cornell Road
Latham, New York 12110

Site:
250 Union Street
Schenectady, New York

Consultant:
Testwell Laboratories, Inc.
30 Corporate Circle Suite 131
Albany, N.Y. 12203
(p): 518.464.6039
(f): 518.464.9522

Legend:

Scale: N/A

NYSDOL Designer # 88-10819
Brian K. McLaren

Lead - 001

LEAD DETERMINATION REPORT

DATA SAMPLING SHEETS

DATA SHEETS

TESTWELL LABORATORIES, INC.
30 Corporate Circle Suite 131
Albany, New York 12203

CHIP SAMPLE FORM/CHAIN OF CUSTODY

tele: (518) 464-6039
fax: (518) 464-9622

Client Name: Malcolm Pirnie, Inc.
Client Address: 15 Cornell Road, Latham, NY 12110
Project Site: 250 Union Street, Schenectady, NY

Sampled By: B. Moynihan
Turnaround Time: 72 hours
Project Number: D-60-5

Field Sample #:	Lab ID #:	Sample Location:	Sample Matrix:	Sample Volume:	Analysis Requested:	Analyical Method:	% by Weight Results:	MDL
001	01-105915-01	Front Door	Paint	1inx1in	Lead	7082	1.52	0.01
002	01-105915-02	Front Stairs	Paint	1inx1in	Lead	7082	4.24	0.01
003	01-105915-03	Stair Tread	Paint	1inx1in	Lead	7082	21.0	0.01
004	01-105915-04	Window Sill 1st Floor	Paint	1inx1in	Lead	7082	15.7	0.01
005	01-105915-05	Kitchen Wall 1st Floor	Paint	1inx1in	Lead	7082	.971	0.01
006	01-105915-06	Door Frame 1st Floor	Paint	1inx1in	Lead	7082	23.9	0.01
007	01-105915-07	Kitchen Wall 2nd Floor	Paint	1inx1in	Lead	7082	1.60	0.01
008	01-105915-08	Ceiling Above 1x1 Tile 2nd Floor	Paint	1inx1in	Lead	7082	.928	0.01

.5 % by Weight is consider Pb

U = Undetected (FALLING BELOW THE METHOD DETECTION LIMIT).

Method Detected Limit = Listed MDL multiplied by the dilution factor

Digestion according to SW-846 Method 3050 and analysis according to SW-846 Method 7420

TESTWELL LABORATORIES, INC.
30 Corporate Circle Suite 131
Albany, New York 12203

CHIP SAMPLE FORM/CHAIN OF CUSTODY

tele: (518) 464-6039
fax: (518) 464-9622

Client Name: Malcolm Pirnie, Inc.
Client Address: 15 Cornell Road, Latham, NY 12110
Project Site: 250 Union Street, Schenectady, NY

Sampled By: B. Moynihan
Turnaround Time: 72 hours
Project Number: D-60-5

Field Sample #:	Lab ID #:	Sample Location:	Sample Matrix:	Sample Volume:	Analysis Requested:	Analyical Method:	% by Weight Results:	MDL
009	01-105915-09	Wall Paint 2nd Floor	Paint	1inx1in	Lead	7082	<0.05	0.01
010	01-105915-10	Wall 2nd Floor	Paint	1inx1in	Lead	7082	.470	0.01
011	01-105915-11	Ceiling 2nd Floor	Paint	1inx1in	Lead	7082	.083	0.01
012	01-105915-12	Outside Window	Paint	1inx1in	Lead	7082	17.8	0.01

.5 % by Weight is consider Pb

U = Undetected (FALLING BELOW THE METHOD DETECTION LIMIT).

Method Detected Limit = Listed MDL multiplied by the dilution factor

Digestion according to SW-846 Method 3050 and analysis according to SW-846 Method 7420

TLI

Malcolm Pirnie, Inc.

15 Cornell Road
Latham, New York 12110

Lead Survey Report

252 Union Street

Schenectady, New York

Testwell Laboratories, Inc.
Environmental & Construction Services
30 Corporate Circle Suite 131 Albany, New York 12203
Tele: (518) 464-6039 Fax: (518) 464-9522 Email: TestwellElab@aol.com

Malcolm Pirnie, Inc.
15 Cornell Road Latham, New York 12110

for

Schenectady County Planning Department
252Union Street Schenectady, New York

Lead Inspection

LEAD DETERMINATION REPORT

Malcolm Pirnie, Inc.
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SECTION 1: INTRODUCTION

EXECUTIVE SUMMARY

Client: Malcolm Pirnie, Inc.

Client Address: 15 Cornell Road Latham, New York 12110

Premises (Site): 252 Union Street Schenectady, New York

ABSTRACT

Malcolm Pirnie, Inc. (Malcolm Pirnie) retained Testwell Laboratories, Inc. in the capacity of an environmental consulting agency; commissioning their staff to undertake lead determination investigations within selected buildings at 252 Union Street Schenectady, New York.

The following report presents results from field investigations, and conclusions based upon testing of surfaces in selected areas of the 252 Union Street property.

LIMITATION OF LIABILITIES

HOW TO USE THIS REPORT

This report is designed to give an overview of any possible paint coverings that may present a lead-hazard.

This document provides an initial catalog, along with appropriate response recommendations for the surfaces documented that fall outside the required legal threshold values.

We recommend that all-necessary remedial action and/or abatement work be done in accordance with a site-specific scope of work to ensure complete and controlled operations.

*The amount and configuration of the suspected material observed may present a potential for exposure which demands that proper engineering controls be adhered to if abatement work is to proceed safely and in compliance with applicable regulations.

*We also recommend suitable and adequate supervision of all lead removal work by an independent environmental consultant or engineering firm.

SECTION II: METHODOLOGY

SURVEY METHODS

The site survey and analyses were conducted by an accredited inspector experienced in the recognition of potentially suspect surfacing materials. For lead content measurement, samples of paint shards and chips were collected and submitted for instrumentation analysis via Atomic Absorption Spectroscopy (AAS).

ANALYTICAL DATA

Representative sections of various paint coverings were tested. Additional samples were collected of paint covering materials such as chippings, shards, and debris. The test/sample sites and conditions were duly noted, including, but not limited to, room type and usage, surface type, substrate, and condition.

No air or swipe samples were requested or collected during this inspection survey.

No field comparisons of visually similar materials were made without additional sampling or testing. In accordance with the specified guidance literature, a single, randomly located test of one surfacing was deemed to be representational of said covering. It is the inspector's opinion that adequate data was procured to support the conclusions and opinions set forth herein.

LABORATORY QUALITY ASSURANCE

Testwell Laboratories, Inc. maintains a full in-house analytical facility. Testwell's analytical methodologies incorporate criteria and procedures for chemical testing to ensure that quality analytical results are generated. The quality assurance program entails control of the analyst's working environment, instrumentation, chemicals used, and the methods followed.

The quality control program demonstrates and documents the precision and accuracy of test results through the analysis of field blanks, duplicate samples spiked with analysts and surrogate standards.

These QA/QC procedures are based upon the following protocols:

1) U.S. EPA Contract Laboratory Program

2) Code of Federal Regulation (40 CFR Part 136)

3) U.S. EPA Test Methods for evaluating Solid Waste (SW-846)

LEAD DETERMINATION REPORT

In addition, the procedures meet the requirements specified in the New York State Department of Health Environmental Laboratory Program (ELAP).

SECTION III

GENERAL CONCLUSIONS AND RECOMMENDATIONS

252 Union Street Schenectady, New York was inspected for surface coverings that could present a lead paint hazard. Testwell Laboratories, Inc conducted the inspection on February 26, 2001.

Summary of chip sample results:

1) Samples 002 through 005 and 007 through 009: the lead concentrations were above 0.5%, which is the EPA Standard.

It is our opinion that there may be a risk potential for exposure to lead arising from upgrading, demolition and/or remodeling the building systems.

Note that this document should be considered an interim report, as it does not fully document the possible hazard identified for these properties. Its limited scope of data does not allow for projection of hazard assessment through areas.

LEAD DETERMINATION REPORT

In addition, the procedures meet the requirements specified in the New York State Department of Health Environmental Laboratory Program (ELAP).

SECTION III

GENERAL CONCLUSIONS AND RECOMMENDATIONS

252 Union Street Schenectady, New York was inspected for surface coverings that could present a lead paint hazard. Testwell Laboratories, Inc conducted the inspection on February 26, 2001.

Summary of chip sample results:

1) Samples 001 - 009: the lead concentrations were well above 0.5%, which is the EPA Standard.

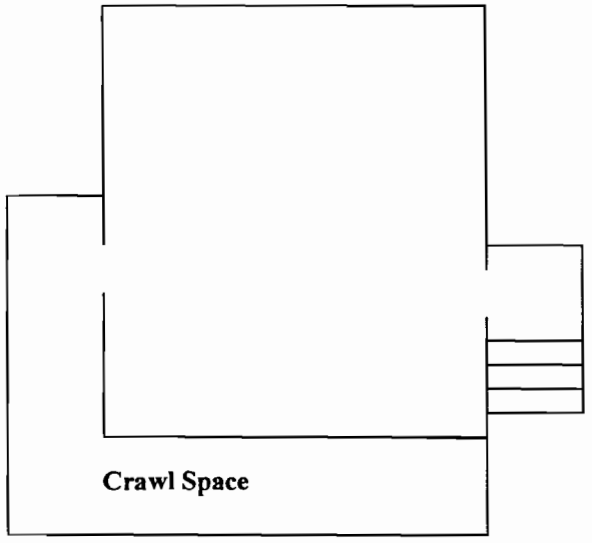
It is our opinion that there may be a risk potential for exposure to lead arising from upgrading, demolition and/or remodeling the building systems.

Note that this document should be considered an interim report, as it does not fully document the possible hazard identified for these properties. Its limited scope of data does not allow for projection of hazard assessment through areas.

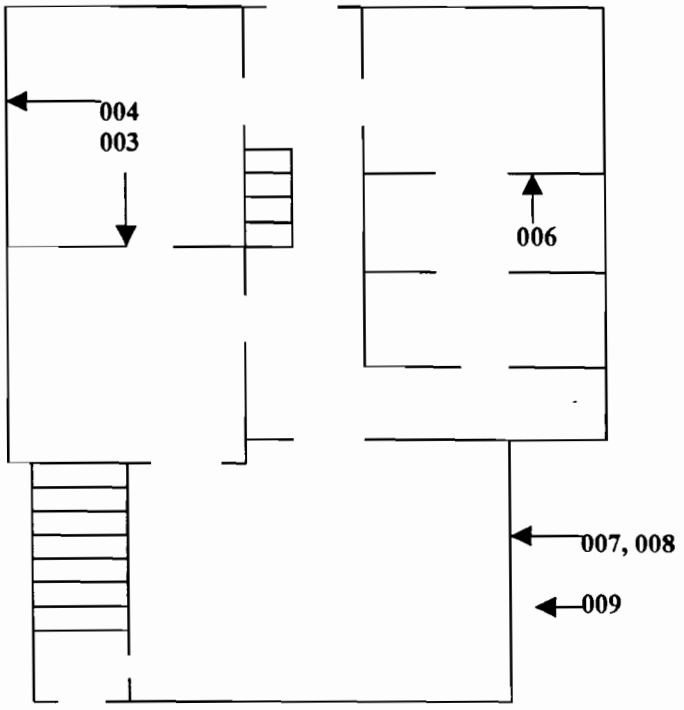
LEAD DETERMINATION REPORT

BUILDING SCHEMATICS/PLAN

FLOOR PLANS/FIELD INSPECTION DATA SHEETS

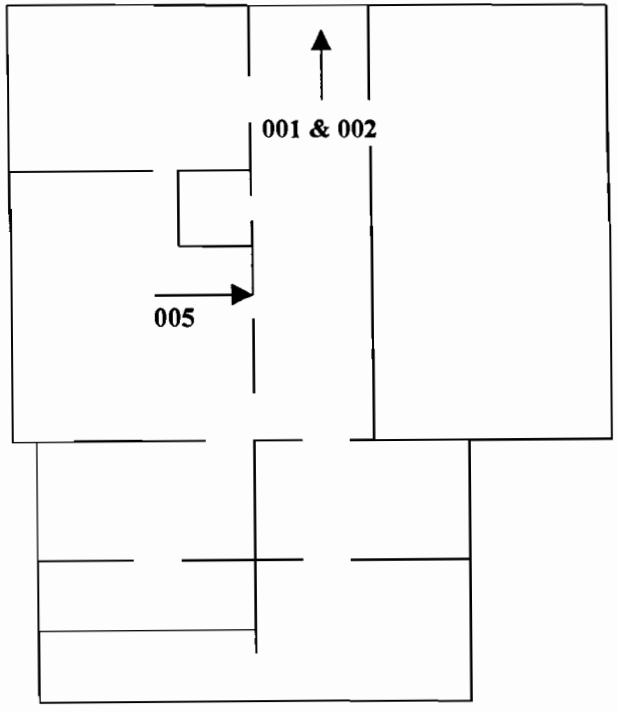


Basement Floor Plan

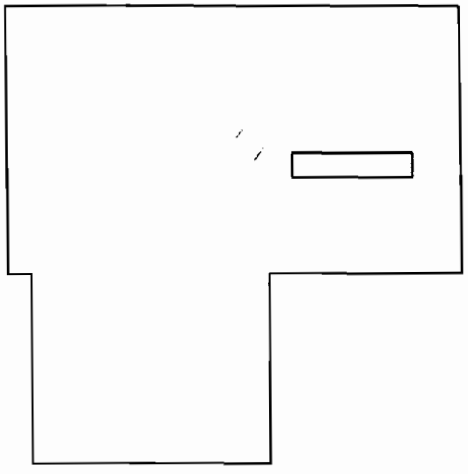


1st Floor Plan

2nd Floor Plan



Roof Plan



NORTH

Client:
Malcolm Pirnie, Inc.
15 Cornell Road
Latham, New York 12110

Site:
252 Union Street
Schenectady, New York

Consultant:
Testwell Laboratories, Inc.
30 Corporate Circle Suite 131
Albany, N.Y. 12203
(p): 518.464.6039
(f): 518.464.9522

Legend:

Scale: N/A

NYSDOL Designer # 88-10819

Brian K. McLaren

Lead - 001

LEAD DETERMINATION REPORT

DATA SAMPLING SHEETS

DATA SHEETS

TESTWELL LABORATORIES, INC.
30 Corporate Circle Suite 131
Albany, New York 12203

CHIP SAMPLE FORM/CHAIN OF CUSTODY

tele: (518) 464-6039
fax: (518) 464-9622

Client Name: Malcolm Pirnie, Inc.
Client Address: 15 Cornell Road, Latham, NY 12110
Project Site: 252 Union Street, Schenectady, NY

Sampled By: B. Moynihan
Turnaround Time: 72 hours
Project Number: D-60-6

Field Sample #:	Lab ID #:	Sample Location:	Sample Matrix:	Sample Volume:	Analysis Requested:	Analyical Method:	% by Weight Results:	MDL
001	01-105915-01	Window 2nd Floor	Paint	1inx1in	Lead	7082	<0.05	0.01
002	01-105915-02	Window Sill 2nd Floor	Paint	1inx1in	Lead	7082	4.95	0.01
003	01-105915-03	Door Jamb	Paint	1inx1in	Lead	7082	50.7	0.01
004	01-105915-04	Baseboard	Paint	1inx1in	Lead	7082	2.35	0.01
005	01-105915-05	Door 2nd Floor	Paint	1inx1in	Lead	7082	20.7	0.01

.5 % by Weight is consider Pb

U = Undetected (FALLING BELOW THE METHOD DETECTION LIMIT).

Method Detected Limit = Listed MDL multiplied by the dilution factor

Digestion according to SW-846 Method 3050 and analysis according to SW-846 Method 7420

TESTWELL LABORATORIES, INC.
30 Corporate Circle Suite 131
Albany, New York 12203

CHIP SAMPLE FORM/CHAIN OF CUSTODY

tele: (518) 464-6039
fax: (518) 464-9622

Client Name: Malcolm Pirnie, Inc.
Client Address: 15 Cornell Road, Latham, NY 12110
Project Site: 252 Union Street, Schenectady, NY

Sampled By: B. Moynihan
Turnaround Time: 72 hours
Project Number: D-60-6

Field Sample #:	Lab ID #:	Sample Location:	Sample Matrix:	Sample Volume:	Analysis Requested:	Analyical Method:	% by Weight Results:	MDL
006	01-105915-06	Wall	Paint	1inx1in	Lead	7082	.226	0.01
007	01-105915-07	Outside White Paint	Paint	1inx1in	Lead	7082	.865	0.01
008	01-105915-08	Siding Paint	Paint	1inx1in	Lead	7082	1.52	0.01
009	01-105915-09	Grey Porch Paint	Paint	1inx1in	Lead	7082	3.63	0.01

.5 % by Weight is consider Pb

U = Undetected (FALLING BELOW THE METHOD DETECTION LIMIT).

Method Detected Limit = Listed MDL multiplied by the dilution factor

Digestion according to SW-846 Method 3050 and analysis according to SW-846 Method 7420

TLI

Environmental & Construction Services

Malcolm Pirnie, Inc.
15 Cornell Road Latham, New York 12110

For

Schenectady County Planning Department
250 Union Street Schenectady, New York

Testwell Laboratories, Inc.
Environmental and Construction Services
30 Corporate Circle Suite 131 Albany, New York 12203
p: (518) 464-6039 f: (518) 464-9522 Email TestwellBMcLaren@aol.com

Malcolm Pirnie, Inc.
15 Cornell Road Latham, New York 12110

For

Schenectady County Planning Department
250 Union Street Schenectady, New York

Generated on:

3/12/01

TESTWELL LABORATORIES, INC.
Brian K. McLaren
Project Manager

Table of Contents

1.0 Executive Summary

An investigation of the site was performed on **2/26/01** by Brian K. McLaren and Bernie Moynihan of Testwell Laboratories, Inc. (TLI), NYS DOL /EPA Inspector/Management Planner Certificate # 88-10819 and NYS DOL /EPA Inspector Certificate # 96-12226. A review of a drawing prepared by **Malcolm Pirnie, Inc. 15 Cornell Road Latham, New York 12110** was conducted prior to and during the investigation.

Bulk samples of suspect asbestos containing materials were collected from **250 Union Street** for laboratory analysis to determine asbestos content, if any. These materials generally include thermal system insulation (TSI), surfacing material and other miscellaneous material. A total of 11 bulk samples were collected during the investigation.

Based on the field investigation and the laboratory analysis of bulk samples collected at the site, removal is required.

2.0 Purpose/Intent

Testwell Laboratories, Inc. (TLI), an Engineering and consulting firm, was retained by **Malcolm Pirnie, Inc. 15 Cornell Road Latham, New York 12110** to perform an asbestos building demolition survey at the **250 Union Street Schenectady, New York**. The purpose of the survey was to identify any asbestos containing material within the buildings that was selected for demolition. This report is only for this address **250 Union Street Schenectady, New York**.

3.0 Inspections

An investigation of the site was performed on **2/26/01** by Brian K. McLaren and Bernie Moynihan of Testwell Laboratories, Inc. (TLI), NYS DOL /EPA Inspector/Management Planner Certificate # 88-10819 and NYS DOL /EPA Inspector Certificate # 96-12226.

The inspector performed a systematic walk-through inspection of the **250 Union Street Schenectady, New York**. Samples of suspected asbestos containing materials were collected and submitted to a laboratory for analysis.

4.0 Bulk Sampling of Suspect Asbestos Containing Materials (ACM)

Bulk sampling of suspect ACM was performed in accordance with protocols contained in the Asbestos Hazard Emergency Response Act of 1986 (40 CFR 763 AHERA). Unless otherwise noted, a minimum of one (1) to three (3) samples were collected from each type of homogeneous material identified.

Samples were placed into leak-tight plastic sample containers, which were labeled to identify material sampled and sample location and stored prior to transport to the laboratory facility. A chain of custody and analysis request was prepared for all samples collected.

Samples were analyzed by Polarized Light Microscopy (PLM) in accordance with the Environmental Protection Agency's Interim Method for the Detection of Asbestos in Bulk Insulation Samples, (EPA-600/M4-82020, December 1982) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

Non-friable Organically Bound (NOB) samples were analyzed via gravimetric reduction. In general, these materials are flexible-to-rigid asphalt, vinyl or of an organic type matrix. This includes, but is not limited to, vinyl asbestos tile, shingles, tar, rubber patch materials and carpet backing.

The protocol requires that samples are analyzed by a gravimetric reduction method and the samples are subject to a series of ashing and weighing prior to analysis. Once the NOB samples have been gravimetrically reduced they can then be analyzed via Polarized Light Microscopy (PLM).

If a NOB sample contains $\leq 1\%$ asbestos, the sample may be reported as asbestos containing and no further analysis is required. If PLM analysis indicates an asbestos concentration of $\geq 1\%$ then the absence of asbestos fibers must be confirmed by Transmission Electron Microscopy (TEM). This method is referred to as the Gravimetric Matrix Reduction Method (ELAP Items 198.1 and 198.4).

TLI is fully accredited by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) for compliance with laboratory guidelines, procedures and analytical proficiency samples in the analysis of asbestos in friable and non-friable materials in accordance with Section 502 of the Public Health Laws of the State of New York. TLI ELAP approval numbers are 10871 and 11142 for the Albany and Ossining laboratories, respectively.

TLI is also fully accredited by the National Institute of Standards and Technology (NIST) for bulk sample analysis under the National Voluntary Laboratory Accreditation Program (NVLAP) for compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. Copies of TLI's laboratory and inspection certificates are shown in Appendix C.

These criteria encompass the requirements of ISO/IEC Guide 25 and relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results.

5.0 Laboratory Test Results - Asbestos

Asbestos fibers were detected in the following materials:

Sample #	Material		Amount
002	Transite Siding	Exterior	4,500 Sq. Ft.
003	All Roofing Materials	Exterior	2,000 Sq. Ft.
011	White Linoleum	2nd Floor Kitchen	150 Sq. Ft.

A complete analytical report is displayed in Appendix B

6.0 Conclusion/Recommendations

Laboratory analysis confirms that asbestos fibers were detected in some of the materials collected at the site. Removal is required for confirmed ACM.

7.0 Cost Estimate for Asbestos Removal

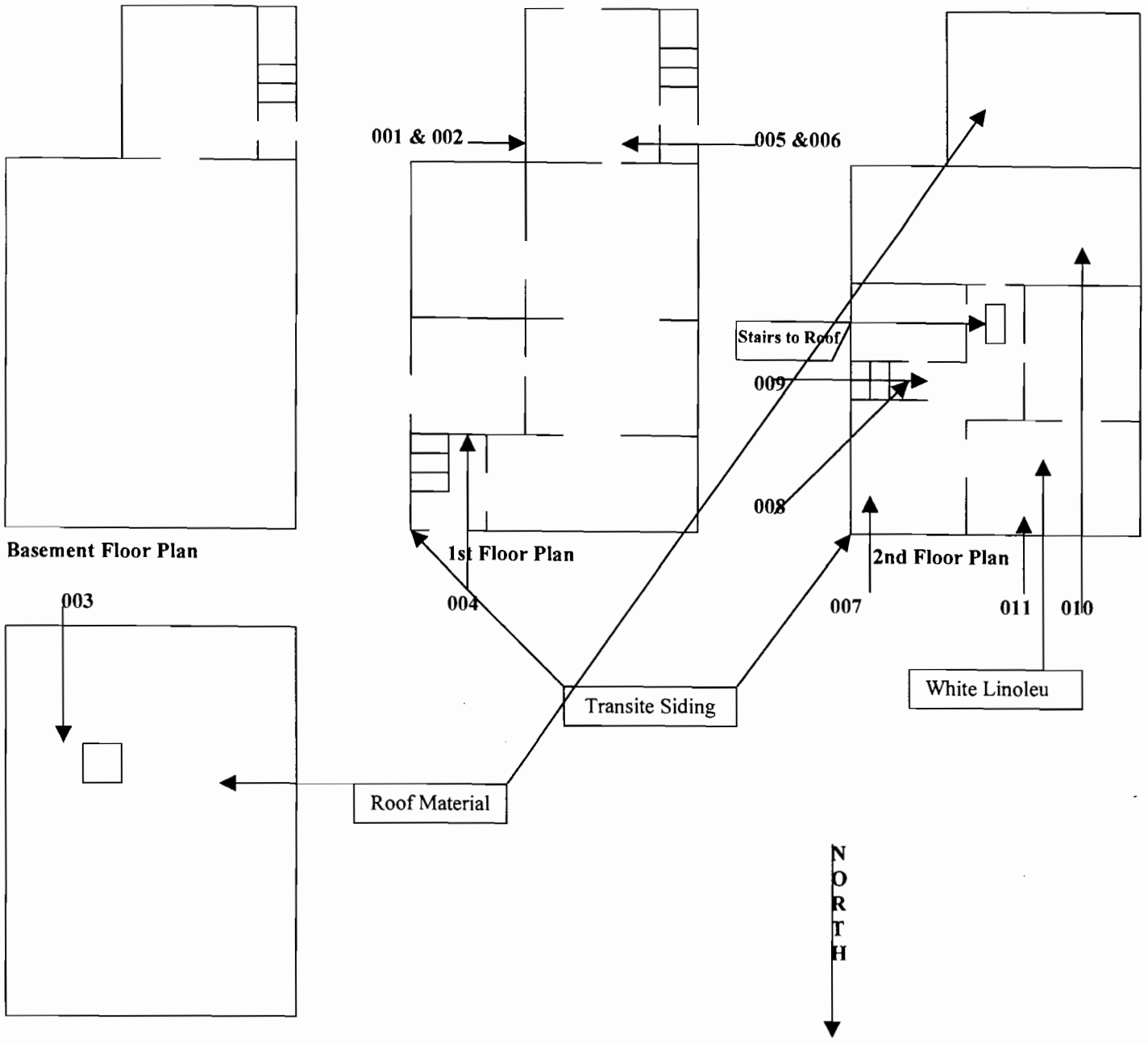
A cost estimate for the removal of asbestos containing material within the **250 Union Street Schenectady, New York** is shown below.

Cost Estimated for Asbestos Removals Only ..... $ 20,500.00

Testwell Laboratories, Inc.

Brian K. McLaren
Brian K. McLaren
Project Manager

Appendix A - Bulk Location Drawing



Client:
Malcolm Pirnie, Inc.
15 Cornell Road
Latham, New York 12110

Site:
250 Union Street
Schenectady, New York

Consultant:
Testwell Laboratories, Inc.
30 Corporate Circle Suite 131
Albany, N.Y. 12203
(p): 518.464.6039
(f): 518.464.9522

Legend:

Transite Siding	4,500 Sq. Ft.
Roof Material	2,000 Sq. Ft.
White Linoleum	150 Sq. Ft.

Scale: N/A

NYSDOL Designer # 88-10819
Brian K. McLaren

ASB - 001

Appendix B - Bulk Sample Reports

Testwell Laboratories, Inc.
30 Corporate Circle, Suite 131
Albany, New York 12203

Phone: **(518) 464-6039**
Fax: **(518) 464-9522**

Project: D-60-5

Sampling Date: February 26, 2001

Client: Malcolm Pirnie, Inc.

Inspectors: Bernie Moynihan

Site: 250 Union Street, Schenectady, NY

Analysis: I. Miller

Field Number	Log Number	Material Sample	Sample Location	Analysis	
001	624B T-608	Siding Vapor Barrier	Outside Building	Negative By PLM/NOB Negative By NOB/TEM	
002	625B	Siding	Outside Building	Chrysotile Cellulose Binder	25.0% 5.0% 70.0%
003	626B	Roofing Material	Roof	Chrysotile	1.37%
004	627B	Plaster	1st Floor	Cellulose Plaster Binder **N.A.F.D.**	10.0% 60.0% 30.0%
005	628B T-609	White Floor Tile	1st Floor Kitchen	Negative By PLM/NOB Negative By NOB/TEM	
006	629B T-610	Floor Tile Mastic	1st Floor Kitchen	Negative By PLM/NOB Chrysotile	<1
007	630B	1x1 Ceiling Tile	2nd Floor	Cellulose Binder **N.A.F.D.**	99.0% 1.0%
008	631B	Plaster	Stairway	Cellulose Plaster Binder **N.A.F.D.**	10.0% 60.0% 30.0%

Isabel Miller

Laboratory Director of Approved Signatory

Certifications: (*) ELAP NYS DOH # 10871 (*) NVLAP NUMBER 1102

COMMENTS: **N.A.F.D. - Means non-asbestos fibers detected.**

Testwell Laboratories, Inc.
30 Corporate Circle, Suite 131
Albany, New York 12203

Phone: **(518) 464-6039**
Fax: **(518) 464-9522**

Project: D-60-5

Sampling Date: February 26, 2001

Client: Malcolm Pirnie, Inc.

Inspectors: Bernie Moynihan

Site: 250 Union Street, Schenectady, NY

Analysis: I. Miller

Field Number	Log Number	Material Sample	Sample Location	Analysis	
009	632B T-611	Red Linoleum	2nd Floor Hallway	Negative By PLM/NOB Negative By NOB/TEM	
010	633B	Plaster	2nd Floor	Cellulose Plaster Binder **N.A.F.D.**	10.0% 60.0% 30.0%
011	634B	White Linoleum	2nd Floor Kitchen	Chrysotile	7.71%

Isabel Miller

Laboratory Director of Approved Signatory

Certifications: (*) ELAP NYS DOH # 10871 (*) NVLAP NUMBER 1102

COMMENTS: **N.A.F.D. - Means non-asbestos fibers detected.**

Appendix C - Testwell Laboratories, Inc.

STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
BUILDING 12, STATE CAMPUS
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

RESTRICTED LICENSE

LICENSE NUMBER: 99-1096
DATE OF ISSUE: 12/05/00
EXPIRATION DATE: 12/31/01

Contractor: Testwell Laboratories, Inc.

Address: 47 Hudson Street
Ossining, NY 10562

Duly Authorized Representative: Charles Schnugg

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Richard Cuccolo, Director
FOR THE COMMISSIONER OF LABOR

DOSH 432 (1-98)

Attn: Brian

United States Environmental Protection Agency

This is to certify that:

Testwell Laboratories, Inc.

47 Hudson Street
Ossining, NY 10562

has fulfilled the requirements of the Toxic Substances Contol Act (TSCA) Section 402(a)(1), and has received certification as a firm, pursuant to 40 CFR Part 745.226 to conduct lead-based paint activities:

Jurisdiction: State of New York excluding Indian Tribes

This certification is valid for three (3) years from the date of issuance and expires May 28, 2003.

Certification # NY-01-052003-275 Issued on: May 29, 2000

Jeanne M. Fox
Regional Administrator

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 200
ISSUED April 1, 2000
REVISED July 18, 2000

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.: 10871

Director: MS. ISABEL CATLIN
Lab Name: TESTWELL LABORATORIES INC
Address : 30 CORPORATE CIRCLE - STE 131
ALBANY NY 12203

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:

Miscellaneous :
Asbestos in Friable Material

Serial No.: 107478

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)

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 200
ISSUED April 1, 2000
REVISED July 18, 2000

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Lab Name: TESTWELL LABORATORIES INC
Address : 30 CORPORATE CIRCLE - STE 131
ALBANY NY 12203

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/AIR AND EMISSIONS

All approved subcategories and/or analytes are listed below:

Miscellaneous Air :
Fibers

Serial No.: 107477

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)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 2001
ISSUED April 1, 2000
REVISED August 8, 2000

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.: 11142

Director: MR. DOMINIC PERRUCCIO
Lab Name: TESTWELL LABORATORIES INC
Address : 47 HUDSON STREET-BUILDING B
OSSINING NY 10562

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/AIR AND EMISSIONS

All approved subcategories and/or analytes are listed below:

Miscellaneous Air :
Asbestos
Fibers

Serial No.: 107817

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)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 200
ISSUED April 1, 2000
REVISED August 8, 2000

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.: 11142

Director: MR. DOMINIC PERRUCCIO
Lab Name: TESTWELL LABORATORIES INC
Address : 47 HUDSON STREET-BUILDING B
OSSINING NY 10562

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/ POTABLE WATER

All approved subcategories and/or analytes are listed below:

D.W. Miscellaneous :
Asbestos

Serial No.: 107816

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)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 200.
ISSUED April 1, 2000
REVISED August 8, 2000

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.: 11142

Director: MR. DOMINIC PERRUCCIO
Lab Name: TESTWELL LABORATORIES INC
Address : 47 HUDSON STREET-BUILDING B
OSSINING NY 10562

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:

Miscellaneous :
Asbestos in Friable Material
Asbestos in Non-Friable Materia

Serial No.: 107818

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)

The American Industrial Hygiene Association

is proud to acknowledge that

Testwell Laboratories, Inc.

Ossining, NY

has fulfilled the requirements for and has been formally recognized by AIHA
and is technically competent to perform the analyses listed in the following

SCOPE OF ACCREDITATION

INDUSTRIAL HYGIENE Originally Accredited: 02/01/92		ENVIRONMENTAL LEAD Originally Accredited: 07/15/99		ENVIRONMENTAL MICROBIOLOGY
___Metals	___Silica	_X_Paint Chips	___Air	___Bacteria
_X_Asbestos PCM	___Asbestos PLM	_X_Dust Wipes	_X_Soil	___Fungi
___Organic Solvents	___Diffusive Samples			

The above named laboratory agrees to perform all analyses listed above in the scope of accreditation according to applicable policy requirements and acknowledges that continued accreditation is dependent on successful participation in the appropriate proficiency testing programs. This laboratory may be contacted to verify the current scope of accreditation, proficiency testing performance and accreditation status. Accreditation by AIHA is not a guarantee of the validity of the data generated by the laboratory.

Laboratory # 6965

Certificate # 486

Accreditation Expires: 07/15/02

Christine A. Kearney

Christine A. Kearney
Chair, Analytical Accreditation Board

James R. Thornton

James R. Thornton, CIH, CSP
President, AIHA

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

TESTWELL LABORATORIES, INC./TESTWELL INDUSTRIES, INC.

OSSINING, NY

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 2001
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 200083-0

NVLAP-01C (11-95)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

TESTWELL LABORATORIES, INC./TESTWELL INDUSTRIES, INC.

OSSINING, NY

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

AIRBORNE ASBESTOS FIBER ANALYSIS

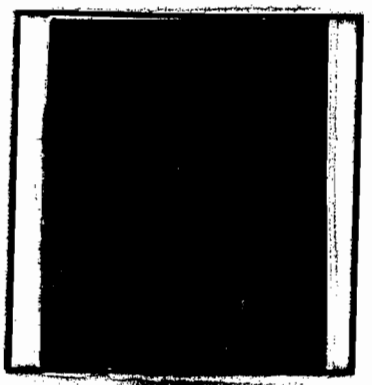
June 30, 2001
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 200083-0

NVLAP-01C (11-95)

MUST BE CARRIED ON ASBESTOS PROJECTS



CERTIFICATE NUMBER	
AH 88-10819	
EXPIRES	
SOCIAL SECURITY NUMBER 086-56-9736	
EYES BRO	HAIR BRO
WEIGHT 150 lbs.	HEIGHT 5 ft. 04 in.

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

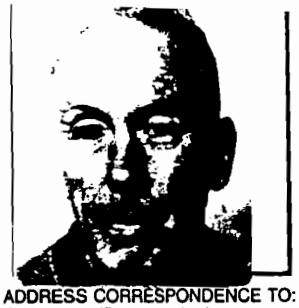
193897C

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

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C (11/01), D (11/01), E (11/01)
H (11/01), I (11/01)

BRIAN K MCLAREN
TROY HILL APT BLDG. 18 #2-C
TROY, NY 12180

RICHARD CUCOLO, Director - For the Commissioner of Labor
DOSH-442 (01/91)



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

AH 96-12226	
EXPIRES	
SOCIAL SECURITY NUMBER 076-30-5561	
EYES BLU	HAIR GRY
WEIGHT 187 lbs.	HEIGHT 6 ft. 02 in.

1127610

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

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES

C - SAMPLING TECHNICIAN (03/01)
D - INSPECTOR (03/01)
H - PROJECT MONITOR (03/01)

BERNARD MOYNIHAN
321 MARGARET STREET
HERKIMER, NY 13350

RICHARD CUCOLO, Director - For the Commissioner of Labor

DOSH-442 (01/91)

TLI

Environmental & Construction Services

Malcolm Pirnie, Inc.
15 Cornell Road Latham, New York 12110

For

Schenectady County Planning Department
252 Union Street Schenectady, New York

Testwell Laboratories, Inc.
Environmental and Construction Services
30 Corporate Circle Suite 131 Albany, New York 12203
p: (518) 464-6039 f: (518) 464-9522 Email TestwellBMcLaren@aol.com

Malcolm Pirnie, Inc.
15 Cornell Road Latham, New York 12110

For

Schenectady County Planning Department
252 Union Street Schenectady, New York

Generated on:

3/12/01

TESTWELL LABORATORIES, INC.
Brian K. McLaren
Project Manager

Table of Contents

1.0 Executive Summary

An investigation of the site was performed on **2/26/01** by Brian K. McLaren and Bernie Moynihan of Testwell Laboratories, Inc. (TLI), NYS DOL /EPA Inspector/Management Planner Certificate # 88-10819 and NYS DOL /EPA Inspector Certificate # 96-12226. A review of a drawing prepared by **Malcolm Pirnie, Inc. 15 Cornell Road Latham, New York 12110** was conducted prior to and during the investigation.

Bulk samples of suspect asbestos containing materials were collected from **252 Union Street** for laboratory analysis to determine asbestos content, if any. These materials generally include thermal system insulation (TSI), surfacing material and other miscellaneous material. A total of 10 bulk samples were collected during the investigation.

Based on the field investigation and the laboratory analysis of bulk samples collected at the site, removal is required.

2.0 Purpose/Intent

Testwell Laboratories, Inc. (TLI), an Engineering and consulting firm, was retained by **Malcolm Pirnie, Inc. 15 Cornell Road Latham, New York 12110** to perform an asbestos building demolition survey at the **252 Union Street Schenectady, New York**. The purpose of the survey was to identify any asbestos containing material within the buildings that was selected for demolition. This report is only for this address: **252 Union Street Schenectady, New York**.

3.0 Inspections

An investigation of the site was performed on **2/26/01** by Brian K. McLaren and Bernie Moynihan of Testwell Laboratories, Inc. (TLI), NYS DOL /EPA Inspector/Management Planner Certificate # 88-10819 and NYS DOL /EPA Inspector Certificate # # 96-12226.

The inspector performed a systematic walk-through inspection of the **252 & 254 Union Street Schenectady, New York**. Samples of suspected asbestos containing materials were collected and submitted to a laboratory for analysis.

4.0 Bulk Sampling of Suspect Asbestos Containing Materials (ACM)

Bulk sampling of suspect ACM was performed in accordance with protocols contained in the Asbestos Hazard Emergency Response Act of 1986 (40 CFR 763 AHERA). Unless otherwise noted, a minimum of one (1) to three (3) samples were collected from each type of homogeneous material identified.

Samples were placed into leak-tight plastic sample containers, which were labeled to identify material sampled and sample location and stored prior to transport to the laboratory facility. A chain of custody and analysis request was prepared for all samples collected.

Samples were analyzed by Polarized Light Microscopy (PLM) in accordance with the Environmental Protection Agency's Interim Method for the Detection of Asbestos in Bulk Insulation Samples, (EPA-600/M4-82020, December 1982) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

Non-friable Organically Bound (NOB) samples were analyzed via gravimetric reduction. In general, these materials are flexible-to-rigid asphalt, vinyl or of an organic type matrix. This includes, but is not limited to, vinyl asbestos tile, shingles, tar, rubber patch materials and carpet backing.

The protocol requires that samples are analyzed by a gravimetric reduction method and the samples are subject to a series of ashing and weighing prior to analysis. Once the NOB samples have been gravimetrically reduced they can then be analyzed via Polarized Light Microscopy (PLM).

If a NOB sample contains $\leq 1\%$ asbestos, the sample may be reported as asbestos containing and no further analysis is required. If PLM analysis indicates an asbestos concentration of $\geq 1\%$ then the absence of asbestos fibers must be confirmed by Transmission Electron Microscopy (TEM). This method is referred to as the Gravimetric Matrix Reduction Method (ELAP Items 198.1 and 198.4).

TLI is fully accredited by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) for compliance with laboratory guidelines, procedures and analytical proficiency samples in the analysis of asbestos in friable and non-friable materials in accordance with Section 502 of the Public Health Laws of the State of New York. TLI ELAP approval numbers are 10871 and 11142 for the Albany and Ossining laboratories, respectively.

TLI is also fully accredited by the National Institute of Standards and Technology (NIST) for bulk sample analysis under the National Voluntary Laboratory Accreditation Program (NVLAP) for compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. Copies of TLI's laboratory and inspection certificates are shown in Appendix C.

These criteria encompass the requirements of ISO/IEC Guide 25 and relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results.

5.0 Laboratory Test Results - Asbestos

Asbestos fibers were detected in the following materials:

Sample #	Material		Amount
004	Aircell Pipe Insulation	Crawl Space	75 Ln. Ft.

This amount is estimated, the floor over the crawl space was caved in.

A complete analytical report is displayed in Appendix B

6.0 Conclusion/Recommendations

Laboratory analysis confirms that asbestos fibers were detected in some of the materials collected at the site. Removal is required for confirmed ACM.

7.0 Cost Estimate for Asbestos Removal

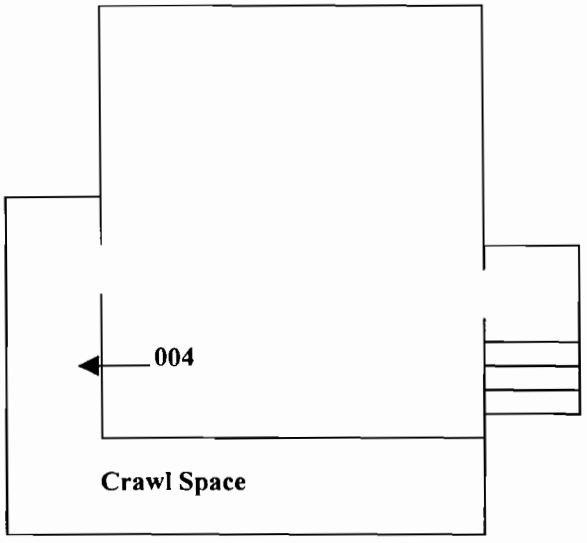
A cost estimate for the removal of asbestos containing material within the **252 Union Street Schenectady, New York** is shown below.

Cost Estimated for Asbestos Removals Only ..... $ 8,500.00

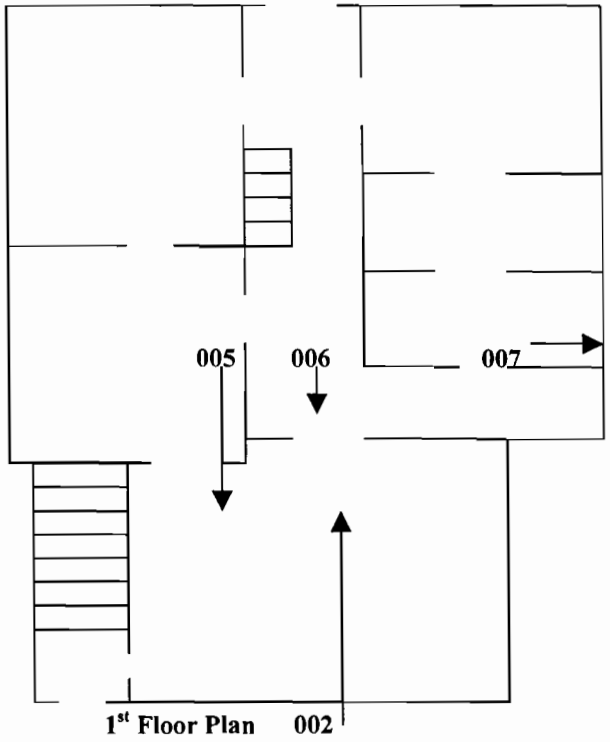
Testwell Laboratories, Inc.

Brian K. McLaren
Brian K. McLaren
Project Manager

Appendix A - Bulk Location Drawing

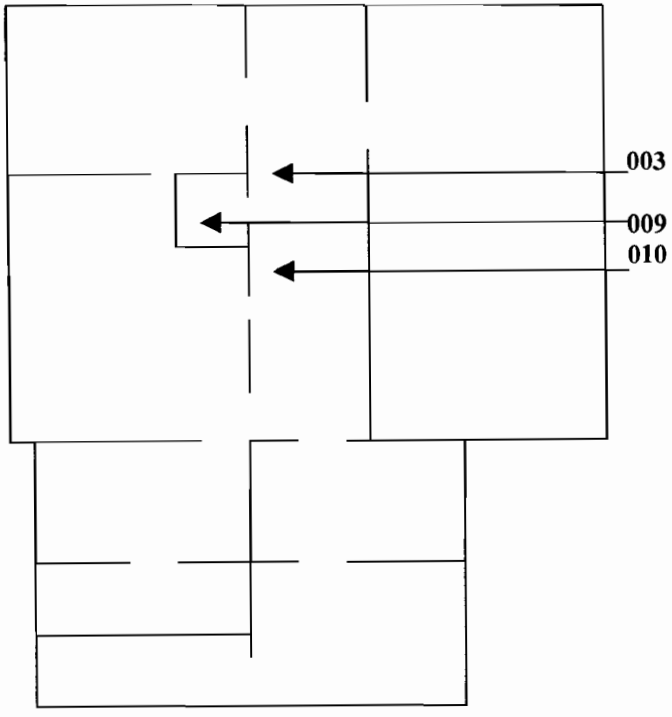


Basement Floor Plan

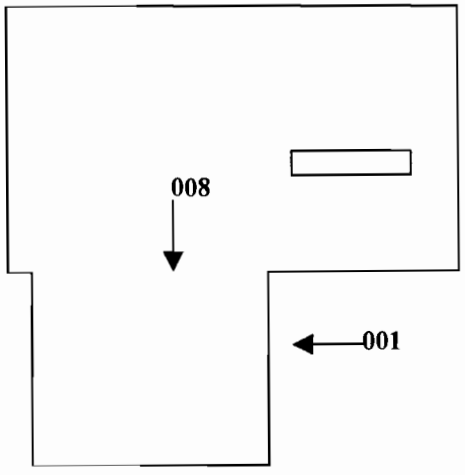


1st Floor Plan 002

2nd Floor Plan



Roof Plan



NORTH

Client:
Malcolm Pirnie, Inc.
15 Cornell Road
Latham, New York 12110

Site:
252 Union Street
Schenectady, New York

Consultant:
Testwell Laboratories, Inc.
30 Corporate Circle Suite 131
Albany, N.Y. 12203
(p): 518.464.6039
(f): 518.464.9522

Legend:

Aircell Pipe Insulation 75 Ln. Ft.
This amount is estimated the floor over the crawl space was caved in.

Scale: N/A

NYSDOL Designer # 88-10819
Brian K. McLaren

ASB - 001

Appendix B - Bulk Sample Reports

Testwell Laboratories, Inc.
30 Corporate Circle, Suite 131
Albany, New York 12203

Phone: **(518) 464-6039**
Fax: **(518) 464-9522**

Project: D-60-6

Sampling Date: February 26, 2001

Client: Malcolm Pirnie, Inc.

Inspectors: Bernie Moynihan

Site: 252 Union Street, Schenectady, NY

Analysis: I. Miller

Field Number	Log Number	Material Sample	Sample Location	Analysis	
001	635B T-612	Roofing Material	Roof	Negative By PLM/NOB Negative By NOB/TEM	
002	636B	Plaster	1st Floor	Cellulose Plaster Binder **N.A.F.D.**	10.0% 60.0% 30.0%
003	637B	Gypsum Board	2nd Floor	Cellulose Min Wool Gypsum Binder **N.A.F.D.**	20.0% Trace 60.0% 20.0%
004	638B	Pipe Insulation	Crawl Space	Chrysotile Cellulose Binder **N.A.F.D.**	17.3% 30.0% 52.7%
005	639B T-613	White/Grey Linoleum	1st Floor	Negative By PLM/NOB Negative By NOB/TEM	
006	640B T-614	Grey Linoleum	1st Floor	Negative By PLM/NOB Negative By NOB/TEM	
007	641B T-615	Window Glazing	Outside Building	Negative By PLM/NOB Negative By NOB/TEM	

Isabel Miller

Laboratory Director of Approved Signatory

Certifications: (*) ELAP NYS DOH # 10871 (*) NVLAP NUMBER 1102

COMMENTS: **N.A.F.D. - Means non-asbestos fibers detected.**

Testwell Laboratories, Inc.
30 Corporate Circle, Suite 131
Albany, New York 12203

Phone: (518) 464-6039
Fax: (518) 464-9522

Project: D-60-6

Sampling Date: February 26, 2001

Client: Malcolm Pirnie, Inc.

Inspectors: Bernie Moynihan

Site: 252 Union Street, Schenectady, NY

Analysis: I. Miller

Field Number	Log Number	Material Sample	Sample Location	Analysis	
008	642B T-616	Brown Linoleum	Attic	Negative By PLM/NOB Negative By NOB/TEM	
009	643B	Plaster	Hall	Cellulose Plaster Binder **N.A.F.D.**	10.0% 60.0% 30.0%
010	644B	Plaster	2nd Floor	Cellulose Plaster Binder **N.A.F.D.**	10.0% 60.0% 30.0%

Isabel Miller

Laboratory Director of Approved Signatory

Certifications: (*) ELAP NYS DOH # 10871 (*) NVLAP NUMBER 1102

COMMENTS: **N.A.F.D. - Means non-asbestos fibers detected.**

Appendix C - Testwell Laboratories, Inc.

STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
BUILDING 12, STATE CAMPUS
ALBANY, NY 12240

ASBESTOS HANDLING LICENSE

RESTRICTED LICENSE

LICENSE NUMBER: 99-1096
DATE OF ISSUE: 12/05/00
EXPIRATION DATE: 12/31/01

Contractor: Testwell Laboratories, Inc.

Address: 47 Hudson Street
Ossining, NY 10562

Duly Authorized Representative: Charles Schnugg

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Richard Cucolo, Director
FOR THE COMMISSIONER OF LABOR

DOSH 432 (1-98)

United States Environmental Protection Agency

This is to certify that:

Testwell Laboratories, Inc.

47 Hudson Street
Ossining, NY 10562

has fulfilled the requirements of the Toxic Substances Contol Act (TSCA) Section 402(a)(1), and has received certification as a firm, pursuant to 40 CFR Part 745.226 to conduct lead-based paint activities:

Jurisdiction: State of New York excluding Indian Tribes

This certification is valid for three (3) years from the date of issuance and expires May 28, 2003.

Certification # NY-01-052003-275 Issued on: May 29, 2000

Jeanne M. Fox
Regional Administrator

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 200
ISSUED April 1, 2000
REVISED July 18, 2000

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.: 10871

Director: MS. ISABEL CATLIN
Lab Name: TESTWELL LABORATORIES INC
Address : 30 CORPORATE CIRCLE - STE 131
ALBANY NY 12203

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:

Miscellaneous :
Asbestos in Friable Material

Serial No.: 107478

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)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

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Address : 30 CORPORATE CIRCLE - STE 131
ALBANY NY 12203

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/AIR AND EMISSIONS

All approved subcategories and/or analytes are listed below:

Miscellaneous Air :
Fibers

Serial No.: 107477

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)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 2001
ISSUED April 1, 2000
REVISED August 8, 2000

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.: 11142

Director: MR. DOMINIC PERRUCCIO
Lab Name: TESTWELL LABORATORIES INC
Address : 47 HUDSON STREET-BUILDING B
OSSINING NY 10562

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/AIR AND EMISSIONS

All approved subcategories and/or analytes are listed below:

Miscellaneous Air :
Asbestos
Fibers

Serial No.: 107817

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)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 200.
ISSUED April 1, 2000
REVISED August 8, 2000

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.: 11142

Director: MR. DOMINIC PERRUCCIO
Lab Name: TESTWELL LABORATORIES INC
Address : 47 HUDSON STREET-BUILDING B
OSSINING NY 10562

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/ POTABLE WATER

All approved subcategories and/or analytes are listed below:

D.W. Miscellaneous :
Asbestos

Serial No.: 107816

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)

NEW YORK STATE DEPARTMENT OF HEALTH

ANTONIA C. NOVELLO, M.D., M.P.H. Commissioner

Expires 12:01 AM April 1, 200
ISSUED April 1, 2000
REVISED August 8, 2000

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.: 11142

Director: MR. DOMINIC PERRUCCIO
Lab Name: TESTWELL LABORATORIES INC
Address : 47 HUDSON STREET-BUILDING B
OSSINING NY 10562

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:

Miscellaneous :
Asbestos in Friable Material
Asbestos in Non-Friable Materia

Serial No.: 107818

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)

The American Industrial Hygiene Association

is proud to acknowledge that

Testwell Laboratories, Inc.

Ossining, NY

has fulfilled the requirements for and has been formally recognized by AIHA
and is technically competent to perform the analyses listed in the following

SCOPE OF ACCREDITATION

INDUSTRIAL HYGIENE Originally Accredited: 02/01/92		ENVIRONMENTAL LEAD Originally Accredited: 07/15/99		ENVIRONMENTAL MICROBIOLOGY
___Metals	___Silica	_X_Paint Chips	___Air	___Bacteria
_X_Asbestos PCM	___Asbestos PLM	_X_Dust Wipes	_X_Soil	___Fungi
___Organic Solvents	___Diffusive Samples			

The above named laboratory agrees to perform all analyses listed above in the scope of accreditation according to applicable policy requirements and acknowledges that continued accreditation is dependent on successful participation in the appropriate proficiency testing programs. This laboratory may be contacted to verify the current scope of accreditation, proficiency testing performance and accreditation status. Accreditation by AIHA is not a guarantee of the validity of the data generated by the laboratory.

Laboratory # 6965

Certificate # 486

Accreditation Expires: 07/15/02

Christine A. Kearney

Christine A. Kearney
Chair, Analytical Accreditation Board

James R. Thornton

James R. Thornton, CIH, CSP
President, AIHA

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

TESTWELL LABORATORIES, INC./TESTWELL INDUSTRIES, INC.
OSSINING, NY

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 2001
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 200083-0

NVLAP-01C (11-95)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

TESTWELL LABORATORIES, INC./TESTWELL INDUSTRIES, INC.
OSSINING, NY

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

AIRBORNE ASBESTOS FIBER ANALYSIS

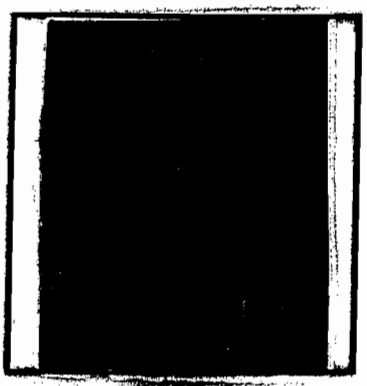
June 30, 2001
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 200083-0

NVLAP-01C (11-95)

MUST BE CARRIED ON ASBESTOS PROJECTS



CERTIFICATE NUMBER	
AH 88-10819	
EXPIRES	
SOCIAL SECURITY NUMBER 086-56-9736	
EYES BRO	HAIR BRO
WEIGHT 150 lbs.	HEIGHT 5 ft. 04 in.

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

193897C

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

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES
C (11/01), D (11/01), E (11/01)
H (11/01), I (11/01)

BRIAN K MCLAREN
TROY HILL APT BLDG. 18 #2-C
TROY, NY 12180

RICHARD CUCOLO, Director - For the Commissioner of Labor
DOSH-442 (01/91)

AH 96-12226

EXPIRES

SOCIAL SECURITY NUMBER
076-30-5561

EYES	HAIR
BLU	GRY

WEIGHT	HEIGHT
187 lbs.	6 ft. 02in.

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

1127610

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

ASBESTOS HANDLING CERTIFICATE
AUTHORIZED CLASSES

C - SAMPLING TECHNICIAN (03/01)
D - INSPECTOR (03/01)
H - PROJECT MONITOR (03/01)

BERNARD MOYNIHAN
321 MARGARET STREET
HERKIMER, NY 13350

RICHARD CUCOLO, Director - For the Commissioner of Labor

DOSH-442 (01/91)

ATTACHMENT 5

References

REFERENCES

Caldwell, D.H. and R.J. Dineen, 1987, Surficial Geological Map of New York, Hudson-Mohawk Sheet, New York State Museum-Geological Survey, Map and Chart Series No. 40, Scale 1:250,000.

Malcolm Pirnie, Inc., 2000, Site Investigation/Remedial Investigation Report, Brownfields Site Investigation/Remedial Alternatives Report, Former Ladd's Gas Station, Schenectady, New York.

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United States Environmental Protection Agency (USEPA), 1996, Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risk Associated with Adult Exposures to Lead in Soil.