

401031

ADDITIONS/CHANGES TO REGISTRY: SUMMARY OF APPROVALS

SITE NAME: NYS Dept of Health Laboratory DEC I.D. NUMBER 401031

Current Classification 2

Activity:  Add as Class  Reclassify to 4  Delist Category  Modify

Approvals:

Regional Hazardous Waste Engineer Yes  No

NYSDOH Yes  No

DEE Yes  No

Construction Services Yes  No

BHSC: a. Investigation Section Yes  No

b. Site Control Section RAM/Marino Date 11/16/94

c. Director [Signature] Date 11/22/94

DHWR Assistant Director [Signature] Date 11/23/94

ROD RECLASS

Completion Checklist

|  |                                     | Completed By: |                |
|--|-------------------------------------|---------------|----------------|
|  |                                     | Initials      | Date           |
| OWNER NOTIFICATION LETTER?                               | <input checked="" type="checkbox"/> |               | <u>2/7/95</u>  |
| ADJACENT PROPERTY OWNER NOTIFICATION LETTER?             | <input checked="" type="checkbox"/> |               | <u>2/21/95</u> |
| ENB/LEGAL NOTICE SENT?<br>(For Deletion Only)            | <input type="checkbox"/>            |               |                |
| COMMENTS SUMMARIZED/PLACE IN REPOSITORY                  | <input type="checkbox"/>            |               |                |
| FINAL NOTIFICATION SENT TO OWNER?<br>(For Deletion Only) | <input type="checkbox"/>            |               |                |

(For proposed Class 2a sites only) Planned investigative activities & dates: \_\_\_\_\_

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF HAZARDOUS WASTE REMEDIATION  
SITE INVESTIGATION INFORMATION

|   |                                |   |                            |
|---|--------------------------------|---|----------------------------|
| <b>1. SITE NAME</b><br>NYS Dept. of Health Laboratory | <b>2. SITE NO.</b><br>4-01-031 | <b>3. TOWN/CITY/VILLAGE</b><br>Albany (C) | <b>4. COUNTY</b><br>Albany |
|---|--------------------------------|---|----------------------------|

|                       |  |                   |               |
|-----------------------|--|-------------------|---------------|
| <b>5. REGION</b><br>4 | <b>6. CLASSIFICATION:</b><br>CURRENT 2 | <b>PROPOSED</b> 4 | <b>MODIFY</b> |
|-----------------------|--|-------------------|---------------|

**7. LOCATION OF SITE** (Attach U.S.G.S. Topographic Map showing site location)

a. Quadrangle Albany      b. Site Latitude 42° 39'      Longitude 73° 47' 30"      c. Tax Map Number 186.93

d. Site Street Address Axelrod Institute 170 New Scotland Avenue, Albany, New York 12208

**8. BRIEFLY DESCRIBE THE SITE** (Attach site plan showing disposal/sampling location)

The site is located immediately adjacent to the new Dr. David Axelrod Institute in an area that was directly behind the old NYS Department of Health laboratory. Laboratory wastes were disposed in a "pit" in the southwest corner of the property. The area was discovered during the planning for the new lab building. Unknown quantities were disposed during a period beginning with the lab opening in 1914 through 1972.

a. Area 1 acres      b. EPA ID Number NYD14815263

c. Completed ( ) Phase I      ( ) Phase II      ( ) PSA      (.X) RI/FS      ( ) PA/SI      (X) Other -RA

**9. HAZARDOUS WASTES DISPOSED**

Halogenated and Non-Halogenated Solvents (F002, F003, & F005)

**10. ANALYTICAL DATA AVAILABLE**

a. ( ) Air (X) Groundwater ( ) Surface Water ( ) Soil ( ) Waste ( ) EPTox ( ) TCLP

b. Contravention of Standards or Guidance Values  
See Tables 2-1 and 2-2 in each of the quarterly reports.

**11. CONCLUSION**

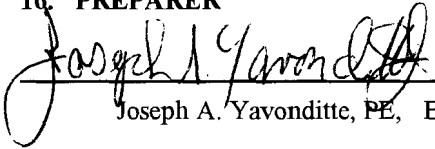
The site remedial measures have been implemented in conformance with the ROD. A geocomposite cap has been placed over the site with a portion of the area also being asphalt paved and used as a parking lot. Three quarterly sampling events have occurred. The reports indicated that levels are dropping as the leaching effect is reduced, although there continue to be elevated levels of some parameters. As the mass under the cap continues to dry, it is expected that levels will also drop.

**12. SITE IMPACT DATA**

|  |   |   |
|--|---|---|
| a. Nearest surface water: Distance > 1 mile                          | Direction east                            | Classification                            |
| b. Nearest Groundwater: Depth 6 ft.                                  | Flow Direction: SE                        | ( ) Sole Source ( ) Primary ( ) Principal |
| c. Nearest Water Supply: Distance none ft                            | Direction:                                | Active ( ) Yes ( ) No                     |
| d. Nearest Building: Distance 20 ft                                  | Direction: N                              | USE: Garage                               |
| e. In State Economic Development Zone? ( ) Yes (X) No                | i. Controlled Site Access ( ) Yes (X) No  |   |
| f. Crops or livestock on site ( ) Yes (X) No                         | j. Exposed Hazardous Waste ( ) Yes (X) No |   |
| g. Documented fish or wildlife mortality ( ) Yes (X) No              | k. HRS Score                              |   |
| h. Impact on special status fish or wildlife resource ( ) Yes (X) No | l. For Class 2: Priority Category         |   |

|  |  |   |
|--|--|---|
| <b>13. SITE OWNER'S NAME</b><br>NYSDOH, Div of Labs & Research | <b>14. ADDRESS</b><br>170 New Scotland Ave, Albany, NY 12209 | <b>15. TELEPHONE NUMBER</b><br>c/o Dr. John Matuszek - (518) 474-0004 |
|--|--|---|

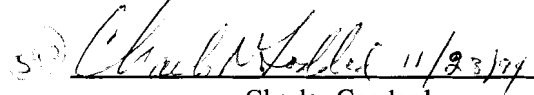
**16. PREPARER**

  
Joseph A. Yavonditte, PE, Env. Engr 2

Bureau of Construction Services, Div of Haz. Waste Rem

Name, Title, Organization

**17. APPROVED**

  
Charles Goodard  
Assistant Director

Division of Hazardous Waste Remediation

Name, Title, Organization



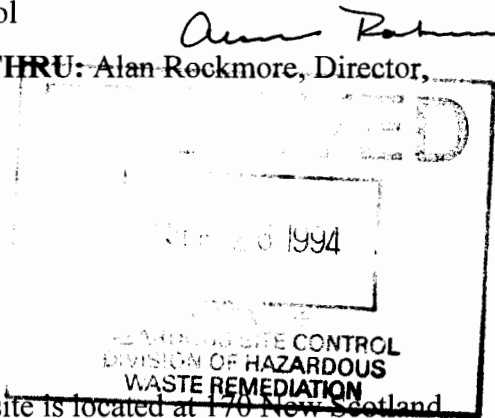
New York State Department of Environmental Conservation

MEMORANDUM

TO: Earl Barcomb, Bureau of Hazardous Site Control

FROM: *RC Knizek* Robert Knizek, Chief, Eastern Field Services; ~~THRU: Alan Rockmore, Director,~~  
Bureau of Construction Services

SUBJECT: Site Reclassification Package  
NYS Department of Health Laboratories  
Site No 4-01-031  
Albany (C), Albany Co.



DATE:

Attached is a reclass package for the subject site. The site is located at 170 New Scotland Ave., Albany immediately behind the newly constructed Dr. David Axelrod Institute. The former building on the site was the original Wadsworth Center for Labs and Research. The area of remediation was used to dispose of laboratory waste from the time of inception until 1972. The Record of Decision called for installation of a geo-composite cap over approximately 16,000 sq. ft. with a portion of the area to be used as a parking lot for the Institute, pumping of the most contaminated groundwater under the cap with off-site treatment, and monitoring of off-site contaminated groundwater migration. Construction was completed in November 1993. Three rounds of sampling have since occurred at the site. The summary reports for these rounds have been attached. The QA/QC data is also available.

Based upon the completion of the remedial work and significant reduction in off-site migration of contaminants which has occurred since, we are recommending that this site be reclassified to a 4

ERM-Northeast has submitted a draft operations and maintenance manual for the site. We are awaiting comments from the O&M Section prior to acting upon this draft.

Enclosed are the (1) the Registry Classification Decision Form; (2) ERM letter of December 20, 1993, transmitting the as-builts; (3) ERM letter of December 15, 1993 which includes the engineer's certification of the remedial work, (4) Tables 2-1 and 2-2 from each of the quarterly sampling reports; (5) the complete sampling reports for each quarter; and, (6) a set of the as-built plans. We have retained the QA/QC documents for the sampling reports.

If you have any questions, please call Joe Yavonditte at 7-9280.

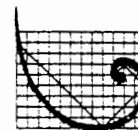
cc: J. Yavonditte  
R. Knizek

*01.10.26*  
*Note: Enclosures 2, 5, and 6 are available for review for the pending classification file for this site in the Bureau of Hazardous Site Control.*

501 New Karner Road  
Suite 7  
Albany, NY 12205  
(518) 452-4291  
(518) 452-4295 (fax)

15 December 1993

Ms. Elizabeth Mahoney  
New York State Department of Health  
P.O. Box 509  
Empire State Plaza  
Albany, N.Y. 12201-0509



**ERM**

Re: Final Engineering Report/Certification  
NYSDOH Restoration Project  
Axeirod Institute  
New Scotland Avenue  
Albany, N.Y.  
NYSDEC I.D. Number 401031  
ERM-NE Project No. 443.002

Dear Ms. Mahoney:

The Agreement for Professional Engineering Services between the New York State Department of Health (NYSDOH) and Environmental Resource Management-Northeast (ERM-NE), dated January 19, 1993 requires that the Engineer submit a final engineering report together with the Engineer's certification to the NYSDEC that the construction of the Remedial Program for the NYSDOH Restoration Site (the "Site") was completed in accordance with the approved Remedial Design. The Report is to reflect all changes made during the execution of the Work performed pursuant to the Remediation Contract for the "Site". The final engineering report and certification are to be submitted within 30 days or such time as agreed upon by the parties after completion of the Remediation Phase of the above referenced project. Barbella Environmental Technologies, Inc. (BET), completed construction of the Remedial Design and demobilization of the site on Friday, November 19, 1993.

The Order on Consent between the NYSDOH and the NYSDEC, Index Number A4-0304-93-07 for the Wadsworth Laboratory Restoration Site (Site No. 401031), requires that the final engineering report/certification must be submitted to the NYSDEC within 30 days or such times as agreed upon by the parties, after completion of the Remedial Program.

This letter ~~is being submitted to the~~ NYSDOH to fulfill the requirements of ~~both the final engineering report and the~~ Engineer's certification.

15 December 1993  
Ms. Beth Mahoney  
ERM-NE Project No. 443.002  
Page 2

ERM-NE hereby certifies that the construction of the Remedial Program for the Axelrod Restoration Site (formerly the Wadsworth Laboratory Site) has been completed in accordance with the approved Remedial Design.



Any minor (non-process) changes made during construction (e.g., modifications to parking lot layout and low viscosity asphalt pad dimensions) will be shown on the as-built drawings currently being prepared by ERM-NE. The final as-built drawings will be submitted to BET for their engineering stamp and will then be submitted to the NYSDOH for forwarding to the NYSDEC within the 30 day time frame established by the Order on Consent referenced above.

Should you have any questions or comments regarding ERM-NE's certification or require additional information, please feel free to contact Dave Myers, Scott Ranger or me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Brian J. Jacot", is written over a horizontal line.

Brian J. Jacot, P.E.  
Principal

BJJ/dwm

cc: A.Ledins  
Scott Ranger  
Dave Myers



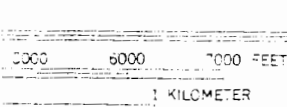
NYS DOH Labs Site No 401031

BOUNDARIES:

State.....  
 County.....  
 Town or City.....  
 Incorporated Village.....

ROADS:

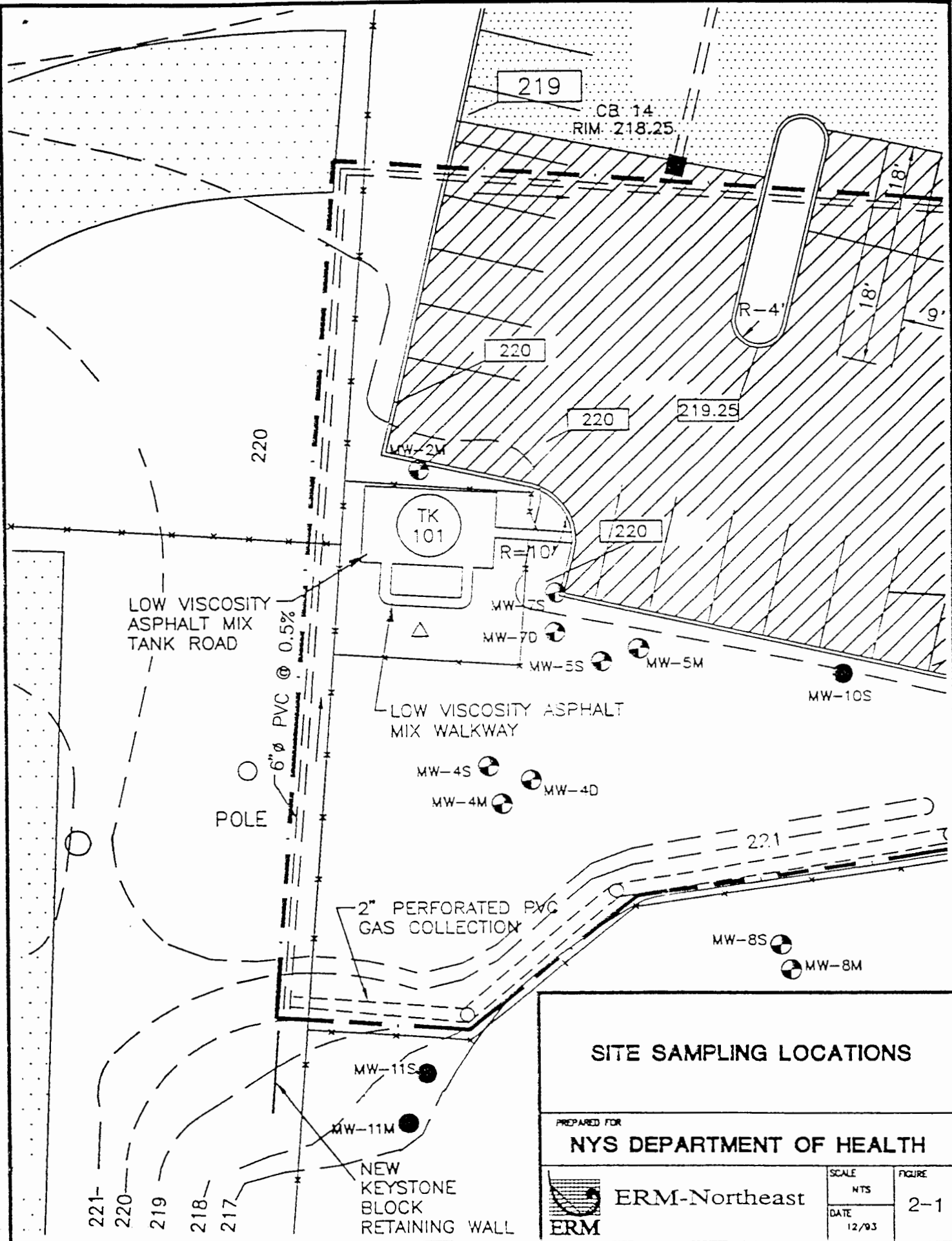
Touring Route markers.....



INDEX TO  
 1:9600 (1" = 300')  
 MAP COVERAGE

in datum.

EAST GREEN



**SITE SAMPLING LOCATIONS**

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PREPARED FOR  
**NYS DEPARTMENT OF HEALTH**

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|                      |               |                      |
|----------------------|---------------|----------------------|
| <b>ERM-Northeast</b> | SCALE<br>NTS  | FIGURE<br><b>2-1</b> |
|                      | DATE<br>12/03 |                      |

TABLE 2-1

SUMMARY OF VALIDATED VOLATILE ORGANIC COMPOUNDS AND PHYSICAL PARAMETERS

|                            | MW-4S   | MW-4M   | MW-4D  | MW-5S  | MW-12S | MW-5M  | MW-8S  | MW-8M  | TRIP BLANK |
|----------------------------|---------|---------|--------|--------|--------|--------|--------|--------|------------|
| Methylene Chloride         | 130000B | 5200BJD | 10U    | 38U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Acetone                    | 65000   | 530EJ   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| 1,2-Dichloroethene         | 100000U | 17I     | 10U    | 10U    | 10U    | 10U    | 2J     | 10U    | 10U        |
| Chloroform                 | 3600J   | 3400J   | 10U    | 10U    | 10U    | 2J     | 10U    | 10U    | 10U        |
| 1,2-Dichloroethane         | 100000U | 25J     | 10U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Trichloroethene            | 5200J   | 340JD   | 10U    | 4J     | 10U    | 10U    | 6J     | 10U    | 10U        |
| Benzene                    | 10000   | 890JD   | 10U    | 5J     | 10U    | 10U    | 10U    | 10U    | 10U        |
| 2-Butanone                 | 100000U | 10UJ    | 610JE  | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| 4-Methyl-2-pentanone       | 100000U | 15J     | 10U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Toluene                    | 30000   | 570JD   | 10U    | 23J    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Ethyl Benzene              | 8600J   | 280JD   | 10U    | 25J    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Total Xylenes              | 68000   | 820JD   | 10U    | 110J   | 10U    | 10U    | 10U    | 10U    | 10U        |
| Dichlorodifluoromethane    | 5000JN  | 30JN    | 7JN    | ND     | ND     | ND     | ND     | ND     | ND         |
| Tetrahydrofuran            | ND      | 22JN    | 180JN  | 15JN   | 23JN   | ND     | ND     | ND     | ND         |
| Diisopropylether           | ND      | 170JN   | ND     | 81JN   | 54JN   | ND     | 8JN    | ND     | ND         |
| Ethylether                 | ND      | ND      | ND     | 280JN  | 190JN  | ND     | 61J    | ND     | ND         |
| Total Unknown Oxy. Compds. | ND      | 12J     | ND     | 61J    | 53J    | ND     | 14J    | ND     | ND         |
| Total Unknowns             | ND      | 5J      | ND     | ND     | ND     | ND     | ND     | ND     | ND         |
| <b>Ground Water</b>        |         |         |        |        |        |        |        |        |            |
| <b>Field Measurements</b>  |         |         |        |        |        |        |        |        |            |
| Temperature(Celsius)       | 7.5     | 9.9     | 9.8    | 8.8    | 8.8    | 10.1   | 9.0    | 9.0    |            |
| Conductivity(unhos/cm)     | 580     | 835     | 448    | 1600   | 1600   | 550    | 1670   | 560    |            |
| pH                         | 6.55    | 7.50    | 8.01   | 6.99   | 6.99   | 7.90   | 6.92   | 7.94   |            |
| Ground Water Elevation(ft) | 211.96  | 209.97  | 202.32 | 212.10 | 212.10 | 207.98 | 211.99 | 209.41 |            |

Notes: Concentrations are in micrograms per liter (µg/l)

U = Compound not detected. Numeric value is sample specific quantitation limit for that compound.

J = Estimated value due to data validation requirements, concentration is below CRQL or compound is a TIC.

ND = TIC not detected in that sample.

B = Compound detected in associated method blank.

D = Result taken from secondary dilution analysis.

E = Result is over instrument's linear range.

N = Identified TIC.

JAN '94

Regent 2/3/94 March 17, 1994



TABLE 2-2

## SUMMARY OF VALIDATED SEMI-VOLATILE ORGANIC COMPOUNDS

|                       | MW-4S  | MW-4M | MW-4D | MW-5S | MW-12S | MW-5M | MW-8S | MW-8M |
|-----------------------|--------|-------|-------|-------|--------|-------|-------|-------|
| Phenol                | 170    | 3J    | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 4-Methylphenol        | 160    | 1J    | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Naphthalene           | 200    | 1J    | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 2-Methylphenol        | 43J    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 2,4-Dimethylphenol    | 27J    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Acenaphthene          | 3J     | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Pyrene                | 4BJ    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Cyclohexanone         | ND     | 14JN  | 65JN  | ND    | ND     | ND    | ND    | ND    |
| Sulfur                | ND     | 14JN  | ND    | ND    | ND     | ND    | ND    | ND    |
| Urea                  | 220JN  | ND    | ND    | 4JN   | 8JN    | ND    | ND    | ND    |
| Isoquinoline          | 85JN   | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Pyridine              | 13000J | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Total Unknown         | 315J   | 12J   | ND    | 12J   | 21J    | ND    | ND    | ND    |
| (Oxygenated Compounds |        |       |       |       |        |       |       |       |
| Total Unknown Alcohol | 680J   | ND    | 20J   | ND    | ND     | ND    | ND    | ND    |
| Total Unknowns        | 162J   | 3J    | ND    | 19J   | 6J     | 8J    | 5J    | ND    |
| Isomer Dimethyl       | ND     | ND    | ND    | 4J    | 11J    | ND    | 2J    | ND    |
| Naphthalene           |        |       |       |       |        |       |       |       |
| Total Subs. Aromatics | 110J   | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Isomer Dimethyl       | 40J    | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Pyridine              |        |       |       |       |        |       |       |       |
| Total Unknown         | 78J    | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Aromatics             |        |       |       |       |        |       |       |       |
| Oxygenated Aromatic   | 45J    | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Compds.               |        |       |       |       |        |       |       |       |
| Total Unknown         | 90J    | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Carboxylic Acid       |        |       |       |       |        |       |       |       |

Notes: Concentrations are in micrograms per liter ( $\mu\text{g}/\text{l}$ )

U = Compound not detected. Numeric value is sample specific quantitation limit for that compound.

J = Estimated value due to data validation requirements, concentration is below CRQL or compound is a TIC.

ND = TIC not detected in that sample.

B = Compound detected in associated method blank.

N = Identified TIC.

Jan '94

Page 8  
1/10/94

TABLE 2-1  
SUMMARY OF VALIDATED VOLATILE ORGANIC COMPOUNDS AND PHYSICAL PARAMETERS

|                             | MW-4S   | MW-4M  | MW-4D  | MW-5S  | MW-12S | MW-5M  | MW-8S  | MW-8M  | TRIP BLANK |
|-----------------------------|---------|--------|--------|--------|--------|--------|--------|--------|------------|
| Methylene Chloride          | 89000BJ | 490BEJ | 190U   | 17U    | 12U    | 10U    | 12U    | 10U    | 7BJ        |
| Acetone                     | 98000   | 130U   | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| 1,2-Dichloroethene          | 10000U  | 9J     | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Chloroform                  | 10000J  | 360    | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Trichloroethene             | 5800J   | 69     | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Benzene                     | 15000   | 200B   | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| 2-Butanone                  | 10000U  | 10U    | 1100   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Toluene                     | 26000   | 77     | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Ethyl Benzene               | 15000   | 43     | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| Total Xylenes               | 59000   | 110    | 100U   | 10U    | 10U    | 10U    | 10U    | 10U    | 10U        |
| 1,4-Dioxane                 | ND      | ND     | ND     | 54JN   | 60JN   | ND     | ND     | ND     | ND         |
| Diisopropylether            | ND      | 50JN   | ND     | 68JN   | 73JN   | ND     | ND     | ND     | ND         |
| Ethylether                  | 8000JN  | ND     | ND     | 200JN  | 220JN  | ND     | 14JN   | ND     | ND         |
| Total Unknown Oxy. Compds.  | ND      | ND     | 11J    | ND     | ND     | ND     | ND     | ND     | ND         |
| Unknown Cyclic Compound     | 72000J  | ND     | ND     | ND     | ND     | ND     | ND     | ND     | ND         |
| <b>Ground Water Field</b>   |         |        |        |        |        |        |        |        |            |
| <b>Measurements</b>         |         |        |        |        |        |        |        |        |            |
| Temperature (Celsius)       | 8.6     | 9.6    | 10.8   | 8.8    | 8.8    | 10.0   | 8.5    | 8.9    |            |
| Conductivity (umhos/cm)     | 1820    | 1237   | 451    | 1600   | 1600   | 684    | 512    | 490    |            |
| pH                          | 7.23    | 7.36   | 8.32   | 7.95   | 7.95   | 7.36   | 7.09   | 7.75   |            |
| Ground Water Elevation (ft) | 211.30  | 211.60 | 202.60 | 213.06 | 213.06 | 208.77 | 211.56 | 210.29 |            |

Notes: Concentrations are in micrograms per liter (µg/l)  
 U = Compound not detected. Numeric value is sample specific quantitation limit for that compound.  
 J = Estimated value due to data validation requirements, concentration is below CRQL or compound is a TIC.  
 ND = TIC not detected in that sample.  
 B = Compound detected in associated method blank.  
 E = Result is over instrument's linear range.  
 N = Identified TIC.

April '94

Robert P. Smith June 22, 1994

TABLE 2-2  
SUMMARY OF VALIDATED SEMI-VOLATILE ORGANIC COMPOUNDS

|                                       | MW-4S  | MW-4M | MW-4D | MW-5S | MW-12S | MW-5M | MW-8S | MW-8M |
|---------------------------------------|--------|-------|-------|-------|--------|-------|-------|-------|
| Phenol                                | 180    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 4-Methylphenol                        | 92     | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Naphthalene                           | 200    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 2,4-Dimethylphenol                    | 43     | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Triphenyl Phosphine oxide             | ND     | 3JN   | ND    | ND    | ND     | ND    | ND    | ND    |
| Total Unknown Phthalates              | ND     | 3J    | ND    | 2J    | ND     | ND    | ND    | ND    |
| Total Unknown Hydroxy<br>Quinolines   | 59J    | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Pyridine                              | 4000JN | ND    | ND    | ND    | 200JN  | ND    | ND    | ND    |
| Total Unknown Oxygenated<br>Compounds | 9J     | ND    | 8J    | 2J    | ND     | ND    | ND    | ND    |
| Bicyclo[2.2.1]heptan-2-one            | 20JN   | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Total Unknowns                        | 835J   | ND    | ND    | 6J    | 6J     | ND    | ND    | ND    |
| Isomer Dimethyl<br>Naphthalene        | 30J    | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Paraldehyde                           | ND     | ND    | ND    | ND    | 3JN    | ND    | ND    | ND    |
| Total Unknown Aromatics               | 9J     | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Oxygenated Aromatic<br>Comps.         | 20J    | ND    | ND    | ND    | ND     | ND    | ND    | ND    |

Notes: Concentrations are in micrograms per liter ( $\mu\text{g}/\text{l}$ )

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J = Estimated value due to data validation requirements, concentration is below CRQL or compound is a TIC.

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Apr. 1 '94

*Handwritten signature/initials*

Table 2-1  
SUMMARY OF VALIDATED VOLATILE ORGANIC COMPOUNDS AND PHYSICAL PARAMETERS

|                             | MW-4S   | MW-4M  | MW-4D  | MW-5S  | MW-12S | MW-5M  | MW-8S  | MW-8M  | TRIP<br>BLANK |
|-----------------------------|---------|--------|--------|--------|--------|--------|--------|--------|---------------|
| Methylene Chloride          | 16000BJ | 12U    | 50U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10B           |
| Acetone                     | 5000J   | 12     | 50U    | 25     | 18     | 10U    | 10U    | 10U    | 10U           |
| Chloroform                  | 3000J   | 6J     | 11J    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U           |
| Trichloroethene             | 10000U  | 19     | 50U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U           |
| Benzene                     | 12000J  | 120    | 50U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U           |
| 2-Butanone                  | 10000U  | 10U    | 830    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U           |
| Toluene                     | 27000J  | 19     | 50U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U           |
| Ethyl Benzene               | 9300J   | 11     | 50U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U           |
| Total Xylenes               | 61000J  | 57     | 50U    | 10U    | 10U    | 10U    | 10U    | 10U    | 10U           |
| 1,4-Dioxane                 | ND      | ND     | ND     | 40JN   | 40JN   | ND     | ND     | ND     | ND            |
| Diisopropylether            | ND      | 40JN   | ND     | 60JN   | 60JN   | ND     | ND     | ND     | ND            |
| Ethylether                  | ND      | 60JN   | ND     | 200JN  | 200JN  | ND     | 20JN   | ND     | ND            |
| Unknown                     | ND      | ND     | 100J   | ND     | ND     | ND     | ND     | ND     | ND            |
| <b>Ground Water Field</b>   |         |        |        |        |        |        |        |        |               |
| <b>Measurements</b>         |         |        |        |        |        |        |        |        |               |
| Temperature (celsius)       | 16.3    | 15.2   | 17.4   | 18.1   | 18.1   | 18.3   | 18.3   | 18.3   | 16.2          |
| Conductivity *umhos/cm      | 2280    | 868    | 388    | 1163   | 1163   | 282    | 282    | 1380   | 516           |
| pH                          | 6.42    | 7.11   | 7.82   | 6.73   | 6.73   | 7.56   | 7.56   | 6.73   | 7.81          |
| Ground Water Elevation (ft) | 210.02  | 210.63 | 201.41 | 212.02 | 212.02 | 207.60 | 207.60 | 211.30 | 209.75        |

Notes: Concentrations are in micrograms per liter ( $\mu\text{g}/\ell$ )  
 U = Compound not detected. Numeric value is sample specific quantitation limit for that compound.  
 J = Estimated value due to data validation requirements, concentration is below CRQL or compound is a TIC.  
 ND = TIC not detected in that sample.  
 B = Compound detected in associated method blank.  
 N = Identified TIC.

July '94

Quality Control Samples 2-1, 10000

Table 2-2  
SUMMARY OF VALIDATED SEMI-VOLATILE ORGANIC COMPOUNDS

|                         | MW-4S  | MW-4M | MW-4D | MW-5S | MW-12S | MW-5M | MW-8S | MW-8M |
|-------------------------|--------|-------|-------|-------|--------|-------|-------|-------|
| Phenol                  | 510BJ  | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 2-Methylphenol          | 73J    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Naphthalene             | 280    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 2,4-Dimethylphenol      | 150    | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| 4-Methylphenol          | 230J   | 10U   | 10U   | 10U   | 10U    | 10U   | 10U   | 10U   |
| Di-n-butylphthalate     | 100U   | 10U   | 10U   | 10U   | 10U    | 10U   | 1J    | 10U   |
| Hexadecanoic Acid       | ND     | ND    | ND    | 2JN   | ND     | ND    | 2JN   | ND    |
| Cyclohexanone           | ND     | ND    | 2JN   | 7JN   | 9JN    | ND    | ND    | ND    |
| Sulfur                  | ND     | 10JN  | ND    | ND    | ND     | ND    | ND    | ND    |
| Pyridine                | 4000JN | ND    | ND    | ND    | ND     | ND    | ND    | 2JN   |
| Total Unknown           | 600J   | 2J    | 4J    | 6J    | 23J    | ND    | ND    | ND    |
| Oxygenated<br>Compounds |        |       |       |       |        |       |       |       |
| Urea                    | ND     | 3JN   | ND    | 3JN   | 5JN    | ND    | ND    | ND    |
| Total Unknowns          | 1300J  | ND    | 8J    | 18J   | 18J    | 6J    | 15J   | 3J    |
| Benzoic Acid            | 460JN  | ND    | 1JN   | ND    | ND     | ND    | ND    | ND    |
| 1-Phenylethanol         | 200JN  | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Total Unknown           | 500J   | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Ketones                 |        |       |       |       |        |       |       |       |
| Total Unknown           | 700J   | ND    | ND    | ND    | ND     | ND    | ND    | ND    |
| Aromatics               |        |       |       |       |        |       |       |       |
| Total Unknown           | 100J   | ND    | 4J    | ND    | ND     | ND    | ND    | ND    |
| Carboxylic Acids        |        |       |       |       |        |       |       |       |

Notes: Concentrations are in micrograms per liter ( $\mu\text{g}/\ell$ )

U = Compound not detected. Numeric value is sample specific quantitation limit for that compound.

J = Estimated value due to data validation requirements, concentration is below CRQL or compound is a TIC.

ND = TIC not detected in that sample.

N = Identified TIC.

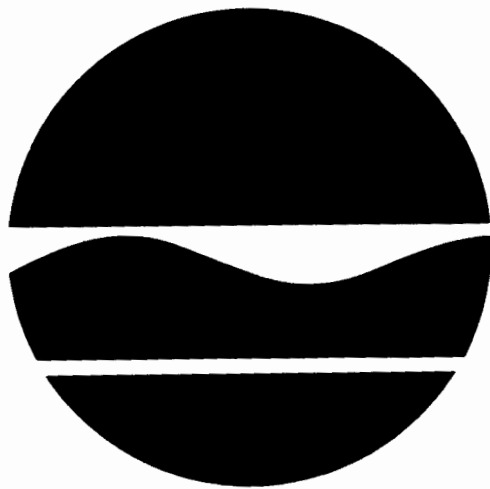
July '94

Page X to the 13th page 21, 10/23

# **New Scotland Avenue Site**

I.D. Number 401031

# **Record of Decision**



**March 1992**

**PREPARED BY:  
NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF HAZARDOUS WASTE REMEDIATION**

## DECLARATION FOR THE RECORD OF DECISION

### SITE NAME AND LOCATION

New Scotland Avenue Wadsworth Laboratory Site  
City of Albany  
Albany County, New York  
Site Code: 401031

### STATEMENT OF PURPOSE

This document describes the selected remedial action for the New Scotland Avenue Site, developed in accordance with the New York State Environmental Conservation Law (ECL), and consistent with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA). Exhibit A identifies the documents that comprise the Administrative Record for the site. The documents in the Administrative Record are the basis for the selection of the remedial action.

### ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this Record of Decision, present a potential threat to public health, welfare and the environment.

### STATEMENT OF BASIS

This decision is based upon the administrative record for the New Scotland Avenue Site. A copy of the documents in the record is available for public review and/or copying at the following locations:

New York State Department of Environmental Conservation  
2176 Guilderland Avenue  
Schenectady, New York  
(518)382-0680  
Hours: 8:30 AM - 4:45 PM Monday - Friday

Albany Public Library  
Main Branch  
161 Washington Avenue  
Albany, New York 12210  
(518)449-3380

The following documents are the primary components of the administrative record:

- A. "1990 Remedial Investigation Report NYSDOH WCLR Albany New York", prepared by: ERM-Northeast, Inc., March 4, 1991.
- B. "Phase II Remedial Investigation Report NYSDOH WCLR Albany, New York", prepared by ERM-Northeast, Inc., August 20, 1991.
- C. "Draft Feasibility Study Wadsworth Center for Laboratories and Research", prepared by ERM-Northeast, Inc., August 22, 1991.

**Description of Selected Remedy**

The selected remedy for the New Scotland Avenue Site consists of covering the site with a clay or synthetic cap, groundwater treatment and institutional controls. The cap will cover areas of both volatile and semi-volatile contamination, a total area of 16,000 sqft. The cap will consist of a gravel venting layer, clay or synthetic impermeable layer topped with either asphalt or a vegetative cover. In addition to the cap, the most contaminated area of groundwater will be treated utilizing a pump and treat method.

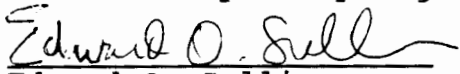
The site will be fenced and will have deed restrictions imposed to prevent future uses of the property that would interfere with the remedial measures. Long-term monitoring will be conducted to assess the results of the remediation.

If the ability to pump and treat the groundwater is found to be an infeasible solution to treating the groundwater, processes such as vapor extraction or other methods that may be developed in the future will be evaluated as possible methods for mitigating the volatile organic contamination at the site.

**DECLARATION**

The selected remedy is designed to be protective of human health and the environment, is designed to comply with State regulations and standards to the extent practicable and is cost effective. This remedy satisfies the Department's preference for action that reduces the toxicity and mobility of hazardous substances, pollutants or contaminants as the principal goal.

3-26-92  
Date

  
Edward O. Sullivan  
Deputy Commissioner  
Office of Environmental Remediation



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1. Site Location Map
2. Soil Contaminated with Volatiles
3. Soil Contaminated with Semi-Volatiles
4. Groundwater Contamination Plume
5. Area of Cap

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1. List of Major Contaminants

**Exhibits**

- A. Administrative Record
- B. Responsiveness Summary

RECORD OF DECISION  
NEW SCOTLAND AVENUE SITE  
SITE # 401031

**I. SITE LOCATION AND DESCRIPTION**

The New Scotland Avenue, Wadsworth Laboratory site is located in the City of Albany, south of New Scotland Avenue and behind the Wadsworth Laboratory building. The Christian Brothers Academy (CBA) lies to the south of the site and the New Scotland Avenue Armory borders the west side. The site is less than one acre in size. The New York State Department of Health (NYSDOH) owns and operates the Wadsworth Laboratory Buildings and the 5 acre parcel of which the site is part. The site is currently a vacant lot. The surrounding area is a mix of residential and institutional facilities. Figure 1 indicates the site location with reference to the City of Albany.

**II. Site History**

The area of concern was previously owned by Albany County and utilized by the Albany County Almshouse during the 1800's until 1926. In 1926, the land was sold to New York State. The Wadsworth laboratory buildings were built in the 1930's. From 1940 to 1976 waste solvents used by the laboratory were burned in or poured into a low area (the "pit") behind the laboratory buildings. 100-200 gallons of solvents per year were disposed of in this manner. The solvents consisted of many typical lab solvents including: xylol, ethanol, methyl ethyl ketone, petroleum ether, turpentine, mineral spirits and chlorinated solvents.

An interesting, but complicating factor, is the presence of a paupers cemetery in this area which dates from the 1800's to 1926. Burials occurred during the occupation of the Almshouse. Some graves near but not on-site have been previously exhumed and archived or reinterred. It is highly probable that there are graves throughout the site. The New York State Office of Parks and Recreation has determined that the cemetery is of historical significance, thus, any remedial action taken at the site would require that either, the graves not be disturbed, or, that they be excavated by an archaeologist and archived or reinterred elsewhere.

Past investigations at the site included Phase I and Phase II investigations performed by the NYSDEC which confirmed the disposal and continued presence of contamination at the site. It was determined that the site may pose a substantial health or environmental risk, thus requiring the NYSDOH to perform an

RI/FS to delineate the type and extent of contamination at the site, and to determine the most appropriate remedial action to be taken.

### III. Current Status

The remedial investigation determined the type of contaminants present in the soil and groundwater and the vertical and horizontal extent of contamination. Also included as part of the investigation was a risk assessment which determined the present and future risks associated with the site. The major contaminants found in the soil include: acetone, chloroform, benzene, toluene, xylene and various hydrocarbons. The major contaminants found in the groundwater include: chloroform, acetone, toluene, benzene, xylene, ethylbenzene and methylene chloride.

Table 1 indicates the type, media and maximum volatile organic contamination found at the site. Figures 2 and 3 indicate the extent of soil contamination. Figure 4 indicates the maximum areal extent and direction of contaminant migration found in the groundwater. All groundwater contaminants are within this plume. The direction of groundwater flow is to the southeast.

Access to the site is presently limited by a fence which surrounds the larger construction site. Groundwater is not currently being utilized for drinking water or for any other public or private use.

### Summary of Site Risks

Part of the RI/FS process included the evaluation of risks presented to human health and the environment by the site as it now exists. The results of this baseline risk assessment are used to help identify applicable remedial alternatives and to select a remedy. The components of the baseline risk assessment include:

- identification of site related chemicals and media of concern
- evaluation of the toxicity of chemicals of concern
- identification of exposure routes and pathways
- evaluation of the impacts of the site upon the environment

Exposure routes are the mechanism by which contaminants

enter the body (e.g., inhalation, ingestion, absorption). Exposure pathways are the environmental media (e.g., soil, groundwater, air, etc.) through which contaminants are carried.

The full risk assessment may be found in the RI report dated March 4, 1991. The assessment used the following substances as contaminants of concern in groundwater: chloroform, acetone, ethylbenzene, benzene, methylene chloride, tetrachloroethane, trichloroethene, and carbon tetrachloride. Substances of concern utilized for the risk due to soil were: naphthalene, xylenes, barium, lead, chloroform and various PAHs. The risks were separated into present and future risks at the site.

The risk assessment for the site indicates that the most significant exposure mechanisms are the ingestion or inhalation of contaminated soil by construction and office workers and contact or ingestion of groundwater. Currently, as the site is undisturbed, and there are no groundwater receptors, the risk to people in the area is below the de minimis risk for carcinogens and chronic exposure to non-carcinogens. Therefore, no unacceptable risks to nearby office workers or residents are expected to result from contamination present in site soils or groundwater.

Although it is expected that the future use of the site will be partially a parking lot, it was determined that there is still a potential for a future health risk to construction workers via contact with polycyclic aromatic hydrocarbons (PAHs) and fugitive dusts in site soils. Also, there is a future potential for ingestion of groundwater. The ingestion of groundwater would result in unacceptable chronic health effects and carcinogenic risks due to the presence of several volatile organic compounds.

Therefore, action must be taken at the site to reduce or, if possible, to eliminate the health risk.

It was determined that there is no adverse impacts to ecological resources due to the presence of contamination at the site.

#### **IV. Enforcement Status**

The New York State Department of Health has been a cooperative participant during the prior investigations. Therefore, no enforcement action has been brought against them.

## **V. Goals for the Remedial Action**

Remedial action is proposed for the purpose of reducing the environmental or human health risk by preventing the ingestion or inhalation of contaminated soil, reducing the leaching of contaminants from the soil into the groundwater and containing the migration of contaminated groundwater. Action will also include continued monitoring of the groundwater and institutional controls relating to use of the contaminated property.

## **VI. Summary of the Evaluation of the Remedial Alternatives**

### **Evaluation Criteria**

The Feasibility study requires that various alternatives be screened and possibly selected for further evaluation. This screening process and its results are detailed in the Final draft Feasibility Study dated August, 1991 (revised 11/4/91). After initial screening, the following criteria and consistency with the remedial goals were used to further evaluate the selected alternatives.

#### **1.) Overall Protection of Human Health and the Environment**

The various remedial alternatives were evaluated as to whether they are able to provide adequate protection of human health and the environment, once the remedial alternative has been implemented.

#### **2.) Compliance with NYS Standards, Criteria and Guidance Values (SCG's)**

The alternatives were evaluated as to their ability to achieve the desired clean-up levels and meet all applicable standards. The target cleanup goals for groundwater are the NYS groundwater standards.

#### **3.) Reduction in Toxicity, Mobility or Volume of Contaminants**

The alternatives were evaluated as to their ability to reduce the toxicity, mobility or volume of contaminants on site.

#### **4.) Implementability**

The alternatives were evaluated as to the

ease or difficulty in implementation. These factors include availability of equipment and materials, permit requirements, complexity, maintenance etc.

**5.) Short-term Impacts and Effectiveness**

The potential short-term adverse impacts of the remedial action upon the community, the workers, and the environment is evaluated. The length of time needed to achieve the remedial objectives is estimated and compared with other alternatives.

**6.) Long-term Effectiveness and Permanence**

If wastes or residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: 1) the magnitude and nature of the risks presented by the remaining wastes; 2) the adequacy of the controls intended to limit the risk to protective levels; and 3) the reliability of these controls.

**7.) Estimated Total Cost**

This includes the estimated capital and operation and maintenance costs of the remedy and the net worth cost of the alternative.

Summary of Alternatives

The Feasibility Study describes in detail the various alternatives selected for final consideration. Below is a brief summary of each.

1. **No-Action** would include institutional controls at a minimal cost. Although easily implemented, this action would not attain the SCG's, nor will it reduce the toxicity at the site. This course of action would not be protective of human health and is not recommended.

2. **Containment** consists of capping the contaminated area (16,000 sqft.) with a clay or synthetic cap. This will prevent the contaminated soil from being blown into the air and will prevent the infiltration of rainwater into the soil, thus reducing the leaching of contaminants from the soil into the groundwater. No active groundwater treatment is proposed under this option. This proposal will be highly effective in reducing the risks associated with the contaminated soil.  
Cost: \$218,000

3. **Vitrification** consists of immobilizing the contaminants through solidification. The soil is melted at very high temperatures and when cooled forms a solid glass-like block. This option will not actively treat the groundwater. To perform this option, the graves will need to be excavated prior to remediation. This technology is difficult to implement and the technology is still new. EPA has recently removed this option from consideration at other Federal projects due to technical problems. This action will not meet SCG's for groundwater. Although it will reduce mobility in the soil, it will not reduce the volume of the contaminated soil. Cost: \$1,800,000.

4. **Containment with Groundwater Treatment** is similar to #2 with the exception that in addition, the contaminated groundwater will be collected and treated. This will reduce the toxicity and volume of contaminated groundwater and reduce the extent of highly contaminated water. The option will satisfy both the long and short term effectiveness. The goal will be to reduce the level of groundwater contamination and limit its migration. Cost: \$415,000.

5. **Complete Source Removal** will require the excavation and incineration of all 1200 cyds of contaminated soil. The area will then be backfilled with clean fill. The graves would require excavation prior to this action which significantly increases the cost and implementation of this option. The groundwater beneath the site would not be actively treated although removal of soil will reduce the continued migration of contaminants from the soil into the groundwater. Cost: \$3,573,000

6. **Selective Source Removal** will require the removal of 85 cyds of volatile contaminated soil in the area of the pit. This soil is the most highly contaminated area of the site and would significantly reduce the risk associated with the pit area. Continued groundwater contamination due to this area would be eliminated. A number of graves would have to be excavated prior to remediation which would greatly complicate the effort and significantly increase the cost. This alternative would include capping the remaining areas of the site which contain PAHs. Cost: \$608,000.

All alternatives would include longterm groundwater monitoring of the site, and institutional controls.

## **VII. Citizen Participation**

To inform the local community and provide a mechanism for citizens to make the Department aware of their concerns, a citizen participation program has been implemented. In accordance with a Citizen Participation (CP) plan developed for

the project, the following goals have been accomplished:

- information repositories have been established;
- documents and reports associated with the project have been placed into the repositories;
- a contact list of interested parties (e.g., media, public, interest groups, government agencies, etc.) has been created;
- public notice of the completion of the RI/FS and the proposed remedy was issued in local newspapers;
- a public comment period was established and a public meeting was held on February 12, 1992 in Albany to describe the proposed remedy. The transcript of the meeting is part of the Administrative Record for the project and is in the document repositories for public inspection.

A summary of the comments received during the public meeting and the public comment period are included in Exhibit B along with the Department's responses to the comments. No significant comments were received.

#### **VIII. Summary of the Government's Decision**

The alternative selected by the Department is #4, Containment with groundwater treatment. This alternative ranked highest in the evaluation of alternatives performed during the Feasibility Study. This option provides for capping the site with a synthetic or clay cap covered by asphalt or a vegetative layer. The cap would moderate further contamination of the groundwater by preventing infiltration of rainwater into the soil, thus reducing the leaching of contaminants from the soil into the groundwater. The cap would also prevent the blowing of surficial soil into the air or the possibility of ingestion or inhalation of soil by workers in the area.

A pump test was performed during the Feasibility Study which indicated that in areas 10-35 feet below grade that the soils are tightly packed and are not conducive to groundwater extraction. However, above 10 feet there is a layer of fill which is more permeable thus, groundwater treatment of shallow groundwater (4-10 feet) would be included to prevent further migration of heavily contaminated water. Treatment would be accomplished, if feasible, by pumping from shallow wells into a containment vessel and sending the water to either a municipal waste treatment plant or POTW, or treating the water on-site by filtering it through a carbon treatment unit prior to disposal. Details and evaluation of this removal and treatment method



will be performed during the design phase.

Institutional controls will be utilized in the area of the cap ( see area outlined in Figure 5). The cap will cover portions of both NYSDOH and CBA property. Institutional controls will also be utilized in the area of groundwater contamination beneath both NYSDOH and CBA property. (See Figure 4 for areal extent of contamination).

Institutional controls associated with the groundwater contamination may be removed or reduced in areal extent at such time as it is determined, by the NYSDEC, that the groundwater contamination is below groundwater standards.

Maintenance of the cap and monitoring wells will be the sole responsibility of the NYSDOH, both on NYSDOH and CBA property. Maintenance of the wells will be required until groundwater monitoring is no longer necessary.

The cap will require maintenance for 30 years. Beyond this time it will be determined through the periodic (every 5 years) review of the site conditions what course of action will be necessary.

The cemetery is a complicating factor at this site which significantly affects most of the other alternatives. The preferred alternative does not significantly disturb the graves and maintains compliance with the State requirements for historical sites. This option also greatly reduces the risks associated with exposure to contaminated soil and groundwater, and, is cost effective.

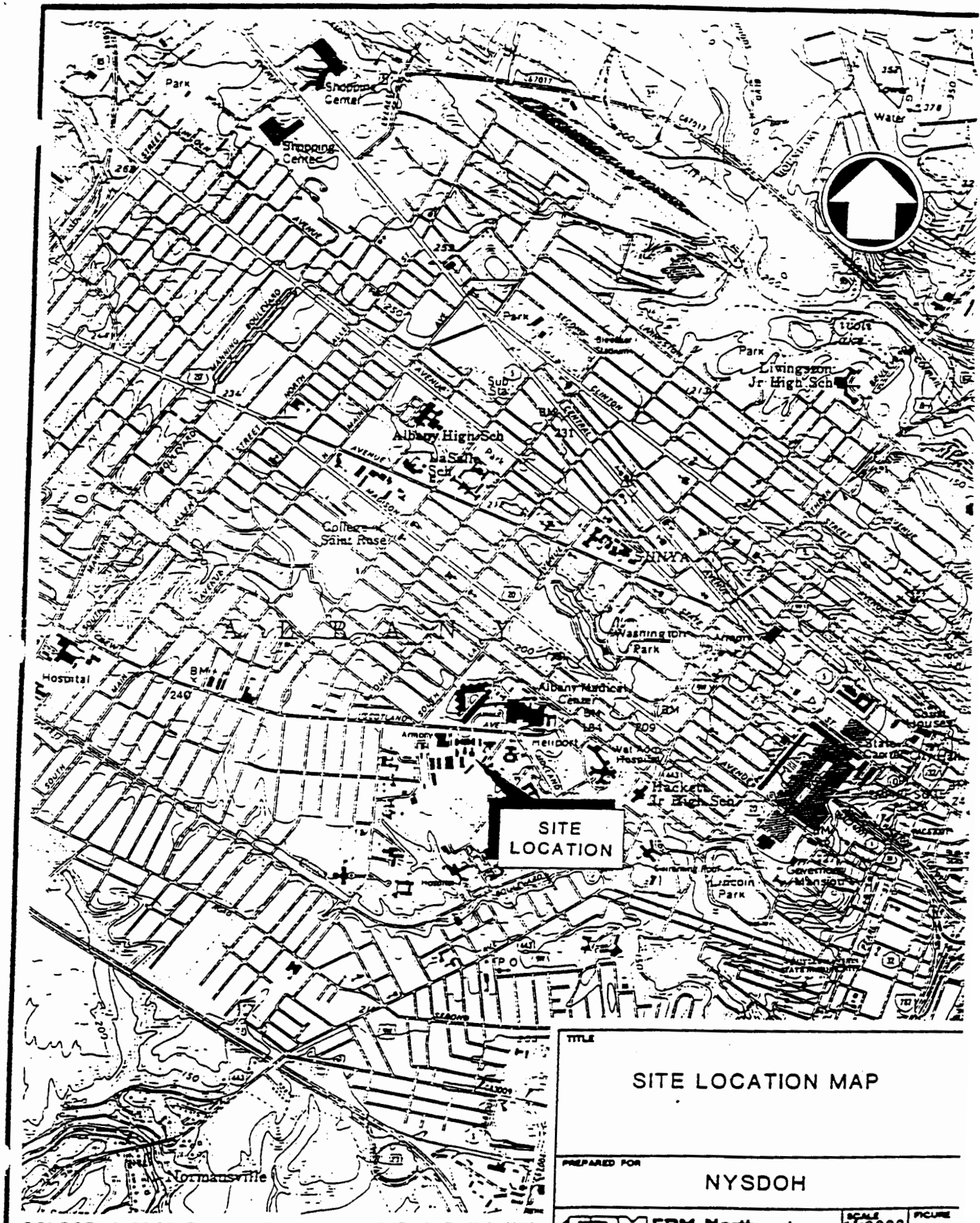
If it is determined, on the basis of system performance data, that groundwater treatment of the area specified is not feasible, the following measures involving long-term management may occur for an indefinite period of time:

- longterm monitoring of the affected wells
- statement that it is infeasible to continue groundwater controls
- remedial technologies for groundwater restoration will be evaluated periodically.
- other efforts will be made to evaluate technologies that would remediate the most mobile contaminants (i.e. vacuum extraction).

The decision to invoke any or all of these measures may be made during periodic review of the remedial action, which will occur at least every 5 years, or sooner, if necessary.

The remaining options require: 1) a much higher outlay of monies for a minor increase in risk reduction, 2) are not permanent remedies and require significant coordination with other agencies with more time required for implementation (alternatives #3,5,6), or, 3) do not reduce the associated risks to appropriate levels (#1,2).

It is expected that the project design would be completed in August 1992 and that construction would start shortly thereafter.



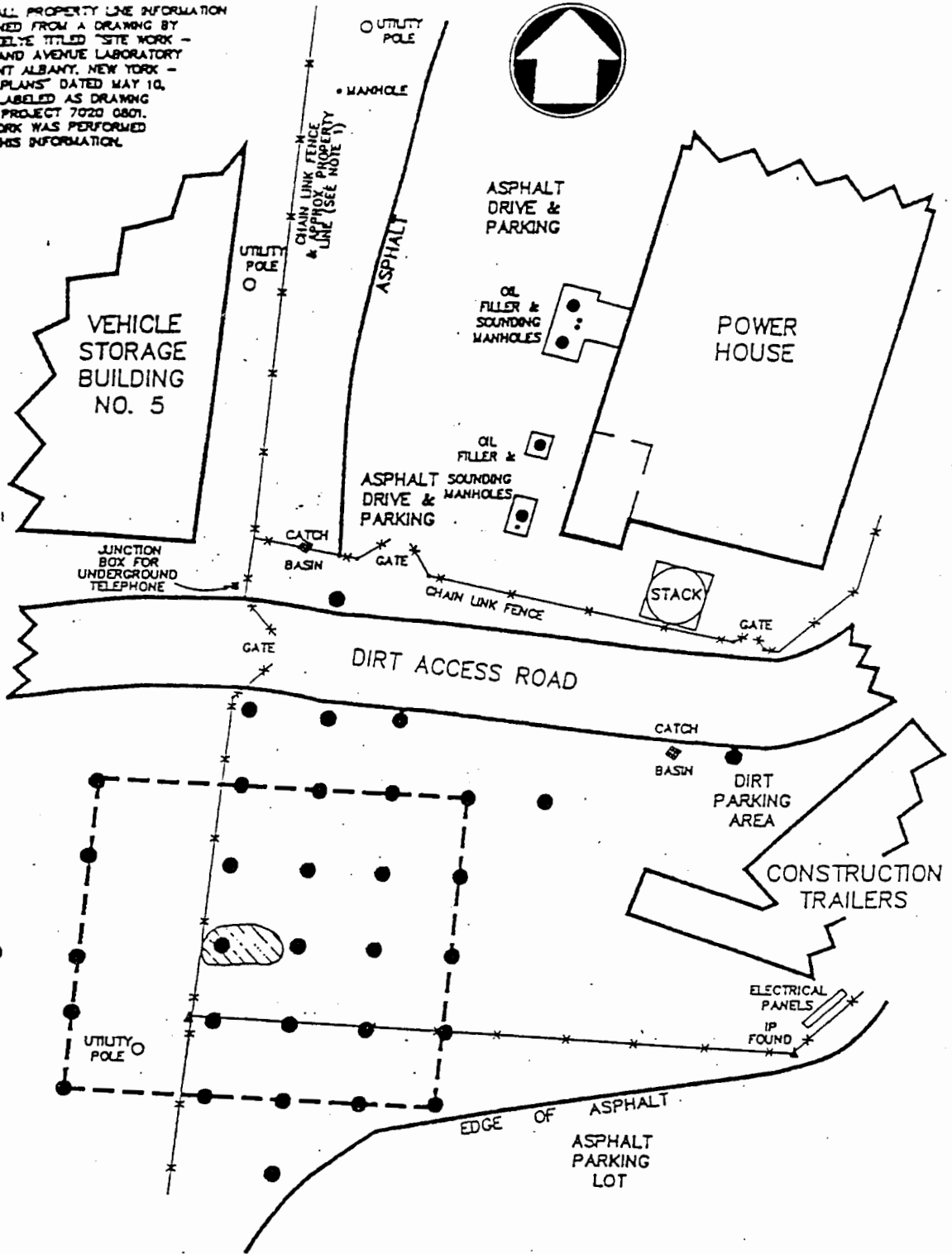
|                                    |               |
|------------------------------------|---------------|
| TITLE                              |               |
| SITE LOCATION MAP                  |               |
| PREPARED FOR                       |               |
| NYSDOH                             |               |
| ERM                                | ERM-Northeast |
| Environmental Resources Management |               |
| SCALE                              | FIGURE        |
| 1:2000                             | 1             |
| DATE                               |               |

SOURCE: NYSDOT 7.5 MINUTE QUADRANGLE ALBANY, N.Y., 1983 EDITION.

**FIGURES**

NOTE 1: ALL PROPERTY LINE INFORMATION WAS OBTAINED FROM A DRAWING BY URSBACH/SEELYE TITLED "SITE WORK - NEW SCOTLAND AVENUE LABORATORY REPLACEMENT ALBANY, NEW YORK - PHASE I - PLANS" DATED MAY 10, 1990, AND LABELED AS DRAWING NO. 01 FOR PROJECT 7020 0801. NO FIELD WORK WAS PERFORMED TO VERIFY THIS INFORMATION.

1ST BATTALION 210th ARMORED DIVISION  
NEW YORK ARMY NATIONAL GUARD



**LEGEND**

● SOIL BORING LOCATION



TOTAL TCL VOLATILE ORGANIC COMPOUNDS EXCEED 1 ppm FOR SAMPLES 1' TO 4' BELOW GROUND SURFACE

BASED ON 1990 RI DATA

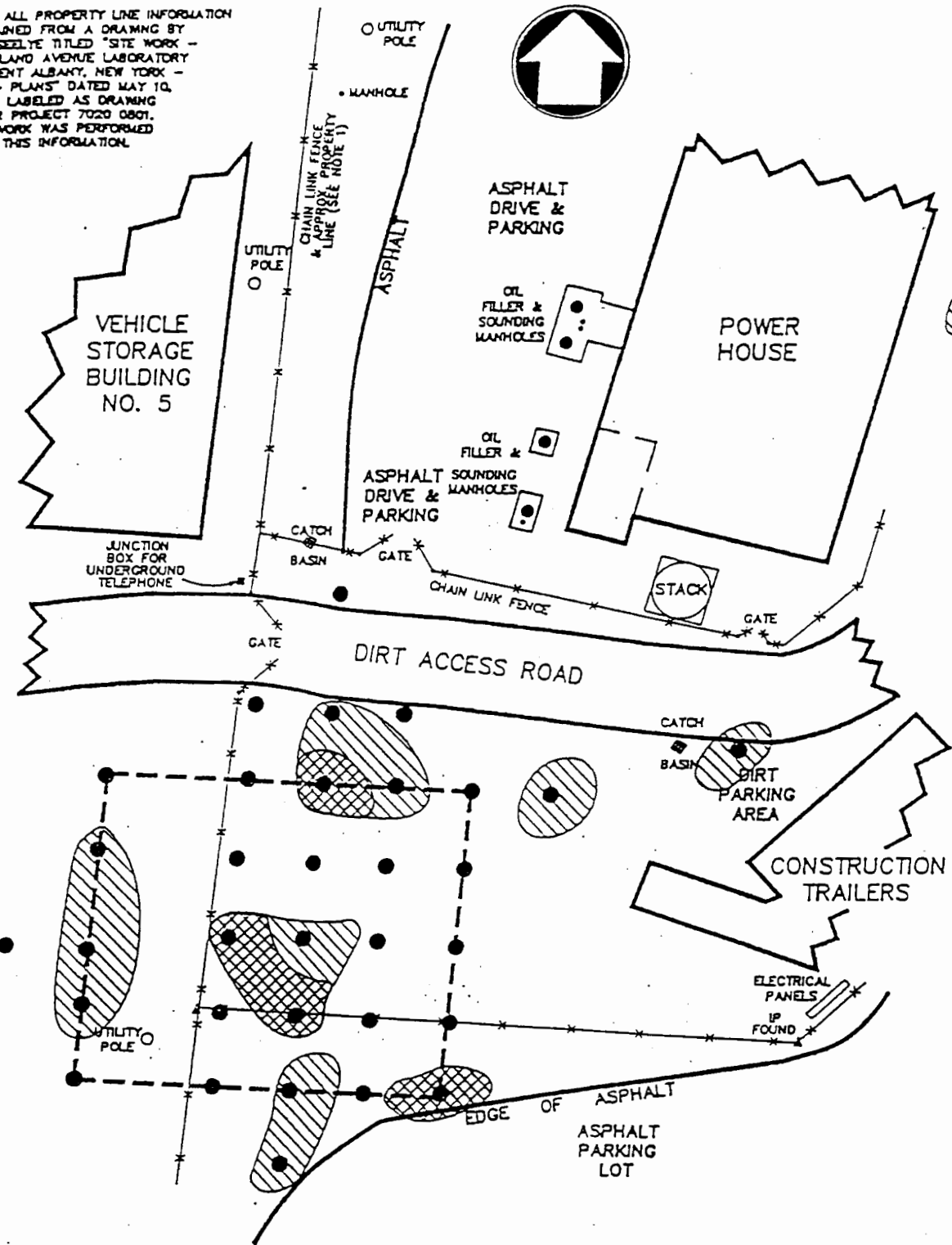
LANDS N/F  
CHRISTIAN BROTHERS  
ACADEMY

|              |  |                                      |        |
|--------------|--|--------------------------------------|--------|
| TITLE        |  | TOTAL TCL VOLATILE ORGANIC COMPOUNDS |        |
| PREPARED FOR |  | NYS DEPARTMENT OF HEALTH             |        |
| ERM          | ERM-Northeast<br><i>Environmental Resources Management</i> | SCALE                                | FIGURE |
|              |  | 1" = 40'                             | 2      |
|              |  | DATE                                 | 12/90  |

SOURCE: MAP ENTITLED, "SITE PLAN FOR WADSWORTH LABORATORY, ALBANY, NEW YORK" PREPARED 11/15/90 BY CAPE SERVICES, INC. FOR ERM-NORTHEAST, ALBANY, NEW YORK.

NOTE 1: ALL PROPERTY LINE INFORMATION WAS OBTAINED FROM A DRAWING BY URBAN/SEELYE TITLED "SITE WORK - NEW SCOTLAND AVENUE LABORATORY REPLACEMENT ALBANY, NEW YORK - PHASE I - PLANS" DATED MAY 10, 1990 AND LABELED AS DRAWING NO. 01 FOR PROJECT 7020 0801. NO FIELD WORK WAS PERFORMED TO VERIFY THIS INFORMATION.

1ST BATTALION 210th ARMORED DIVISION  
NEW YORK ARMY NATIONAL GUARD



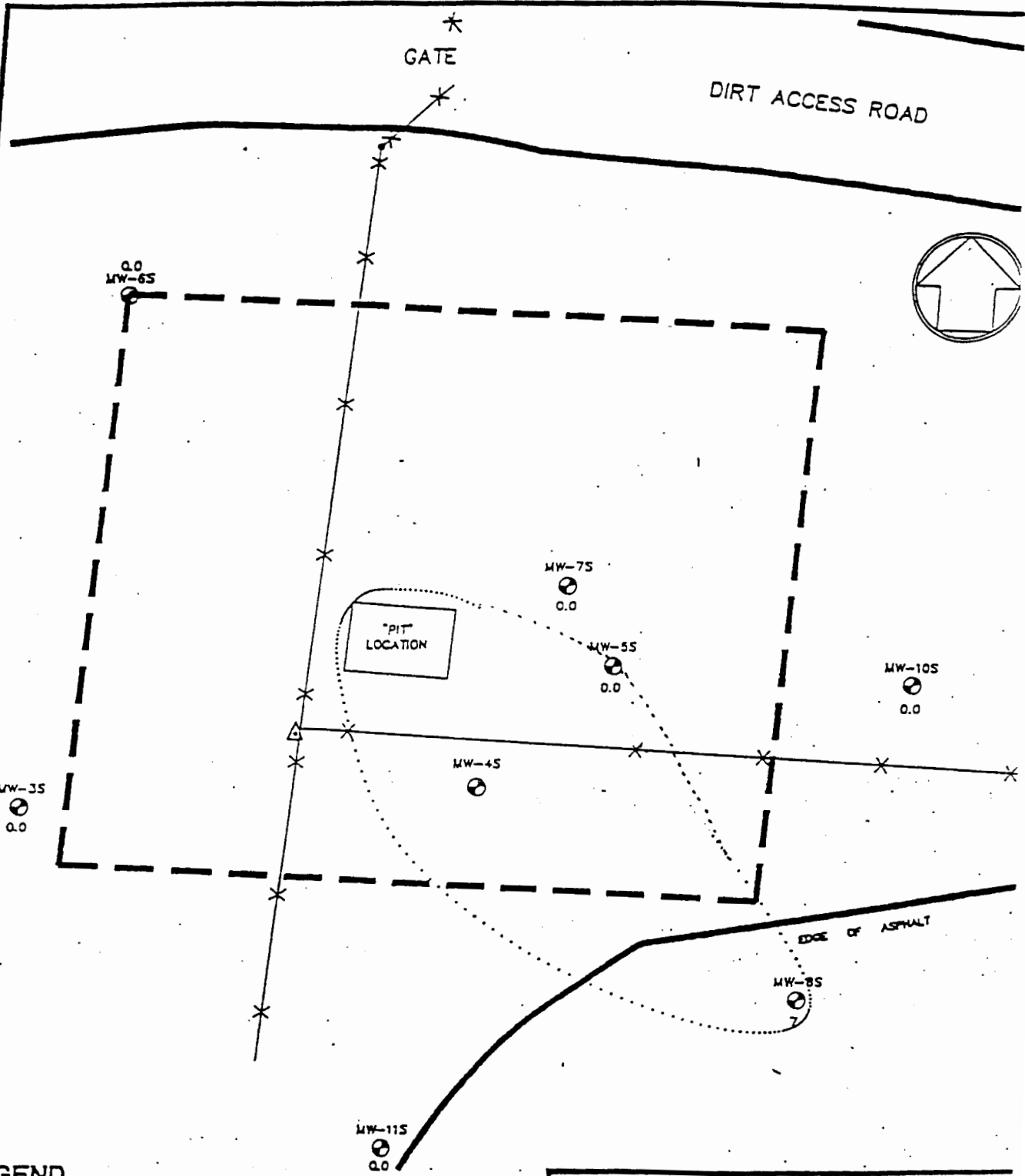
**LEGEND**

- SOIL BORING LOCATION
- ▨ TOTAL TCL AND TIC SEMI-VOLATILE ORGANIC COMPOUNDS EXCEED 1ppm
- ▩ TOTAL TCL AND TIC SEMI-VOLATILE ORGANIC COMPOUNDS EXCEED 10ppm BASED ON 1990 RI DATA FOR SAMPLES 1' TO 8' BELOW GROUND SURFACE

LANDS N/F  
CHRISTIAN BROTHERS  
ACADEMY

|  |                                    |
|--|------------------------------------|
| TITLE  |                                    |
| <b>TOTAL TCL AND TIC<br/>SEMI-VOLATILE ORGANIC COMPOUNDS</b>   |                                    |
| PREPARED FOR<br><b>NYS DEPARTMENT OF HEALTH</b>                |                                    |
| <b>ERM</b> ERM-Northeast<br>Environmental Resources Management | SCALE<br>1" = 40'<br>DATE<br>12/90 |
| FIGURE<br>3  |                                    |

SOURCE: MAP ENTITLED, "SITE PLAN FOR WADSWORTH LABORATORY, ALBANY, NEW YORK" PREPARED 11/15/90 BY CAPE SERVICES, INC. FOR ERM-NORTHEAST, ALBANY, NEW YORK.



**LEGEND**

MW-85 — MONITORING WELL LOCATION & ID NUMBER  
 ● — TOTAL CONCENTRATION  
 7 — (in ppb)



ESTIMATED EXTENT OF  
 IN GROUND WATER  
 BASED ON APRIL 1991 SAMPLING

**ESTIMATED EXTENT OF  
 CONTAMINATION IN  
 GROUND WATER**

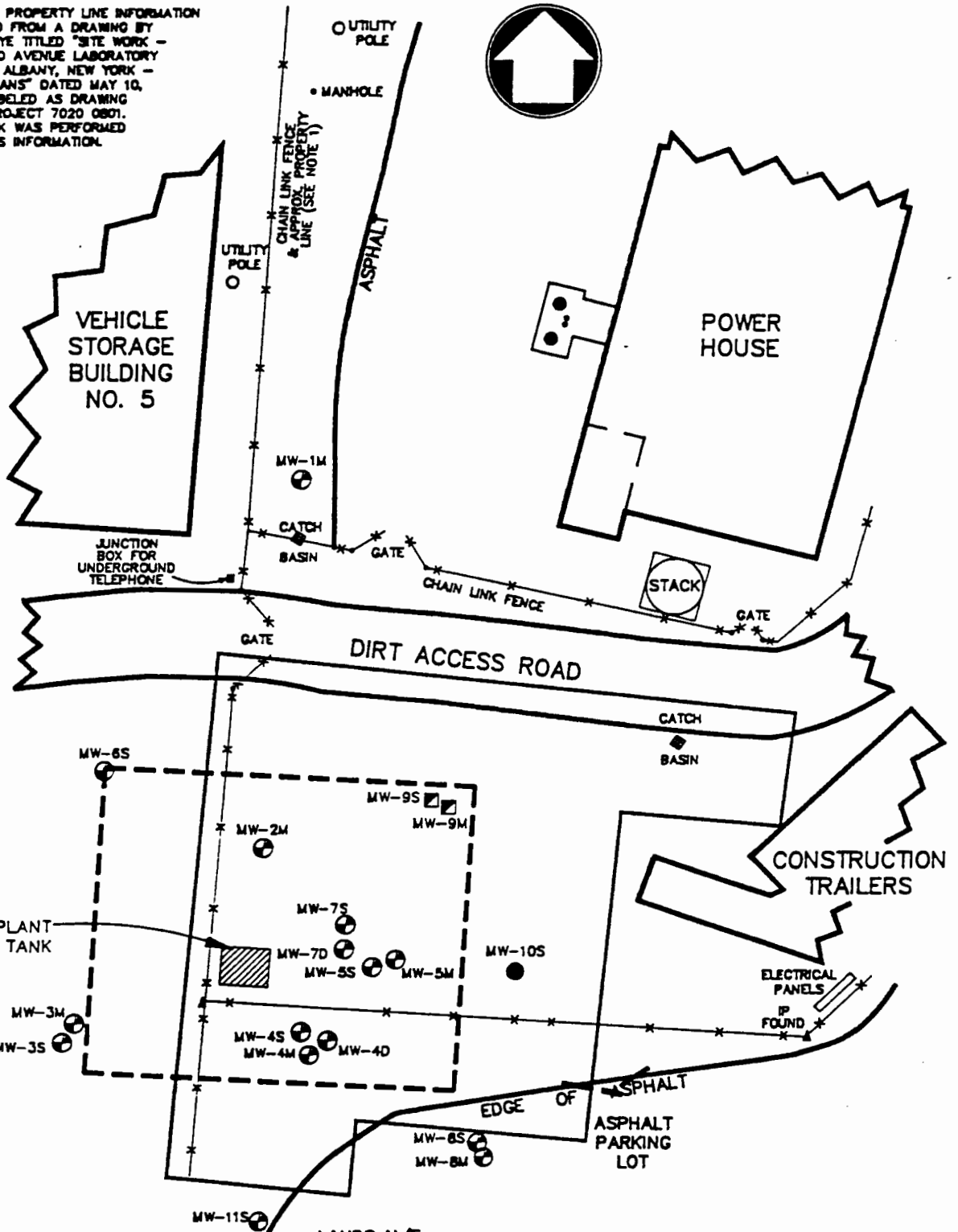
PREPARED FOR  
**NYS DEPARTMENT OF HEALTH**

**ERM** Environmental Resources Management  
 ERM-Northeast

|                 |             |
|-----------------|-------------|
| SCALE<br>1"=20' | FIGURE<br>4 |
| DATE<br>6/91    |             |

NOTE 1: ALL PROPERTY LINE INFORMATION WAS OBTAINED FROM A DRAWING BY URBAN/SEELYE TITLED "SITE WORK - NEW SCOTLAND AVENUE LABORATORY REPLACEMENT ALBANY, NEW YORK - PHASE I - PLANS" DATED MAY 10, 1990, AND LABELED AS DRAWING ACT.01 FOR PROJECT 7020 0801. NO FIELD WORK WAS PERFORMED TO VERIFY THIS INFORMATION.

1ST BATTALION 210th ARMORED DIVISION  
NEW YORK ARMY NATIONAL GUARD



**LEGEND**

- MW-3M EXISTING MONITORING WELL LOCATION & ID NUMBER (PHASE I)
- MW-10S MONITORING WELL LOCATION AND ID NUMBER (PHASE II)
- MW-9S PIEZOMETER LOCATION AND ID NUMBER (PHASE II)
- PROPOSED AREA TO BE CAPPED

LANDS N/F  
MW-11M CHRISTIAN BROTHERS  
ACADEMY

TITLE

**ALTERNATIVE #4**  
**MW-4S, MW-4M, MW-5S**  
**MONITORING WELL LOCATIONS**

PREPARED FOR

**NYS DEPARTMENT OF HEALTH**

**ERM** ERM-Northeast  
Environmental Resources Management

SCALE  
1" = 40'  
DATE  
5/91

FIGURE  
5

SOURCE: MAP ENTITLED, "SITE PLAN FOR WADSWORTH LABORATORY, ALBANY, NEW YORK" PREPARED 11/18/90 BY CAPE SERVICES, INC. FOR ERM-NORTHEAST, ALBANY, NEW YORK.



## TABLES

TABLE 1

## Summary of Maximum Contaminant Levels

| Substance            | Soil (ppb) | Groundwater (ppb) |  |
|----------------------|------------|-------------------|--|
| Acetone              | 190        | 75,000            |  |
| Benzene              | 65         | 14,000            |  |
| Carbon Tetrachloride | ND         | 1500              |  |
| Chloroform           | 5800       | 18,000            |  |
| Ethylbenzene         | 76         | 9600              |  |
| Methylene Chloride   | ND         | 230,000           |  |
| Tetrachloroethane    | 4700       | 750               |  |
| Toluene              | 39         | 24,000            |  |
| Trichloroethene      | 130        | 6100              |  |
| Xylene               | 280,000    | 40,000            |  |
|                      |            |                   |  |

\*ppb - parts per billion

\*ND - Not Detected

**EXHIBITS**

**EXHIBIT A**  
**Administrative Record**

- A. "1990 Remedial Investigation Report NYSDOH WCLR Albany New York", prepared by: ERM-Northeast, Inc., March 4, 1991.
- B. "Phase II Remedial Investigation Report NYSDOH WCLR Albany, New York", prepared by ERM-Northeast, Inc., August 20, 1991.
- C. "Draft Feasibility Study Wadsworth Center for Laboratories and Research", prepared by ERM-Northeast, Inc., August 22, 1991.
- D. "Citizen Participation Plan - New Scotland Avenue Site" prepared by the New York State Department of Environmental Conservation, November, 1991.
- E. Public Notice, Meeting Announcement for February 12, 1992 public meeting.
- F. Transcript of the public meeting, Albany College of Pharmacy, February 12, 1992.
- G. "Proposed Remedial Action Plan; New Scotland Avenue Site, Site # 401031" prepared by the New York State Department of Environmental Conservation; Division of Hazardous Waste Remediation, January, 1992.

## **EXHIBIT B**

### **Responsiveness Summary**

All questions and comments were received by the Department at the public meeting held on February 12, 1992. Responses to these questions are included as part of the official transcript, pg 21 - 32, as attached. The full transcript may be found in the document repositories.

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STATE OF NEW YORK  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

\*\*\*\*\*

In the Matter

-of-

a Public Hearing on a Proposed Remedial  
Action Plan, New Scotland Avenue Site:  
Site No. 401031

\*\*\*\*\*

TRANSCRIPT OF PROCEEDINGS at a public  
hearing in the above-captioned matter held by  
the New York State Department of Environmental  
Conservation at Room 102A, Albany College of  
Pharmacy, 106 New Scotland Avenue, Albany, New  
York, on the 12th day of February 1992,  
commencing at 7:30 o'clock p.m.

PRESIDING:

SUSAN BENJAMIN, Project Manager  
Hearing Officer

1 determined in the design phase.

2 This pretty much concludes our  
3 presentation. We can take questions and  
4 comments from anyone, and we do have a comment  
5 period that extends through March 6th, so if you  
6 think of something later that you wanted to ask,  
7 you can submit written comments to me which is  
8 at -- and the address is indicated in the  
9 pamphlet, the paper that's on the table over  
10 here -- and afterwards, after we complete the  
11 comment period, the Department will issue a ROD,  
12 which is a record of decision which indicates  
13 what indeed we will be requiring, the action  
14 that we would be requiring to take out there.

15 So any questions?

16 Yes. Could you state your name,  
17 please.

18 MR. JENSEN: Yeah I'm Roger  
19 Jensen, with the Division of Military and Naval  
20 Affairs.

21 The question I have, I'm the  
22 realty officer for the Division. Are you just  
23 considering the boundary lines here as indicated

1 on your drawings as the fence line, and you  
2 know, in your remediation in covering the pit,  
3 does that extend across those boundary lines, or  
4 is it just going to be in this pit location, or  
5 don't we know yet?

6 MS. BENJAMIN: The cap, it will  
7 probably go beyond the fence line that's  
8 treat... that now exists there, and will  
9 probably go onto your property, but it's -- it  
10 extends to the pit and just beyond there.  
11 That's something we will have to discuss with  
12 you when we get to the design.

13 MR. JENSEN: O.K.

14 MS. BENJAMIN: Yes.

15 MR. MARTIN: Brother William  
16 Martin, C.B.A.

17 You mentioned, final item in your  
18 proposal of -- affecting the remediation here  
19 would be fencing the area. Do you have an idea  
20 yet just what areas would be fenced?

21 MS. BENJAMIN: Probably just the  
22 areas -- and we'll have to discuss this with  
23 DOH, but I believe the fence that they were



1 talking about was just on DOH property because  
2 that -- that's the only area that they really  
3 have control of access and deed restrictions at  
4 this time.

5 They may be talking to you about  
6 putting some kind of access restrictions on your  
7 property, but we really have to discuss that in  
8 the design. But right now, I believe the fence  
9 is just to the DOH property line.

10 MR. MARTIN: The -- may I  
11 continue?

12 MS. BENJAMIN: M-m h-m-m.

13 MR. MARTIN: What do you see the  
14 present responsibility of C.B.A. being in this  
15 whole project?

16 MS. BENJAMIN: Is just being able  
17 to work with the Department of Health and the  
18 only problem with the C.B.A. property is that  
19 there is groundwater contamination underneath  
20 the property and, if there is some way to  
21 prevent anyone from drilling a well or doing any  
22 intrusive work into that corner of your  
23 property, that's what we would like to see.

1 Other than that, there -- we  
2 don't envision any further responsibility on  
3 your part.

4 MR. MARTIN: O.K. Regarding the  
5 general concept of liability, what would you see  
6 our liability being at this point?

7 MS. BENJAMIN: Being that I'm not  
8 a lawyer, I'm an energy, I -- I'm really not  
9 conversant in those areas, but it's -- the  
10 contamination extended from something that  
11 occurred on DOH property and happens to go  
12 off-site onto your property. I -- I really  
13 can't tell you what exactly the liability is,  
14 but I would think it would be minimal. It's  
15 mostly a DOH problem at this point.

16 MR. MARTIN: Hypothetical case:  
17 Supposing a person using our property should  
18 fall in that area after your remediation or even  
19 now, for that matter, and --

20 MS. BENJAMIN: Well, right now  
21 there's no risk of -- from people walking across  
22 the area or it's only if someone were to  
23 actually dig in the area, ingest any of the

1 underground water, go numerous feet underneath  
2 the surface and get dirt or something on their  
3 hands. Right now, there's no -- there's no risk  
4 for anyone crossing the site.

5 MR. MARTIN: Well, supposing  
6 someone should, let's say, fall and have an  
7 abrasion and then infection or whatever set in.  
8 I may be worrying about a non-possible  
9 situation, but supposing the person injured in  
10 that way or apparently injured in that way would  
11 come back at us, they got this at our place,  
12 where do we stand?

13 MS. BENJAMIN: Well, the  
14 investigation that has been done to this point  
15 and that the Environmental Conservation  
16 Department has approved, the risk assessment is  
17 that there is no risk to anyone for the site in  
18 its present condition, and so there really -- I  
19 should think they would have no case.

20 MR. MYERS: The thing I think,  
21 Father, they would have to ingest. The biggest  
22 risk is the ingestion of the PAHs to get a  
23 carcinogenic effect, and you would have to eat

1 quite a bit of it.

2 MR. MARTIN: You know that and I  
3 know that.

4 MR. MYERS: Yes, I understand  
5 where you're coming from.

6 MR. MARTIN: Somebody looking for  
7 a quick buck, it would cause us a hassle. It  
8 would cause you folks a hassle, I guess, too.

9 MS. BENJAMIN: Well, the cap that  
10 we're going to put on is -- will extend onto  
11 those areas that are contaminated with PAHs onto  
12 your property and, therefore, alleviate any  
13 possibility of anyone falling and incurring  
14 that, and we do hope to implement this by next  
15 fall. So we're talking eight months or so.

16 MR. MARTIN: How long would you  
17 say the entire remediation process would take?

18 MS. BENJAMIN: For the cap, as  
19 long as everything goes well, we're -- we would  
20 think at the most a couple months, and we will  
21 be -- if we finally do the groundwater treatment  
22 that will take place over quite a few number of  
23 years, but that won't affect any activity that's

1           ongoing at the site.

2                   MR. MARTIN: O.K. Thank you.

3                   MS. BENJAMIN: Sir, a question?

4                   MR. SAVAGE: Yeah, Bill Savage  
5 From DMNA. Got a lot of heavy equipment that's  
6 located fairly close to this cap. Have you  
7 looked into the possibility of maybe ground  
8 vibrations or anything that may disturb this  
9 thing? I'm talkin', you know, heavy tanks and  
10 things like that, quite active in that  
11 particular area.

12                   MS. BENJAMIN: Well, we haven't,  
13 but if that is indeed a problem at the site  
14 during the design of the cap, we'll have to take  
15 that into consideration putting maybe a greater  
16 protective layer or maybe utilizing something  
17 different than we envision at this moment. We  
18 -- I don't believe that there would be any of  
19 your equipment going across this cap. It  
20 wouldn't be --

21                   MR. SAVAGE: No, it runs fairly  
22 close to it because our property line runs right  
23 along the edge of it. As a matter of fact, this

1 particular area extends onto our property.

2 MS. BENJAMIN: M-m h-m-m. But it  
3 goes -- I believe there's a substantial hill,  
4 about six feet in height between the two proper-  
5 ties, and we wouldn't be capping up the side of  
6 the hill. We would be up to that hill, so your  
7 equipment would be a little distance away from  
8 the cap.

9 MR. SAVAGE: Would you think of  
10 incorporating the proposal in Alternate 5 into  
11 Alternate 4 and possibly excavating the highly  
12 volatile area?

13 MS. BENJAMIN: Well, we did, but  
14 the problem with Alternate 5 is that it is  
15 excavation, and the far greater expense of doing  
16 a small excavation in that site outweighed any  
17 of -- any of the benefits that we would get from  
18 it. It's a small area, but we would anticipate  
19 that we'd run into a numerous number of graves  
20 and to bring in an archaeologist that's trained  
21 in performing hazardous waste remediation  
22 techniques is just -- it boggles the mind, and  
23 the implementation of such a thing would take --

1 take a couple years to do.

2 MR. SAVAGE: Would there be any  
3 type of bioremediation that you would utilize  
4 for this, would you say?

5 MS. BENJAMIN: Not really. That  
6 was ruled out in preliminary screening of the  
7 feasibility study, so once we got to these or  
8 prior to getting to these six alternatives, we  
9 looked at bioremediation and numerous other  
10 alternatives and, for one reason or another, and  
11 maybe Dave can specify --

12 MR. MYERS: Bioremediation has  
13 worked a lot better with hydrocarbon  
14 contamination than it does with the solvents  
15 that we have at the site.

16 MR. PHELAN: Clayey soil also  
17 exists there.

18 MR. SAVAGE: O.K.

19 MR. JANSEN: Just one other  
20 comment. We were out there this afternoon, and  
21 I think the equipment we're talking about is  
22 basically the contractor's equipment putting up  
23 the wing on the building out there, not

1 necessarily the military equipment.

2 MS. BENJAMIN: O.K.

3 MR. JANSEN: That was one of the  
4 things we were concerned about and, though it  
5 was fenced off somewhat, it looked like cyclone  
6 fencing and anyone could walk over. We did. So  
7 I'm not --

8 MS. BENJAMIN: O.K. It's not a  
9 problem. It's just a precaution to say, People,  
10 you really shouldn't be in this area because we  
11 don't really want anyone kicking up the dirt or  
12 taking a backhoe and digging up -- Oh, here's  
13 some nice soil over here; we'll just dig it.

14 MR. JANSEN: Well, see, that's  
15 the other consideration because they keep  
16 changing that roadbed, that road, depending how  
17 much it keeps getting torn up. They keep  
18 throwing gravel on there and, you know, just for  
19 the short term, I might be concerned where they  
20 would be picking up some of that gravel and  
21 scraping the surface somewhat, because it's been  
22 done and we've seen it happen a couple times.

23 MS. BENJAMIN: Well, that's



1 something -- there are some people here from DOH  
2 who are involved in both the construction of the  
3 building and the remediation of the site and  
4 it's a good point. I -- and by the coordination  
5 of keeping the road away from the hazardous  
6 waste site which should be looked into by DOH,  
7 but if -- we're going to coordinate construction  
8 activities that are ongoing out there with the  
9 remediation of the site, and so that's why we do  
10 anticipate that we'll have something going on  
11 out there next fall because it will be -- for  
12 them it's a convenient time between construction  
13 periods.

14 MR. SAVAGE: Well, that -- on  
15 these monitoring wells that you have out there,  
16 do you have -- how long do you anticipate to  
17 monitor the site? Is that going to be ongoing  
18 continually.

19 MS. BENJAMIN: Most likely, yes,  
20 until we find out that for some reason there is  
21 no longer any contamination out there or we  
22 determine that it's really not necessary for  
23 long-term monitoring to occur, but it usually

1 goes on for numerous years.

2 MR. PHELAN: May be that we can  
3 reduce the monitoring network to a smaller  
4 number of wells.

5 MS. BENJAMIN: Right.

6 MR. MYERS: For water sample four  
7 times and then twice a year thereafter so we can  
8 analyze the results and see what kind of results  
9 we're getting and then, based on our results,  
10 make future decisions.

11 MS. BENJAMIN: Anything else?

12 (There was no response. )

13 MS. BENJAMIN: Thank you for  
14 attending and, if you have any questions or come  
15 up with anything more, please feel free to write  
16 to me before March 6th.

17 (Whereupon at 8:10 p.m., the  
18 hearing was concluded. )

19

20

21

22

23



A. Sylvester



Langdon Marsh  
Commissioner

FEB 21 1995

This letter was sent to the people on the attached list.

Dear :

The Department of Environmental Conservation (DEC) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at 120 New Scotland Avenue in the city of Albany and County of Albany and designated as Tax Map Number 186.93 was recently reclassified as a Class 4 in the Registry. The name and site I.D. number of this property as listed in the Registry is New Scotland Avenue (Wadsworth Laboratory), Site #401031.

The Classification Code 4 means that the site is properly closed - requires continued management.

We are sending this letter to you and others who own property near the site listed above, as well as the county and town clerks. We are notifying you about these activities at this site because we believe it is important to keep you informed.

If you currently are renting or leasing your property to someone else, please share this information with them. If you no longer own the property to which this letter was sent, please provide this information to the new owner and provide this office with the name and address of the new owner so that we can correct our records.

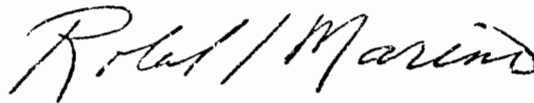
The reason for this recent classification decision is as follows:

- The site remedial measures have been implemented in conformance with the Record of Decision. An impermeable cap has been placed over the site with a portion of the area also being asphalt paved and used as a parking lot. Three quarterly sampling events have occurred. The reports indicated that contaminant levels are dropping as the leaching effect is reduced.

If you would like additional information about this site or the inactive hazardous waste site remedial program, call:

DEC's Inactive Hazardous Waste Site Toll-Free Information Number **1-800-342-9296** or  
New York State Health Department's Health Liaison Program (HeLP) **1-800-458-1158, ext.  
402.**

Sincerely,



Robert L. Marino  
Chief  
Site Control Section  
Bureau of Hazardous Site Control  
Division of Hazardous Waste Remediation

bcc: R. Marino  
J. Swartwout  
D. Roosa  
A. Sylvester  
A. Carlson  
L. Ennist

AS/srh

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County Clerk  
County Court House  
Room 128  
Albany, New York 12207

City of Albany  
City Hall  
Albany, New York 12207

Albany College of Pharmacy  
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