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SOUTH STREET ASBESTOS SITE WALPOLE, MA REMOVAL PRELIMINARY INVESTIGATION

NOVEMBER 17, 1986

Bly - min



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TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-01-6669

November 19, 1986

Mr. Steven R. Novick
Deputy Project Officer
U.S. Environmental Protection Agency
60 Westview Street
Lexington, MA 02173

Dear Mr. Novick:

The accompanying report, South Street Asbestos Site - Walpole, MA - Preliminary Investigation is submitted to complete the requirements of TDD #01-8611-20, PCS #6044. OSC Paul Groulx directed that the TAT conduct a preliminary investigation of the South Street site in Walpole, Massachusetts. TAT members John Hagopian and Mark McDuffee conducted that investigation on November 17 and prepared this report for the OSC's use.

If there are any questions, I may be contacted at (617)229-6430.

Sincerely,

ROY F. WESTON, INC.

Larry J. Dziuk, Ph. D. Technical Assistance Team

Leader

cc: Paul Groulx

LJD/bpb

6044 TECHNICAL DIRECTION DOCUMENT (TDD) . COST 2. NO.: OHM EMERGENCY RESPONSE AND CENTER: 0/86/120 SPILL PREVENTION PROGRAM 2A. TYPE: ROY F. WESTON, INC. 4. SOURCE OF FUNDS: 3. PRIORITY: 5. EPA SITE ID 6. COMPLETION 8. REFERENCE (IF APPLICABLE): DATE INFO: 430 文 CERCLA (1) 9/86 PM ₩ HIGH (1) XYES INO 5A. EPA SITE NAME ☐ MEDIUM (2) ☐ 311 (2) 7. OVERTIME ATTACHED (IF APPLICABLE): APPROVED: OTHER (3)\_ D PICK UP □ LOW (3) WALKLE, Ma YES INO GENERAL TASK DESCRIPTION: ASSIST OSC AS REQUIRED IN PRELIMINARY INVESTIGATION OF ASBESTOS SITE AT WALPOLE MASSACHUSETTS FOR POSSIBLE REMOVAL ACTION AT THE REQUEST OF THE STATE OF MASSACHUSETTS. SPECIAL PROJECT - ESTIMATED COST: \_\_\_\_\_\_ ESTIMATED HOURS: 86 TDD 01861120 # 6044 b. SPECIFIC ELEMENTS:\_ 11. INTERIM DEADLINES: 1. ASSIST THE OSC AS REQUIRED IN DOCUMENTATION OF PRELIMINARY SITE ASSESSMENT AT ASBESTOS SITES AS FOLLOWS: a. prepare a comprehensive detailed and discriptive report of all site observations. STOTE Resuls! b. prepare and mount as required all photo documentations. to ASSISTANCE c. prepare a field sketch map of site with sample locations and exposed asbestos, and any other pertinent information. d. prepare a summary of samples taken and analysis data. e. assemble all information required to complete CDC FORM f. Compile good reproductions of maps(USGS, STATE&CITY, TAX) g. Neatly assemble all pertinent information available relating to the site, such as tax maps, property deeds etc. h. submit to the OSC all cost incurred, and obligated pertaining to this project. ie; A financial summary sheet. i. a comprehensive summary report relating to the site with comments, conclusions and options available relating to this site for delivery to the CDC center for site health FORMAL BRIEFING 12 DESIRED REPORT FORM: FORMAL REPORT & 11/18/186 OTHER (SPECIFY): 3 Coffee WITH PIETURES / 1 MASTER for DUR. WITH DREFT COMMENTS: REVIEW Previous work SITOS. Be utilized for CDC HEALTH ADVISORY 15. DATE: 14. AUTHORIZING DPO: (SIGNATURE) 17. DATE: RECEIVED BY: 

ACCEPTED ACCEPTED ACCEPTED WITH EXCEPTIONS DESECTED (TATL SIGNATURE)

RIPTOR

### **PURPOSE**

The purpose of this investigation is to define the visual extent of asbestos waste at the South Street Asbestos site in Walpole, MA, and substantiate if a public health threat and environmental problem exists according to guidelines established under CERCLA.

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### SITE BACKGROUND

The South Street Asbestos site is located in Walpole, Ma. where the Neponset River crosses South Street. The areas located to the east and west of South Street at the Neponset River junction are contaminated with asbestos waste products. Both areas are owned by the Shaffer Realty Corporation. The site has had industries located there since the early 1800's. The industries included the manufacturing of snuff, wrought iron, tanning products, clothing, cotton batting, and wicking products at various times within the 1800's. Around 1900, the Massachusetts Chemical Company, located there, produced rubber products. The Multiple Triple Woven Hose and Rubber Co. (later known as MULTIBESTOS) located there in 1915 and soon after began manufacturing brake linings containing asbestos. In the mid 1930's, MULTIBESTOS closed the facility due to a class action suit brought by employees suffering respiratory ailments. then, the properties have been occupied by Walpole Factories, Industrial Properties, General Fiber, and the Kendall Corporation who used the facility for a fabric manufacturing and bleaching In 1985, the Shaffer Realty Corporation bought the property and the facility has been vacant since then. In 11/12/80, the Massachusetts Department of Environmental Quality Engineering (MA DEQE) notified the Kendall Corp. that asbestos contamination was discovered on their property. The Kendall Corp. was ordered to cover up asbestos pile and on 12/9/80 received a letter from the MA DEQE stating compliance to that On 9/18/81, the Metropolitan District Commission (MDC), notified the MA DEQE of asbestos waste piles along the Neponset River at South Street observed while working on sewer lines in that area. In October of 1986 a Walpole citizen notified the MA DEQE that vast asbestos waste piles lined the banks of the Neponset River banks at South Street. The MA DEQE responded to the site and obtained samples confirming the presence of asbestos waste products and secured the area to prevent public access. The MA DEQE requested the United States Environmental Protection Agency (US EPA) assistance on October 12, 1986, and on 11/17/86 the US EPA Oil and Hazardous Material Section (OHM) performed a preliminary investigation.

### SITE DESCRIPTION

The South Street asbestos site is located at 80 South Street in Walpole, Massachusetts. The property on which the site exists is presently owned by at least two entities: the Shaffer Realty Trust Corporation, and a residential realty trust group. From information gathered at Walpole assessor's office, the Shaffer Realty Trust Corporation owns lots 1235-1, 1235-8, 1235-4, and lots 1235-2-A. The residential realty group owns lot 1249, listed as owned by Willis D. McLean et al. These lots comprise the site as it has been presently established (see site description map).

The site is divided into a west section and east section by South Street. The east section is owned by Shaffer Realty and contains 1235-2-A. It is approximately 2.5 acres in size, and is presently utilized by Atlas Van Lines, Stop & Shop box recycling, and Cosmec, Inc. Cosmec operates a foundry and manufactures bridge and highway expansion strips.

This lot containing these industries is bounded to the east by an abandoned Conrail railroad grade, to the south by a wooded marsh through which the Neponset River flows, to the north by residences, and to the west by South Street. The lot is partially paved, and contains cement pads where Stop & Shop stores roll off box trailers for recycled box storage. Behind the foundry is a non paved portion of road, and a pile of soil and debris. The pile has been analyzed by the Massachusetts Department of Environmental Quality Engineering (MA DEQE) and contains woven fiber asbestos material. The pile is presently covered with visquene and encircled with caution tape. Asbestos warning signs are also present.

A cyclone fence, installed by Stop & Shop, separates the rear of lot from the abandoned Penn Central Railroad grade, and the south side of the lot from the Neponset River/marsh.

The west side of the site contains lots 1235-1, 1235-8, 1235-4, a portion of lot 1249, and is approximately 10 acres in size. Lots 1235-1, 1235-8, and 1235-4 are owned by Shaffer Realty Trust Corporation. Lot 1235-1 is the former site of the Kendall Corporation. The lot contains a manufacturing building, a parking lot, a series of above and below ground storage tanks, and a lagoon with cement and grate conduit leading into it. The lot is bounded by cyclone fence and locking gates, a stockade fence is on the north side of the lagoon, and a drainage ditch, into which an abandoned conduit leads, is behind the lagoon.

Behind the acid tanks is a berm-like pile of gravel, in which fibrous material is visible. The MA DEQE collected samples of this material, and through analysis determined it to contain 80% asbestos. The MA DEQE also collected a board sample from near the lagoon and determined it to contain 55 % asbestos.

The topography of lot 1235-1 is generally sloping eastward toward the rear of the property, where it drops down toward a tributary - like feature. The lot is bounded to the east and northeast by cyclone fence, fir trees, and residences; to the south by cyclone fence and lot 1235-8, and to the east by cyclone fence and South Street.

Lot 1235-8 is on the north bank of the Neponset River, and partially on the south bank. A foot bridge - conduit connects the north and south banks in the east side of the lot. The lot is bounded to the east by South Street, and to the south by lot 1235-4. It is heavily wooded, with steep slopes leading down the river. Outcropping from wash cuts and on the surface of both the north and the south banks all along the river are found red and black friable board material, brake plates, fibrous woven brittle and pliable clutch plates, and white, red, and black baghouse material. Samples of black flat board with holes, woven graygreen fabric board, black earth, and black fibrous muli-layered paper were collected along the banks of the river by the MA DEQE. These materials appear to have been deposited as fill. These materials are observed in the river as well.

The area of this site containing lots 1249 and 1235-4 appears to have been deposited as fill. This area contains on the surface fibrous woven material, similar to that seen along the banks of the Neponset River. South of the Neponset River is the northeast corner of lot 1249 is a large outcrop of long strands of black - dark green fibrous woven material, which extends from the Neponset River southward toward the southern boundry of lot 1235-4. This portion of the site is heavily wooded and generally flat sloping abruptly to the north toward the Neponset River, and west across the outcrop area. A cyclone fence bounds the southern portion of lot 1235-4 and extends into lot 1249 approximately 100 feet, heading north across the Neponset River and joining with fence on the south side lot 1235-1 (see site description map).

## EVALUATION OF POTENTIAL FOR HUMAN EXPOSURE

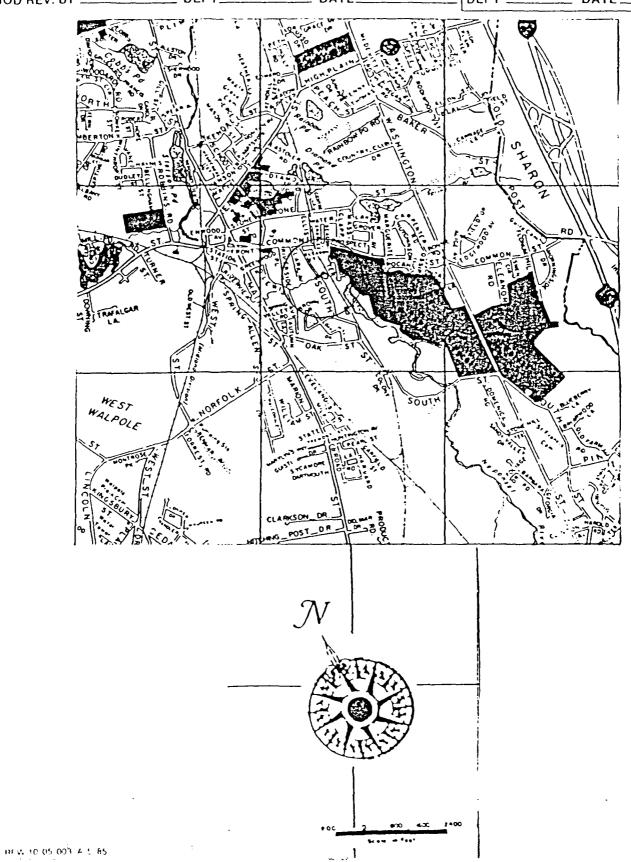
| Identifying I  | nformation   |
|----------------|--|
| EPA Site Iden  | tification Number  |
| Information of | n this form is correct as of: Month November Day 19 Year 1986  |
| Site Name So   | uth Street Asbestos Site   |
| Site Street A  | ddress South Street  |
| Incorporated   | Town or City (If none, so state) Walpole, MA   |
| EPA Contact    | Paul Groulx Phone # (617) 861-6700   |
| Organization _ | USEPA Oil and Hazardous Materials Section  |
| Address        | 60 Westview Street, Lexington, MA  |
| State MA       | County Norfolk . City Walpole  Zip Code 02081  |
|                | quadrangle containing site Medfield, MA  |
| Distance from  | site to closest existing residence (meters) 10  site to nearest spot where a residence could legally be built (meters) less than 1 |
| Estimated popu | elation within 500 meters of site boundary 3500  |
| Activity(ies)  | on site (check all that apply):  |
|                | field (x) Parking Lot  |
| Specify Other  | On the south side of the South Street Site the tract of land   |
|                | contains buildings utilized by a moving company, a foundry, a  |
|                | recycling facility, and a manufacturing company.   |

| (x)<br>()   | Cyclone Fence ( ) Other topographic discontinuity (specify below) Other Fence Body of Water ( ) For certain areas no barriers exist (specify below) Cliff (x) No barriers exist Other barriers (specify below)  |
|---|---|
| Spec  | ify A pile of material containing asbestos exists on lot 1235-2-A.  |
|   | No barrier exists around this pile.   |
|   |   |
|   | test distance from access-limiting<br>ier to any area of exposed asbestos (meters) <u>less than 3 met</u> ers   |
| Data  | on Possible Exposure Pathways   |
| ls a  | ny part of the site within the 100-year flood plain? ( $_{\rm X}$ ) Yes ( ) No  |
|   | If yes, about what percentage of the site? 30 %   |
| Exis  | ting stream classifications (check all that apply):   |
|   |   |
| ( )<br>( <sub>x</sub> )                           | Class A - Drinkable Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing Class D - Transportation  |
| ( )<br>( x)<br>( )                                | Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing   |
| ( )<br>( x)<br>( )<br>Wate                        | Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing Class D - Transportation  |
| ( )<br>( x)<br>( )                                | Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing Class D - Transportation  r uses downstream from site (check all that apply):  Drinking ( ) Recreation (boating), no contact  |
| ( ) ( x) ( ) Wate ( ) ( ) Spec:                   | Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing Class D - Transportation  r uses downstream from site (check all that apply):  Drinking ( ) Recreation (boating), no contact Fishing, water sports ( ) Other uses (specify below)   |
| ( ) ( x) ( ) Wate ( ) ( ) Spec:                   | Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing Class D - Transportation  r uses downstream from site (check all that apply):  Drinking ( ) Recreation (boating), no contact Fishing, water sports ( ) Other uses (specify below)  afy Other  cify by name: Neponset River  |
| ( )<br>( x)<br>( )<br>Wate<br>( )<br>( )<br>Spec: | Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing Class D - Transportation  r uses downstream from site (check all that apply):  Drinking () Recreation (boating), no contact Fishing, water sports () Other uses (specify below)  ify Other  rify by name: Neponset River  which direction is the wind most often blowing at the site? |
| ( ) ( x)            | Class B - Primary & secondary contact recreation, fishing Class C - Secondary contact recreation, fishing Class D - Transportation  r uses downstream from site (check all that apply):  Drinking ( ) Recreation (boating), no contact Fishing, water sports ( ) Other uses (specify below)  afy Other  cify by name: Neponset River  |

11.

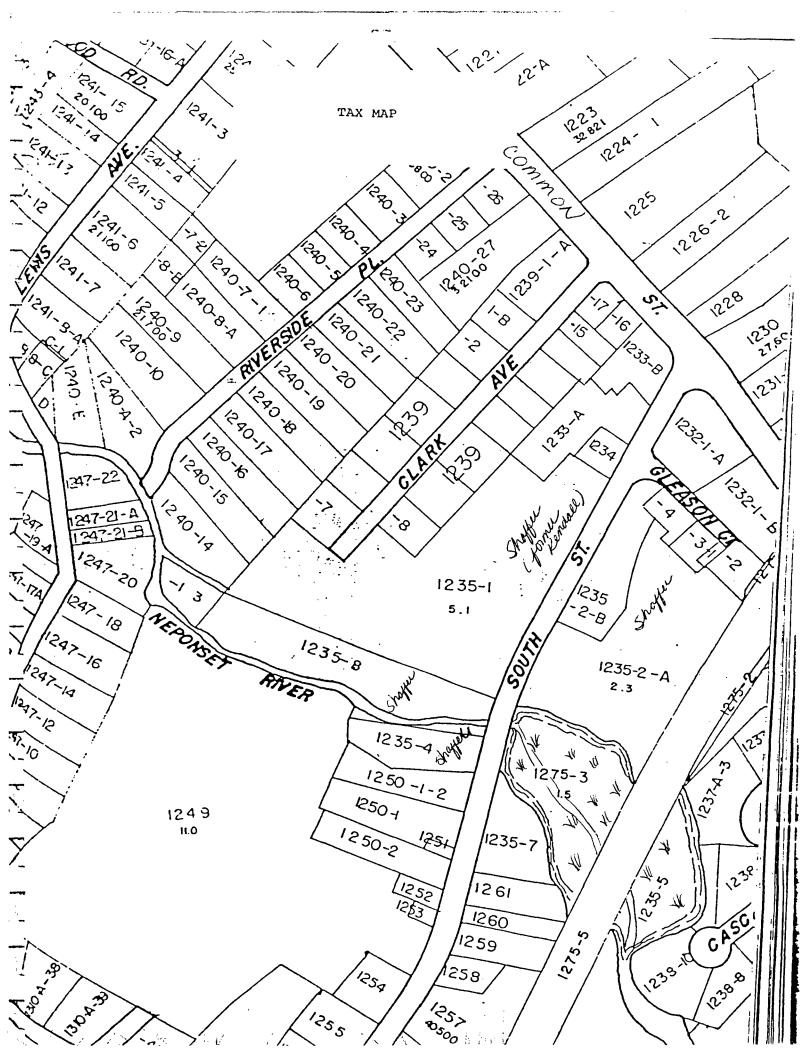


|                  |              | (A Substitute Constitution |            | •        | SHEET       |             |
|------------------|--------------|----------------------------|------------|----------|-------------|-------------|
| CLIENT/SUBJECT   | LOCATION     | MAP                        |            | _ w.o. N | 10          |             |
| TASK DESCRIPTION | South Street | Asbestos Site              | , WALPOLE, | MA.      | TASK NO     | <del></del> |
| PREPARED BY      | DEPT         | DATE                       |            |          | APPROVED BY |             |
| MATH CHECK BY    | DEPT         | DATE                       |            |          |             |             |
| METHOD REV RY    | DEPT         | DATE                       |            | DEPT     | DATE        | i           |





SHEET\_\_\_\_\_ of \_\_\_\_ ENT/SUBJECT <u>EPA - Sample Locations</u> w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_\_\_\_\_ w.o. no. \_\_\_ PARED BY MJM \_\_\_\_ DEPT\_\_\_\_\_ DATE 11-18-86 APPROVED BY \_ DEPT\_\_ THICHECK BY\_\_\_\_\_ THOD REV. BY \_\_\_\_\_ DEPT \_ DEPT\_\_\_\_\_ DATE\_ \_\_\_\_ DATE\_ 57 -58-SII,SIO 59 SOUTH STREET NEPONSET . RIVER fence sample location



| SITE DESCRIPTION             | owner   | TAX MAP | LOT      |
|------------------------------|---|---------|----------|
| 7 Gleason Ct.<br>668-2924    | Michetti, Linda J &<br>Bertone, Priscilla A   | D-12    | 1232-2   |
| 11 Gleason Ct.<br>668-9001   | Cashorali, Mike A & Thelma A  | D-12    | 1232-3   |
| 11 Gleason Ct.<br>668-9001   | Cashora , Miko &<br>Thelma A  | D-13    | 1232-4   |
| 7 & 9 South St.<br>668-8125  | Moore, Richard  | D-12    | 1233-A   |
| 11 South st.                 | Lenker, William A &<br>Beth A   | D-12    | 1234     |
| South St. de 825-9040        | Shaffer, Milton, Irving,<br>Burton, BIM Investment<br>Trust - 98 Taylor St.<br>Dorchester, MA 02122 | D-12    | 1235-1   |
| 62 South St.                 | Shaffer Realty Corp.  | D-12    | 1235-2-A |
| 62 South St.                 | Shaffer Realty Corp. of Chelsea   | D-12    | 1235-2-B |
| South St.                    | Shaffer Realty Corp.  | D-12    | 1235-3   |
| 26 South St.                 | Shaffer - BIM   | D-12    | 1235-4   |
| South St.                    | Shaffer Realty Crop.  | D-12    | 1235-5   |
| South St.                    | Shaffer Realty Corp.  | D-13    | 1235-7   |
| South St.                    | Shaffer Realty Trust  | D-12    | 1235-8   |
| 55 Clark Ave.                | Rockwood, Allen D. &<br>Robert C Trs.<br>55-57 Clark Ave. Trust<br>926 Main St., Walpole, MA        |         | 1239-7   |
| 46 Clark Ave.                | Bissell, Willard H. & Helen M.  | D-12    | 1239-8   |
| 40 Clark Ave.<br>668-6617    | Hickey, William J.  | D-12    | 1239-9   |
| 32 Clark Ave.<br>668-5476    | Francois, Ernst & Sodnie R.   | D-12    | 1239-10  |
| 26-28 Clark Ave.<br>668-1675 | Barry, Charles &<br>Theresa Dewey, Jo Ann   | D-12    | 1239-11  |

| SITE DESCRIPTION            | OWNER                                     | TAX MAP | LOT       |
|-----------------------------|---|---------|-----------|
| 83 South St.<br>668-8039    | Barmon, Margaret M.                       | D-12    | 1250-12   |
| 97 South St.<br>668-1572    | Sneppulu, Jeralo F.                       | D-12    | 1250-2    |
| 89 South St.                | St. Cyr Margaret M.                       | D-12    | 1251      |
| 97 South St.<br>668-1572    | Sheppard, Geral e.                        | D-12    | 1252      |
| 97 South St.<br>668-1572    | Sheppard, Gerald F.                       | D-12    | 1253      |
| 113 South St.<br>668-1878   | Lawes, Wayne S                            | D-12    | 1254      |
| 123 S. St.<br>668- 5397     | Leone, Richard et ux<br>(Karen H.)        | D-12    | 1255      |
| 94 South St.<br>668-9290    | Burke, Richard<br>96 South St., Walpole   | D-12    | 1261      |
| south st.                   | Shaffer Realty Trust                      | D-12    | 1275~1    |
|                             | (Missing)                                 | D-12    | 1275-2    |
|                             | (Missing)                                 | D-12    | 1275-3    |
|                             | Shaffer Realty Trust                      | D-12    | 1275-5    |
| 106 Lewis Ave.<br>668-6269  | Munro, David M et. ux (Nancy M.)          | D-12    | 1310-1-A  |
|                             | Dot Realty Trust,<br>J. Hibbert (Trustee) | D-12    | 1230-6-A  |
| 28 Brown Dr.<br>668-4699    | Karaian, Richard D. et a                  | иж D-12 | 1310-A-37 |
| 30 Brown Dr.<br>668-7522    | Fitgerald, John F. (et ux) Mary L.        | D-12    | 1310-A-38 |
| 32 Brown Dr.<br>668-1847    | Bono, Anthony &<br>Deborah A              | D-12    | 1310-A-39 |
| 27 Cak Hill Dr.<br>668-6329 | Szun, John T et ux<br>(Susan R.)          | D-12    | 1310-A-40 |

### EPA SAMPLING INFORMATION

| SAMPLE #   | DESCRIPTION               | ANALYSIS* |
|------------|---------------------------|-----------|
| Sl         | Gray baghouse in soil     |           |
| S2         | Black friable board       |           |
| S3         | Brittle clutch plate      |           |
| S4         | Black baghouse            |           |
| <b>S</b> 5 | Red board                 |           |
| <b>S</b> 6 | Black brake plate         |           |
| <b>S</b> 7 | Gray pliable clutch plate |           |
| S8         | Black brittle board       |           |
| S9         | Padding, woven material   |           |
| <b>S10</b> | Red, White baghouse       |           |
| S11        | White baghouse            |           |

<sup>\*</sup> Analysis will follow at later date.

FOR: PAUL GROULX - ESD-OHM

DATE: 20NOV. 1986

ANALYST: HOWARD DAVIS

12/1/wsK

EPA REG. 1 LAB

Analytical Method: PLM with Dispersion Staining All Quantities Are Estimated Volume Percent

LEXINGTON, MASS. 021713/193

111703-86 111702-86 111701-86 111705-86 111704-86 Laboratory ID No. 87085 87081 87083 87084 87082 Sample ID No. S. STREET S. STREET S. STREET S. STREET S, STREET Address or WALPOLE, MA. WALPOLE, MA. Building WALPOLE, MA. WALPOLE, MA; WALPOLE, MA. 5-2 Location 5-4 5-1 5 - 35-5 1/2" THICK WOVEN BRICK RED, MULTI-BLACK, FIBROUS, DARK BROWN BROWN SOIL Sample LAYERED PAPER. LUMPY MUD. HUMUS MATERIAL Appearance CHRYSOTILE-1-3 CHRYSOTILE-60 CHRYSOTILE-80 CHRYSOTILE-60 CHRYSOTILE-Asbestos Present 10-15 Type and Percent CELLULOSE DECAMED VEGETATION CELLULOSE - 30 CELLULOSE -TRACE CELLULOSE-TRACES Other Fibrous DECAYED VEGETA-Materials Present -TION Type and Percent DIRT, SAND, DIATOM DIRT, SAND, IRON DIRT, SAND, IRON RED PIGMENT BINDER Ion-Fibrous PARTICLES, GRAPHITE PARTICLES Materials Present Percent Total 1%-3% 60% 10-15% 60%: 80% Asbestos Present In Sample RAGHOUSE WASTE 7 Remarks

> UNITED STATES \_ ENVIRONMENTAL PROTECTION AGENCY

# EPA REG 1 LAB

DATE: 22NOV.1986 ANALYST: HOWARD DAVIS

Analytical Method: PLM with Dispersion Staining All Quantities Are Estimated Volume Percent

LEXINGTON MASS, 02173

| LEXINGTON  | , MASS. 021.                                    | / 3   | ·  |                               | γ - <del></del>                   |
|--|---|---|--|-------------------------------|-----------------------------------|
| Laboratory ID No.                                  | 111706-86                                       | 111707-86   | 111708-86  | 111709-86                     | 111710-86                         |
| Sample ID No.                                      | 87086   | 87087   | 87088  | 87089                         | 87090                             |
| Address or<br>Building                             | S. STREET<br>WALPOLE, MA.                       | S. STREET WALPOLE, MA.                                | S.STREET<br>WALPOLE, MA.                         | S. STREET WALPOLE, MA         | S. STREET WALPOLE, MA.            |
| Location   | 5-6   | 5-7   | 5-8  | 5-9                           |                                   |
| Sample<br>Appearance                               | 1/4"THICK BRAKE<br>LINING, BLACK                | 3/1" THICK WOVEN<br>MATERIAL IN AN<br>ARC SHAPE 14"W. | BLACK, FIBROUS,<br>BOARD APPROX.<br>3/16" THICK- | 3/16"THICK WOVEN<br>MATERIAL. | BROWN, FIBROUS<br>MATTED MATERIAL |
| Asbestos Present . Type and Percent                | CHRYSOTILE-45                                   | CHRYSOTILE-80   | CHRYSOTILE-50                                    | CHRYSOTILE-90                 | CHRYSOTILE—<br>TRACES<br>TO 1%    |
| Other Fibrous Materials Present - Type and Percent | NONE  | CELLULOSE- 10   | PLANT FIBERS                                     | CELLULO SE -TRACE             | PLANT FIBERS, CELLULOSE - 80      |
| Non-Fibrous<br>Materials Present                   | BLACK, OPAQUE MATRIX<br>MTL., MINERAL<br>FILLER | BINDER  | BLACK MATRIX/<br>BINDER                          | BINDER                        | DIRT, SAND, PLASTE<br>CHIPS       |
| Percent Total<br>Asbestos Present<br>In Sample     | 45%   | 80%   | 50%  | 90%                           | < 1%;                             |
| Remarks  |   |   |  |                               | EASILY SEEN AB                    |
|  | <u></u>   |   |  |                               |                                   |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

3

# OR: PAUL GROWLX - ESD - OHM EPA REG.I LAB

DATE: 21 NDV. 1986

ANALYST: HOWARD DAVIS

Analytical Method: PLM with Dispersion Staining

All Quantities Are Estimated Volume Percent LEXINGTON, MA. 02173

| Laboratory ID No.  | 111711-86                 |               |        |           |     |
|--|---------------------------|---------------|--------|-----------|-----|
| Sample ID No.  | 87091                     |               |        | y #1      |     |
| Address or<br>Building                                   | S. STREET<br>WALPOLE, MA. |               |        |           |     |
| Location   | 5-11                      |               |        |           |     |
| Sample<br>Appearance                                     | GRAY, FIBROUS<br>CLUMPS   |               | •      |           | · · |
| Asbestos Present Type and Percent                        | NONE FOUND                |               |        |           |     |
| Other Fibrous<br>Materials Present -<br>Type and Percent | CELLULOSE-90              |               |        |           | •   |
| Non-Fibrous<br>Materials Present                         | SAND, MINERAL<br>FILLERS  |               | :      |           |     |
| Percent Total Asbestos Present In Sample                 | Ø                         |               |        |           | *   |
| Remarks  |                           |               |        |           |     |
|  |                           | UNITED STATES | ·————· | 60 WESTVI |     |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

### ASBESTOS BULK SAMPLE ANALYSIS

FOR: JOHN MAC AULEY - MASS DERE

DATE: 30 OCT. 1986

ANALYST: HOWARD DAVIS

5 COMMONWEALTH AVE. WOBURN, MASS. 01801

Analytical Method: PLM with Dispersion Staining All Quantities Are Estimated Volume Percent

| ······································            | The same of the sa | <del></del>                                     |  |  |  |
|---|--|---|--|--|--|
| Laboratory ID No.                                 | 102901-86DEQE  | 102902-86DEGE                                   | 102903 -86DEDE                                 | 102904-86 DEQE   | 102905-86 DEGE                                     |
| Sample ID No.                                     | 1029186  | 1029286   | 1029386  | 1029486  | 1029586  |
| Address or  | NEPONSET RIVER<br>SOUTH ST.<br>WALPOLE MASS  | NEPONSET RIVER<br>SOUTH ST.<br>WALPOLE, MASS.   | NEPONSET RIVER.<br>SOUTH ST.<br>WALPOLE, MASS. | [ <del></del>  | BLDG.<br>? SOUTH ST.<br>WALPOLE, MASS.             |
| cation  | BANKING 364 DS.<br>FROM FOOTBRIDGE   | BANKING, 3 FT, FROM<br>#1029186                 | BANKING  | BANKING-10FT<br>FROM 1029186                                   | NEAR ACID TANKS<br>REAR OF BLDG.                   |
| Sample<br>Appearance                              | 3/16"THICK, FLAT BOARD WITH HOLES DRILLED IN CORNELS   | 1/8" THICK, GRAY/GEN,<br>WOVEN FABRIC<br>BOARD. | BLACK EARTH                                    | BLACK, FIBROUS,<br>MULTI-LAYERED<br>PAPER                      | 3/16"THICK, GRAY AB BOARD, CURVED, PORTION OF ARC. |
| Asbestos Present<br>Type and Percent              | CHRYSOTILE- 50   | CHRYSOTILE-7D                                   | CHRYSOTILE-75                                  | CHRYSOTILE-45  | CHRYSOTILE-60                                      |
| Other Fibrous Materials Present - /pe and Percent | NONE   | CELLULOSE - 15                                  | CELLULOSE                                      | CELLULOSE  | NONE   |
| Non-Fibrous<br>Materials Present                  | MINERAL FILLERS,<br>ASPHALT (?) BINDER<br>CARBON ?   | BINDER  | BLACK, OPAQUE<br>FILLER                        | BLACK FILLER,<br>BINDER, SAND,<br>MINERAL FILLERS,<br>DIATUMS, | MINERAL FILLERS,<br>BINDER                         |
| Percent Total Asbestos Present In Sample          | 50%  | 70%   | 75%  | 45%  | 60%  |
| Remarks   |  |   | SIMILAR TO<br>BAGHOUSE<br>WASTE.               | SIMILAR APPEAR-<br>ANCE TO TAR<br>PAPER.                       |  |
|   |  |   |  |  |  |

UNITED STATES

ASBESTOS BULK SAMPLE ANALYSIS

| ∠or: | JOHN | MAC AULEY | - MASS | DEGE |
|------|------|-----------|--------|------|
|      |      | DAME HITH |        |      |

DATE: 30 OCT. 1986 ANALYST: HOWARD DAVIS

WOBURN, MASS, 01801

Analytical Method: PLM with Dispersion Staining All Quantities Are Estimated Volume Percent

102906 -86 DERE Laboratory ID No. 1029686 Sample ID No. BLDG. Address or SOUTH ST. 'ilding WALPOLE MASS. FROM GROUND, REAR Location OF BLOG, NEAR LAGOON. FLAT, DARK COLORED Sample BOARD. ~ 3/16" Appearance . THICK . COVERED WITH DIRT & SAND CHRYSOTILE-55 Asbestos Present Type and Percent CELLULOSE-TRACES Other Fibrous Materials Present pe and Percent MINERAL FILLERS Non-Fibrous BINDER Materials Present Percent Total 55% Asbestos Present In Sample Remarks

> UNITED STATES **PROTECTION AGENCY**

ASBESTOS BULK SAMPLE ANALYSIS

FOR: LAURI JACOBSON - MASS DEGE 5 COMMONWEALTH AVE. WOBURN, MASS. 01801

14 NOV. 1986 DATÉ:

ANALYST: HOWARD DAVIS

Analytical Method: PLM with Dispersion Staining All Quantities Are Estimated Volume Percent

| - | WOUNN, MASS                                       | . 01801                             |   |  | <del></del>                              |                               |
|---|---|-------------------------------------|---|--|--|-------------------------------|
|   | Laboratory ID No.                                 | 111201-86 DEQE                      | 111202-86 DEQE  | 111203-86 DERE                             | 111204-86DEQE                            | 111205-86 DEDE                |
|   | Sample ID No.                                     | 1112861                             | 1112864   | 1112866                                    | 1112867                                  | 1112868                       |
|   | Address or<br>Ruilding                            | OFF SOUTH ST. WALPOLE, MASS         | SAME  | SAME                                       | SAME                                     | 54 M E                        |
| 1 | ocation   | BEHIND STOP & SHOP<br>MUD/JUNK PILE | SAME,<br>MUD-JUNK PILE  | -SAME-<br>BOTTOM, SIDE OF<br>MUD-JUNK PILE | BEHIND KENDALL-<br>GRATING-              | BEHIND KENDALL<br>GRAVEL PILE |
|   | Sample<br>Appearance                              | GRAY/BLACK<br>FIBROUS MASS.         | BLACK, WET MUD,<br>SANDY  | BLACK MUD                                  | GRAY/RUST WET<br>FIBROUS MASS.           | GRAY, WET,<br>FIBROUS MASS.   |
|   | Asbestos Present<br>Type and Percent              | NONE FOUND                          | CHRYSOTILE-TRACE  | CHRYSDTILE-2-5                             | CHRYSOTILE-<br>TRACES                    | CHRYSOTILE-80                 |
|   | Other Fibrous Materials Present - ype and Percent | PLANT PARTS.                        | CELLULOSE PAPER RESIDUE, FIBER- GLASS, MINERAL WOOL, DELAYED VEGETATION | FIBERGLASS,                                | CELLULOSE-90+                            | CELLULOSE-TRACE               |
|   | Non-Fibrous<br>Materials Present                  | DIRT, SAND                          | SAND, DIRT, GRAVEL,<br>MICA   | \ <del></del>                              | SAND, RUST                               | SAND, DIRT                    |
|   | Percent Total Asbestos Present In Sample          | Ø                                   | << 1%   | 2-5 %                                      | < 1%                                     | 80%                           |
|   | Remarks   |                                     | `   | CHRYSOTILE<br>EASILY FOUND<br>IN SAMPLE.   | DEFINITELY PRESENT, BUT, VERY SMALL AMT. |                               |
| 1 |   | ·                                   |   | . <del></del>                              |  |                               |

#### SUMMARY

The United States Environmental Protection Agency (US EPA), Technical Assistance Team (TAT), Massachusetts Department of Environmental Quality Engineering (MA DEQE), and Centers for Disease Control (CDC) conducted a preliminary site investigation at the South Street Asbestos site in Walpole, MA. This included visual, written, and photographic observations and documentation of the entire site, making specific note of surface asbestos locations. Sampling of all types of surficial asbestos was conducted, and samples were submitted to the New England Regional Laboratory for analysis. A preliminary report including site history, site description, maps of sample locations and surficial asbestos, buildings, fences, and other important features, as well as MA DEQE and US EPA analytical results, tax maps, and other pertinent information are also contained in the preliminary investigation.

From analytical results of samples collected by the MA DEQE, it is evident that asbestos exists at the South Street Asbestos site in amounts ranging from < 1% to 80%.

The following personnel conducted the preliminary site investigation: US EPA - Paul Groulx

TAT (Roy F. Weston, Inc.)-John Hagopian
Mark McDuffee

MA DEQE - Laurie Jacobsen CDC - Marilyn Disirio



VI. APPENDICES

| U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 1  | LAB CODE Nº 87081  |
|--|--|
| PROJECT S Street Askestos STATE MA (WALPOL   |  |
| OLLECTOR M. MODUFFEE & J. HAMPRIAN   | STATION # [] [6]   |
| TELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS (CIRCLE ONE)  | YYMMDD DATE (SCILITY)  |
| ARAMETERS (CHECK APPROPRIATE)  | COLLECTION TIME [13] 3[5]  |
| acti NH3 COD   | SAMPLE TEMP °C   |
| NO2+3 PCB<br>SS TKN X-Ray  | PROBE-D.Q. (mg/l)  |
| orb T.P Other ASAFSTOS V   | pH - S.U   |
| METALS Total Dissolved   | CONDUCTIVITY   |
| METALS Total Dissolved  Cd   | SALINITY (0/00)  |
| Cu Hg Sn Zn  | TOTAL DEPTH (ft)   |
| ( (+6) Other   | SAMPLING DEPTH (ft)  |
| PAR 1 7500 30 *Unpreserved Sample  | Sulface  |
| the Company of the Co | Color of State of Sta |

| U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION   |  |
|---|--|
| DIVISION OF SURVEILLANCE AND ANALYSIS  60 WESTVIEW STREET  LEXINGTON, MASSACHUSETTS 02173 | CATE-YN-MOZDAY  FIG11 - 17  TIME 13 2 5  STATION NO. |
| S. Street Astristos   | SAMPLE NO. SIT (1) (8)                               |
| WALPULE, MA   | PRESERVATIVE   |
| SAMPLING CHEM (FIRST, INITIAL, LART NAME)  JOHN J. HALOPIKI  MARIC J. M.C. CLEEKE         | ANALYSIS<br>ASBECTUS                                 |

| PROJECT S SHO<br>COLLECTOR J. H<br>FIELD OBSERVATION<br>PARTIAL CLOU | WEGSTAN & M  | MA (INALICE)  MICH FFE  RAIN, SNOW, FOG  (CIRCLE ONE) | LAB CODE NO.  PROJECT # TOTAL  STATION # TOTAL  Y Y M M D  DATE PG [1]  | ∏ <b>5</b> €       |
|--|--|---|---|--------------------|
| PARAMETERS (CHECK  |  |   | COLLECTION TIME   | (।उ। हाइ)          |
| Bacti<br>BOD   | NH3 C  | 00 []   | SAMPLE TEMP °C  |                    |
| TSS Turb Organics VOA's  | TKN X  | CB Ray  | PROBE-D.O. (mg/l)<br>pH - S.U.  |                    |
| METALS   | Total Dis  | solved  | CONDUCTIVITY (micromhos/cm)   |                    |
| Cd<br>Cu<br>Cr (T)   | Fe PI Hg Si Mn Zr Ni Other   |   | SALINITY (0/00)  TOTAL DEPTH (ft)  SAMPLING DEPTH (ft)  |                    |
| √ R-1 7500-30  | *Unpreserved Sample  |   |   | JULI-LI<br>SURFACE |
| the contraction where additional and a second                        | and the second of the second o | N • N SALABAN   | e in the state of | Towns or           |

| LEXINGTON, MASSACHUSETTS 02173  SOURCE OF SAMPLE  SAMPLE NO.  SAMPLE NO. | in the second se | S. Street Asbestos  LUAL PULCE, M.R.  SAMPLING CREW (FIRST, INITIAL, LAST NAME) | PACSERVATIVE                  |
|--|--|---|-------------------------------|
|  |  | LEXINGTON, MASSACHUSETTS 02173  | 52<br>SAMPLE NO.<br>S17101817 |
| NAME OF UNIT AND ADDRESS DATE YR/MO/DAY                                  |  | U.S. ENVIRONA LATAL PROTECTION AGENCY - REGION                                  | <u> </u>                      |

| COLLECTOR J. HAWCRIAN & M. McDUFFER FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS (CIRCLE ONE)  AIR TEMP °C 45F TIDE: HIGH, EBB, LOW, FLOOD | STATION # I I I I I I I I I I I I I I I I I I   |
|---|---|
| PARAMETERS (CHECK APPROPRIATE)  Bacti BOD TSS Turb Organics VOA'S  METALS  Bacti NH3 COD PCB YCAB VOA'S  Other MSBCSTOS  Other                                    | DATE ALIVITY  COLLECTION TIME ASSIST  SAMPLE TEMP °C PROBE-D.O. (mg/l)  pH · S.U.  CONDUCTIVITY |
| Cd Fe Pb Sn Zn Other  Cr (T) Mn Other  El 500:30 'Unpreserved Sample  | (micromhos/cm)  SALINITY (0/00)  TOTAL DEPTH (ft)  SAMPLING DEPTH (ft)  SVRFRCE                 |

|          | U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION   | I BOSTON, MASS.                                |
|----------|---|--|
| <u>.</u> | NAME OF UNIT AND ADDRESS  | DATE-YR/MO/DAY                                 |
|          | DIVISION OF SURVEILLANCE AND ANALYSIS  60 WESTVIEW STREET  LEXINGTON, MASSACHUSETTS 02173 | 80-11-17<br>TIME<br>1300<br>STATION NO.<br>S 3 |
|          | 5. Street Asbestus  | SUB NO.  |
| ,        | WALPOLE, MA   | PRESERVATIVE                                   |
|          | SAMPLING CREM (FIRST, INITIAL, LAST NAME) TONO J. HAGOPIAN                                | AMOUNT   |
|          | MAPK J. MCDUFFEE  | ALEITUS.                                       |

| ( U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I   |                 |                | LAB CODE NO                 | 57084    |
|---|-----------------|----------------|-----------------------------|----------|
| PUECT S STICET RIGHTS STATE MIA (WALPOLE)   |                 |                | PROJECT #                   |          |
| CULLECTOR 11.   | LOVEREE 4       | J HAGONAN      | STATION #                   | <u> </u> |
| FIELD OBSERVATIONS. CLEAR, OVERCAST, RAIN, S. W. FOR PARTIAL CLOUDS (CIRCLE OF AIR TEMP °C 450° TIDE: HIGH, EBB, LOW, FLOOD |                 |                | DMMYY DATE [HILL]           |          |
| PARAMETERS (CHECK   | ( APPROPRIATE)  |                | COLLECTION TIME             | 13133    |
| Bacti 🗍   | инз 🔲           | cop 🗌          | SAMPLE TEMP *C              |          |
| BOD<br>TSS  | NO2+3<br>TKN    | PCB X.Ray      | PROBE D.O (mg/1)            |          |
| Turb<br>Organics  | T - P<br>O & G  | Other ASSESTOS | pH · S.U.                   |          |
| VOA's   | _               |                | CONDUCTIVITY (micromhos/cm) |          |
| METALS  | Total           | Dissolved      | SALINITY (0/00)             |          |
| C d<br>C u  | Fe<br>Hg        | Po Sn          | TOTAL DEPTH (ft)            |          |
| Cr (+6)   | Mn              | Z n Other      | SAMPLING DEPTH (            | m        |
| EPA_R-1 7500-30   | *Unpreserved Sa | mple           |                             | SURFACE  |
| <del></del>   |                 |                |                             | J        |

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| ũ     | U.S. ENVIRONMENTAL PROTECTION AGENCY - REGIO      |   |
|-------|---|---|
|       | GO WESTVIEW STREET LEXINGTON, MASSACHUSETTS 02173 | CATE Y R / MO / DAY  Sign 1   -1 7  TIME 355  STATION NO. |
| u i   | S. Street Asbestos<br>Walpole , MA                | SUP NO. SUB NO. SUB NO. PRESERVATIVE                      |
| SAMPI | MARE J. MCDUEFEE<br>JOHN J. HAHOPIRM              | ANALYSIE<br>MS BCSTOS                                     |

| U.S. ENVIRONMENTAL PROJECTION AGENCY REGION:  PHUJECT S. STEET ASSOCIATE MA (WALPOLE)  COLLECTOR M. MC DUFFEE & J. HALLOF A  FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS) (CIRCLE ONE)  AIR TEMP *C45° F TIDE: HIGH, EBB, LOW, FLOOD   | LAB CODE Nº 87185  PROJECT # 155  STATION # 155  Y Y M M D D  DATE 821117   |
|--|---|
| PARAMETERS (CHECK APPROPRIATE)  Bacti  | COLLECTION TIME I 4 O O  SAMPLE TEMP °C   PROBE-D.O. (mg/l)   pH · S.U.   CONDUCTIVITY  (micromhos/cm)  SALINITY (0/00)   TOTAL DEPTH (ft)   SAMPLING DEPTH (ft)   \$\include\text{CURFACE}\$ |
| U.S. ENVIRONMENTAL PROTECTION AGENCY—REGION NAME OF UNIT AND ADDRESS  DIVISION OF SURVEILLANCE AND ANALYSIS GO WESTVIEW STREET  LEXINGTON, MASSACHUSETTS 02173  BOURCE OF BAMPLE  S. Street Asbritos  W. G. L. O. O. L. M. A.  W. BAMPLING CREW UTRET, INITIAL, LAST NAME)  TOMN J. HALLOF, EN  MARK J. MCDUFFEE | TI BOSTON, MASS.  DATE YR/MO/DAY  SUBJECT OF THE STATION HO.  STATION HO.  STATION HO.  STATION HO.  PRESERVATIVE  AMOUNT   |

-we !

| COLLECTOR J. FIELD OBSERVATION PARTIAL CLOSE AIR TEMP CHSF  | NS: CLEAR, O JERCA<br>UDS<br>TDE HIGH, EBB, LOV | ST. RAIN. SNOW, FOC          | PROJECT # TT   |         |
|---|---|------------------------------|--|---------|
| PARAMETERS (CHEC  Bacti BOD TSS Turb Organics VOA'S  METALS | N H 3<br>N O 2 + 3<br>T K N<br>T · P<br>O & G   | COD PCB X.Ray Other ASRESTOS | COLLECTION TIME  SAMPLE TEMP °C  PROBE-D.O. (mg/l)  pH · S.U.  CONDUCTIVITY (micromhos/cm) |         |
| Cd<br>Cu<br>Cr (T)<br>Cr (+6)                               | *Unpreserved Sam                                | . 1                          | SALINITY (0/00)  TOTAL DEPTH (ft)  SAMPLING DEPTH (ft)                                     | SURFACE |

|       | U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION   | I BOSTON, MASS.                  |
|-------|---|----------------------------------|
|       | NAME OF UNIT AND ADDRESS  | DATE YR/MO/DAY                   |
| LABEI | DIVISION OF SURVEILLANCE AND ANALYSIS  60 WESTVIEW STREET  LEXINGTON, MASSACHUSETTS 02173 | 86-1+17 TIME 1400 STATION NO. 56 |
|       | S. Street Asbrita   | 817101816<br>SUP NO.             |
|       | - Wolpoie HA  | PRESERVATIVE                     |
| MPLE  | SAMPLING CREW (FIRST, INITIAL, LAST WANE)  JOHN J. HALODIAN  MARK J. MCDUFFEE             | AMOUNT                           |
| SAI   | MARK T. MODIFFEE  | ASBESTOS                         |

|   | 3    |   |
|---|------|---|
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|   |      |   |
|   | J. / |   |
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| A second to the second of the second | 7    |   |
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| (                  | REGION I           | TECTION AGENCY                      | LAB CODE NO                 | 87687       |
|--------------------|--------------------|-------------------------------------|-----------------------------|-------------|
| ROJECT S. Stice    | et Ashatus st      | ATE MA (WALPOLE)                    | PROJECT #                   |             |
| COLLECTOR J. H.    | ALICPIAN F         | M. M. DUFFEE                        | STATION # []                | 1317        |
| FIELD OBSERVATIONS |                    | ST, RAIN, SNOW, FOG<br>(CIRCLE ONE) | YYMMD<br>DATE BGIIII        | _           |
| AIR TEMP CHST TIE  | DE: HIGH, EBB, LO  | W, FLOOD                            | COLLECTION TIME             | 14175       |
| PARAMETERS (CHECK  | <u></u>            |                                     | SAMPLE TEMP °C              |             |
| Bacti<br>BOD       | N H 3<br>N O 2 + 3 | COD<br>PCB                          | PROBE-D.O. (mg/1)           |             |
| TSS<br>Turb        | TKN<br>T.P         | Other ASBESTOS                      | рн - S.U.                   |             |
| Organics VOA's     | 086                |                                     | CONDUCTIVITY (micromhos/cm) |             |
| METALS             | Total              | Dissolved                           | SALINITY (0/00)             |             |
| C d                | Fe Hg              | Pb Sn                               | TOTAL DEPTH (ft)            |             |
| Cr (T)             | M n N i            | Z n                                 | SAMPLING DEPTH (            |             |
| ^4 A 1 7500:30     | *Unpreserved S     | ample                               |                             | Surface<br> |

| U.S. ENVIRONMENTAL PROTECTION AGENCY - REGIO | N I BOSTON, MASS. |
|--|-------------------|
| NAME OF UNIT AND PORESE                      | DATE YR/MO/DAY    |
| DIVISION OF SURVEILLANCE AND ANALYSIS        | 86-11-17<br>TIME  |
| 60 WESTVIEW STREET                           | 1410              |
| LEXINGTON, MASSACHUSETTS 02173               | STATION NO.       |
| SOURCE OF SAMPLE                             | SAMPLE NO.        |
| 5. Street Ashestos                           | क बि। ज हो ।      |
| Walpote, MA                                  | PRESERVATIVE      |
| LI SAMPLING CREW (FIRST, INITIAL LAST NAME)  | ANOUNT            |
| JOHN J. HRUOPIAN                             | ANALYSIS          |
| MARK J. MUDIFFEE                             | ASSESTOS          |

| JUS. ENVIRONMENTAL PROTECTION AGENCY REGION I  JUSCI S. Street Asbestos STATE MA (WALFOLE)  COLLECTOR T. HALLOG A.   | LAB CODE NO 87088   |
|--|---|
| COLLECTOR J. HASOPIAN & M. MCLI GEE  FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG  PARTIAL CLOUDS  AIR TEMP °C 45° TIDE: HIGH, EBB, LOW, FLOOD  PARAMETER  PA | PROJECT #   |
| PARAMETERS (CHECK APPROPRIATE)  Bacti BOD TSS Turb Organics VOA's  RANGE ASSECTOS  Other ASSECTOS  | COLLECTION TIME [ HI ]  SAMPLE TEMP °C  PROBE-D.O. (mg/l)   PH · S.U. |
| Other  | CONDUCTIVITY  |

|   |      | U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION   | I BOSTON, MASS.                            |
|---|------|---|--|
|   | _    | NAME OF UNIT AND ADDRESS  | DATE - YR/MO/DAY                           |
|   | LABE | DIVISION OF SURVEILLANCE AND ANALYSIS 60 WESTVIEW STREET LEXINGTON, MASSACHUSETTS 02173 | 56-11-17<br>TIME 1415<br>STATION NO.<br>58 |
|   |      | S. Street Aslarstos   | SAMPLE NO. SITIOISIE SUB NO                |
| · | щ    | Walpole, MK   | PRESERVATIVE                               |
|   | MPL  | SAMPLING CREW (FIRST, INITIAL, LAST MAME)  JOHN J. HAU-()PIHM                           | A M OUN T                                  |
|   | SA   | MARK I. MODUFFEE  | ASBESTO'S                                  |

| JUECT Street Ashstass  COLLECTOR J. HAGORIAN &  FIELD OBSERVATIONS CLEAR, OVERCA  (PARTIAL CLOUDS)  AIR TEMP °C 45°FTIDE: HIGH, EBB, LO | TATE LIA (LUAL PO.C)  M. DUFF  AST. RAIN, SNOW, FOG  ICIACLE ONF) | LAB CODE NO STUB PROJECT # STATION # STATION # STATION # STATION # DATE PLOTTED | <b>59</b>  |
|---|---|---|------------|
| PARAMETERS (CHECK APPROPRIATE)  |   | COLLECTION TIME 142   | 31         |
| Bacti NH3   | COD [   | SAMPLE TEMP °C  |            |
| TSS TKN Turb T.P  | PCB<br>X-Ray  | PROBE-0.0. (mg/l)   | - 🗆        |
| Organics O&G  | Other ASBESTOS V  | pH - \$.U.  | . 🗆        |
| METALS Total  | Dissolved   | (micromhos/cm)  | · 🗇        |
| Cd Fe F   | Pb  | SALINITY (0/00)   |            |
| Cr (T) Mn   | Sn Zn   | TOTAL DEPTH (ft)  |            |
|   | Other   | SAMPLING DEPTH (ft) .   |            |
| 'Unpreserved Sar  | mple  | Sul FA  | 7 <u>e</u> |
| Marie Construction and the second consideration of the second construction and the second construction of the second                    | and the second  |   | <b>S</b>   |

| Z A B Z | U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION  NAME OF UNIT AND ADDRESS  DIVISION OF SURVEILLANCE AND ANALYSIS  GO WESTVIEW STREET  LEXINGTON, MASSACHUSETTS 02178  SOURCE OF SAMPLE  A She sto S | I BOSTON, MASS.  DATE YN / MO/DAY  EL3-11-17  TIME  1425  BRATION NO S9  SAMPLE NO. 617101819 |
|---------|---|---|
| SAMPLE  | LUCIPSIE MH  BAUPLING CREW L'IRET, INITIAL, LART HAME?  L'ALRE J. MCDUFFEE  JOHN J. HAGUPIAN  | PRESERVATIVE AMOUNT AMALYSIS AS BESTOS  |

| OLLECTOR M. MCDUFFER & J. AGOR J.   | PROJECT # TISTE   |
|---|---|
| FIELD OF SERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS (CIRCLE ONE)  AIR TEMP °C 45°F TIDE: HIGH, EBB, LOW, FLOOD | OATE CONTIN   |
| PARAMETERS (CHECK APPROPRIATE)  | COLLECTION TIME [4]   |
| Bacti BOD NO2.3 PCB TSS TKN X-Ray Organics O&G Other ASSECTIOS  | PROBE-D.O. (mg/l)   |
| VOA'S   | CONDUCTIVITY (micromhos/cm)                                     |
| Cd Fe Pb Sn Sn Zn Other   | SALINITY (0/00)  TOTAL DEPTH (11)  SAMPLING DEPTH (11)  SURFACE |
| *Unpreserved Sample   | 3557735   |

| U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION 1 BOSTON, MASS.  NAME OF UNIT AND ADDRESS  DIVISION OF SURVEILLANCE AND ANALYSIS  FOR WESTVIEW STREET  LEXINGTON, MASSACHUSETTS 02173  DATE: TR/MO/DAY  RC - 11-17  TIME /4 7.5  STATION NO.  S. (7) | $\mathbf{w}_{i}^{k}(s) = (\log \log k) + \log \log k \log \log k \log$ | and a substitution of the | र प्राप्त शिक्तान र <b>रहत्सुंब</b><br>भ  |
|--|--|---|---|
| SOURCE OF SAMPLE  S. Street Ashistor  SAMPLE NO.  SUB NO.  LLO   Dole, Y-1 A  SAMPLING CREW (FIRST, INITIAL, LAST NAME)  TOMIS J. HUGL-DOING  AMOUNT  AMALYSIS   | LABEL  | U.S. ENVIRONMENTAL PROTECTION AGENCY—REGION I  NAME OF UNIT AND ADDRESS  DIVISION OF SURVEILLANCE AND ANALYSIS  60 WESTVIEW STREET  LEXINGTON, MASSACHUSETTS 02173  SOURCE OF SAMPLE  5. Street Ashiestor  LDL DOLE, MIKE  SAMPLING CREW (FIRST, INITIAL, LAST NAME)  | OATE TRIMO OAY  SIGNATURE  TIME  Y Z S  STATION NO.  SIGN  SAMPLE NO.  CITICIPIO  SUB NO.  PRESERVATIVE  AMOUNT |

Sales Charles Company

TOWN TOWN

| ( " U.S. ENVIHONMENTAL PROTECTION AGENCY REGION!                                   | LAB CODE Nº 87691    |
|--|----------------------|
| PROJECT & Street Asbestos STATE MA (LIFERCIE)                                      | PROJECT #            |
| LLECTOR TO HAGORINA OF M. MCC THE  | STATION # [ ] SIII   |
| FIELD OBSERVATIONS CLEAR, OVERCAST, RAIN, SNOW, FOG  (PARTIAL CLOUDS) (CIRCLE ONE) | YYMMDD               |
| AIR TEMP *C45 FTIDE: HIGH, EBB, LOW, FLOOD   | DATE 1816 ITTI       |
| PARAMETERS (CHECK APPROPRIATE)   | COLLECTION TIME 1430 |
| Bacti NH3 T COO T  | SAMPLE TEMP °C       |
| BOD NO2 · 3 PCB TKN X-Ray  | PROBE-D.O. (mg/l)    |
| Organics O&G Other ASBUSTOS  | pH - S.U.            |
| VOA's  | CONDUCTIVITY         |
| METALS Total Dissolved   | SALINITY (0/00)      |
| Cd Fe Pb Cu Hg Sn Zn Zn  | TOTAL DEPTH (ft)     |
| ( 'Cr (+6)   Ni Other  | SAMPLING DEPTH (ft)  |
| *Unpreserved Sample  | Sulfalb              |

|           | U.S. ENVIRONMENTAL PROTECTION AGENCY - REGION |                    |
|-----------|---|--------------------|
|           | NAME OF UNIT AND ADDRESS                      | DATE . YA / MO/DAY |
| Ū.        |   | 186-11-17          |
| <b>\</b>  | DIVISION OF SURVEILLANCE AND ANALYSIS         | TIME 1430          |
|           | 60 WESTVIEW STREET                            | STATION NO.        |
|           | LEXINGTON, MASSACHUSETTS 02173                | 511                |
|           | 3. Street Asbectos                            | 847 0 7 sub no.    |
|           | Wolpole Mite                                  | PRESERVATIVE       |
| <u></u>   | SAMPLING CREW (PIRST, INITIAL, LAST NAME)     | AMOUNT             |
| <u>\$</u> | JUHN J. HELOPIAN                              | AHALYSIS           |
| Ž,        | MURIL T. MUNUFFER                             | ROBEST US          |

NOTICE: If the film image

### WESTON FINANCIAL SUMMARY SOUTH STREET ASBESTOS SITE WALPCLE, MASSACHUSETTS (COST TO DAI NOVEMBER 19, 1986

Labor Cost:

\$2757.92

Expenses:

\$115.13

Total Man Hours:

78

TAT Members involved:

Cosmo Caterino John Hagopian Mark Hall John Lennon Mark McDuffee

TDD #01-8611-20

PCS #6044