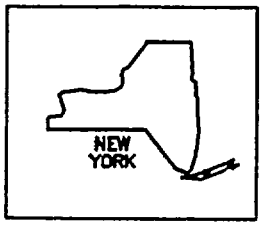
FIGURE 1

Site location map

I:\DWG\PROJECTS\5I \DWG\fig-01.DWG

FIGURE 1

SOURCE: USGS 7.5 MINUTES HICKSVILLE QUADRANGLE MAP, 1967.



STATE LOCATION MAP

GTE OPERATIONS SUPPORT INCORPORATED
FORMER SYLVANIA ELECTRIC PRODUCTS INCORPORATED FACILITY
HICKSVILLE, NEW YORK

SITE LOCATION MAP

4000 0 4000

1"=4000'

5816.001.701
DEC. 1999

O'BRIEN & GERE ENGINEERS INC.

FIGURE 2

Site boring locations

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 2, "SUPPLEMENTAL INVESTIGATION SOIL BORING LOCATIONS"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-01

FIGURE 3

Site boring locations with historic overlays

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 3, "SUPPLEMENTAL INVESTIGATION SOIL BORING LOCATIONS WITH HISTORICAL OVERLAY"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-02

FIGURE 4

Site vapor data

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 4, "SUPPLEMENTAL INVESTIGATION SOIL VAPOR DATA"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-03

FIGURE 5

Volatile organic compounds in soil

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 5,

"SUPPLEMENTAL INVESTIGATION VOLATILE ORGANIC COMPOUNDS IN SOIL"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-04

FIGURE 6

Nickel in soil

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 6, "SUPPLEMENTAL INVESTIGATION NICKEL CONCENTRATIONS IN SOIL"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-05

FIGURE 7

Soil gamma spectroscopy data

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 7, "SUPPLEMENTAL INVESTIGATION GAMMA SPECTROSCOPY DATA IN SOIL"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-06

FIGURE 8

U238 and Th232 data

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 8, "SUPPLEMENTAL INVESTIGATION U-238 AND Th-232 IN SOIL"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-07

FIGURE 9

Ground water flow map

THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

FIGURE 9, "GROUND WATER FLOW MAP DECEMBER 2000"

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

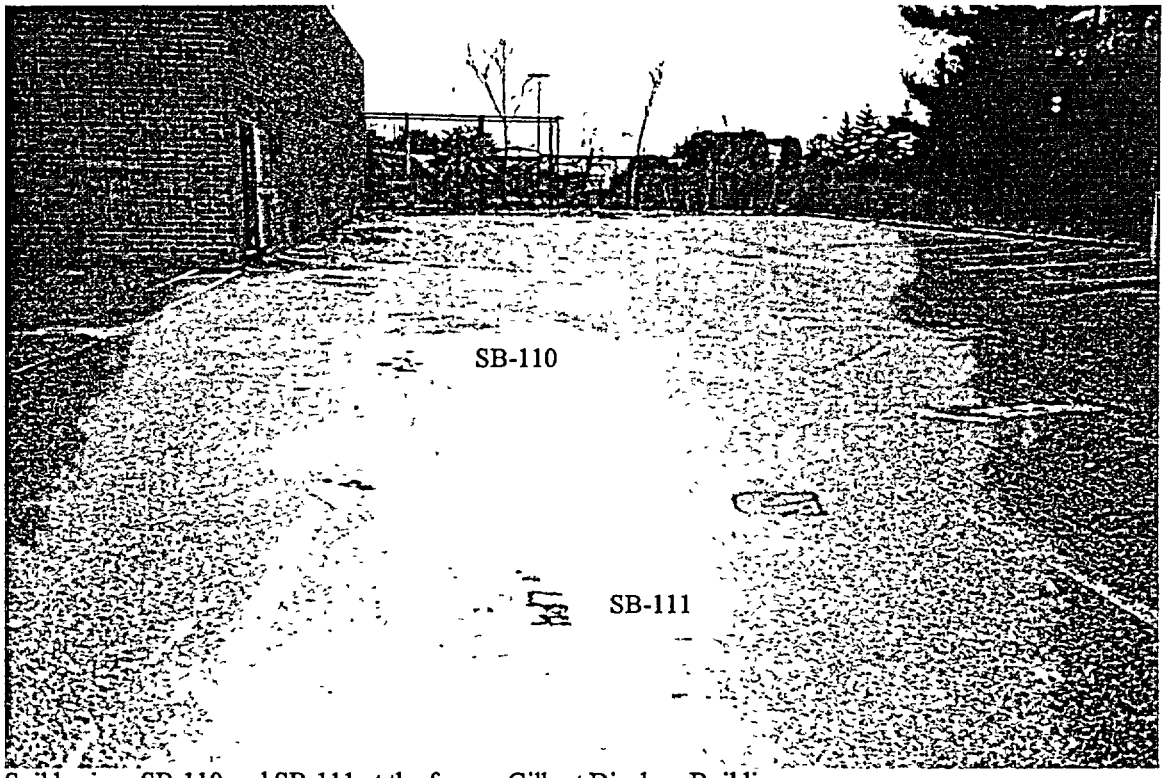
D-08

APPENDIX A

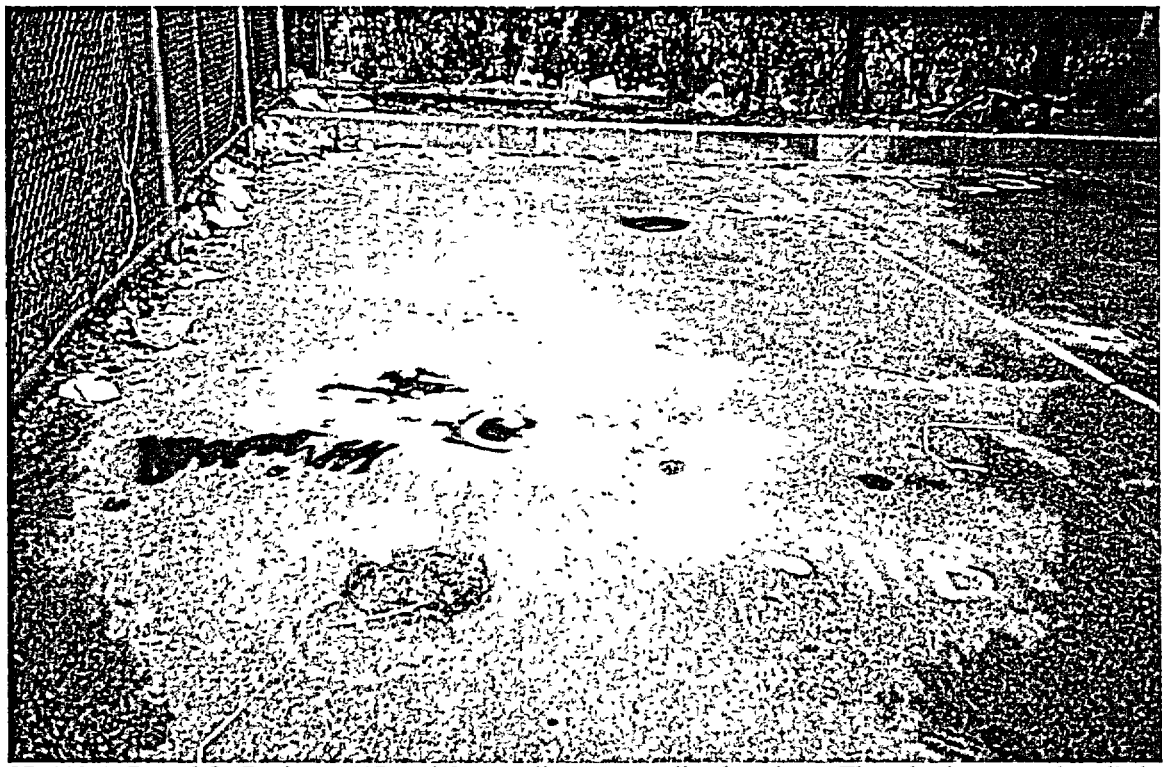
Photographs

Site Photographs

Photographs of SB-001 through SB-109 were included in the Investigative Report - January 2000 (Revision 2: December 2000). The enclosed photographs (SB-110 through SB-170) were taken during the Supplemental Investigation.



Soil borings SB-110 and SB-111 at the former Gilbert Displays Building.


SB-113 A, B, and C. Borings 113B and C were discrete sampling locations. These borings were installed to delineate Nickel in the subsurface at this location.

Soil boring SB-114 was installed between SB-074 and SB-070, in an area selected by NYSDEC personnel. This area was reportedly selected due to the potential presence of above background levels of radiation.

Soil boring SB-115 was advanced to evaluate the potential presence of process residuals at Magazine Distributors.

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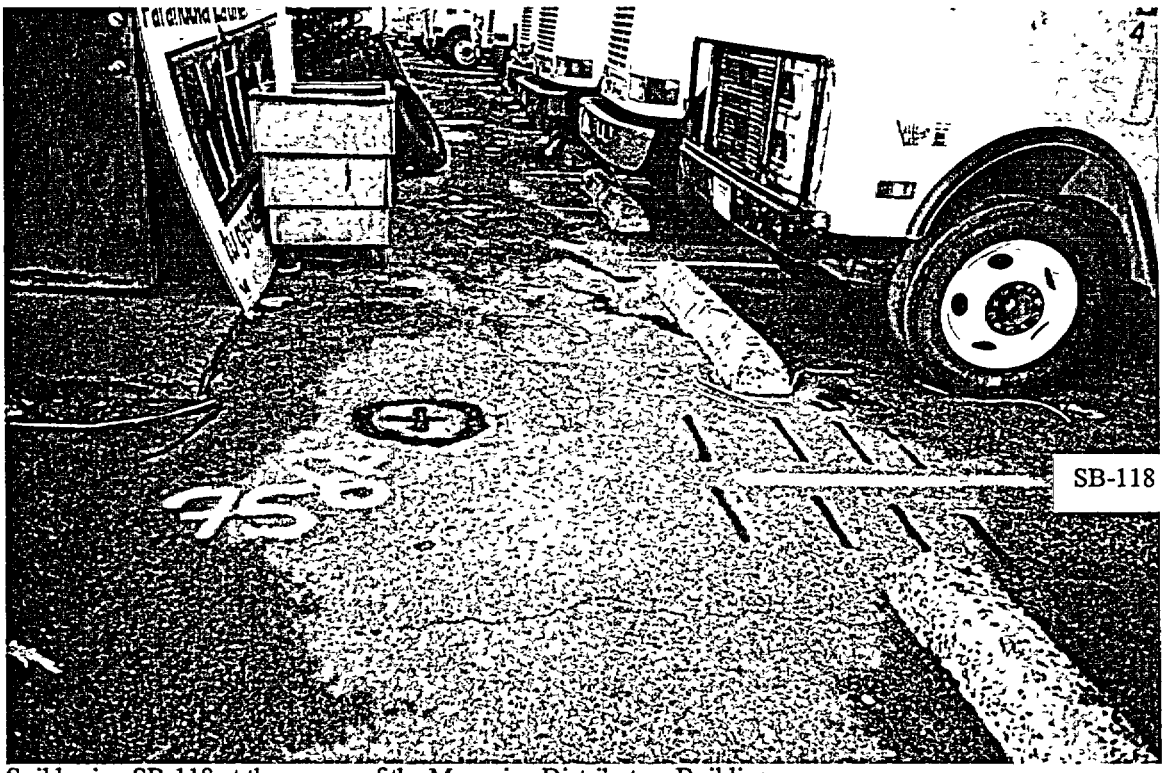
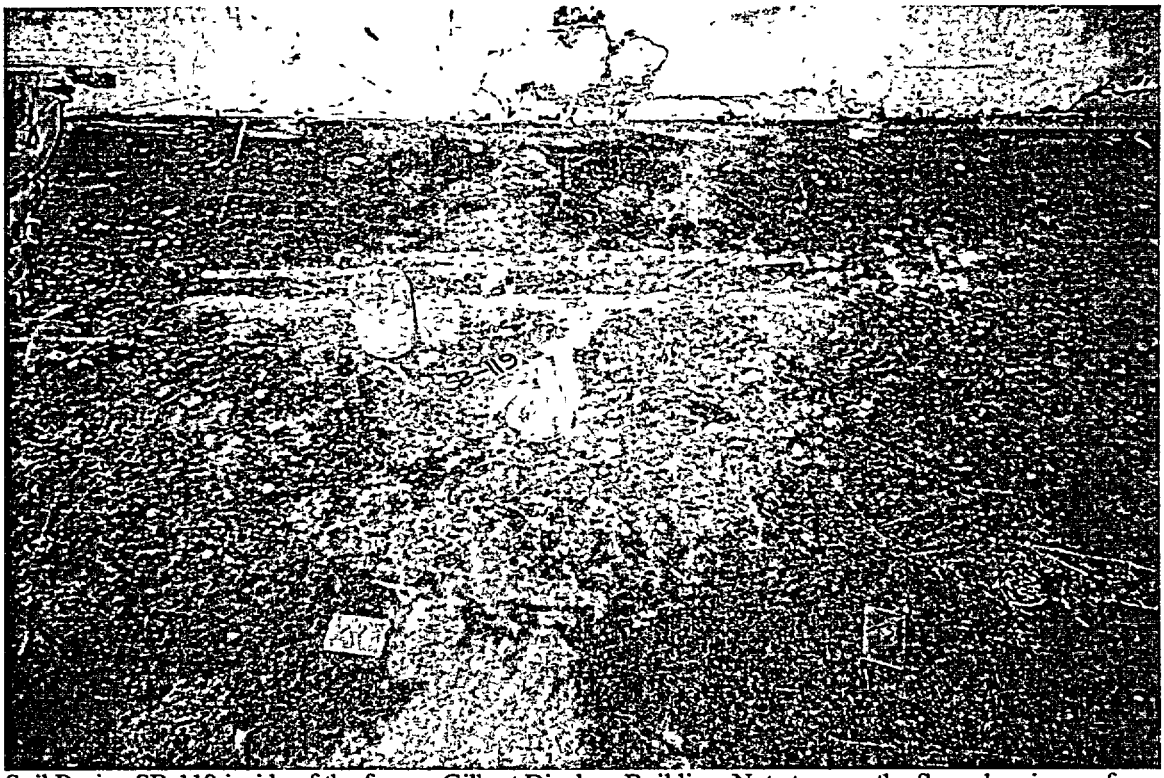
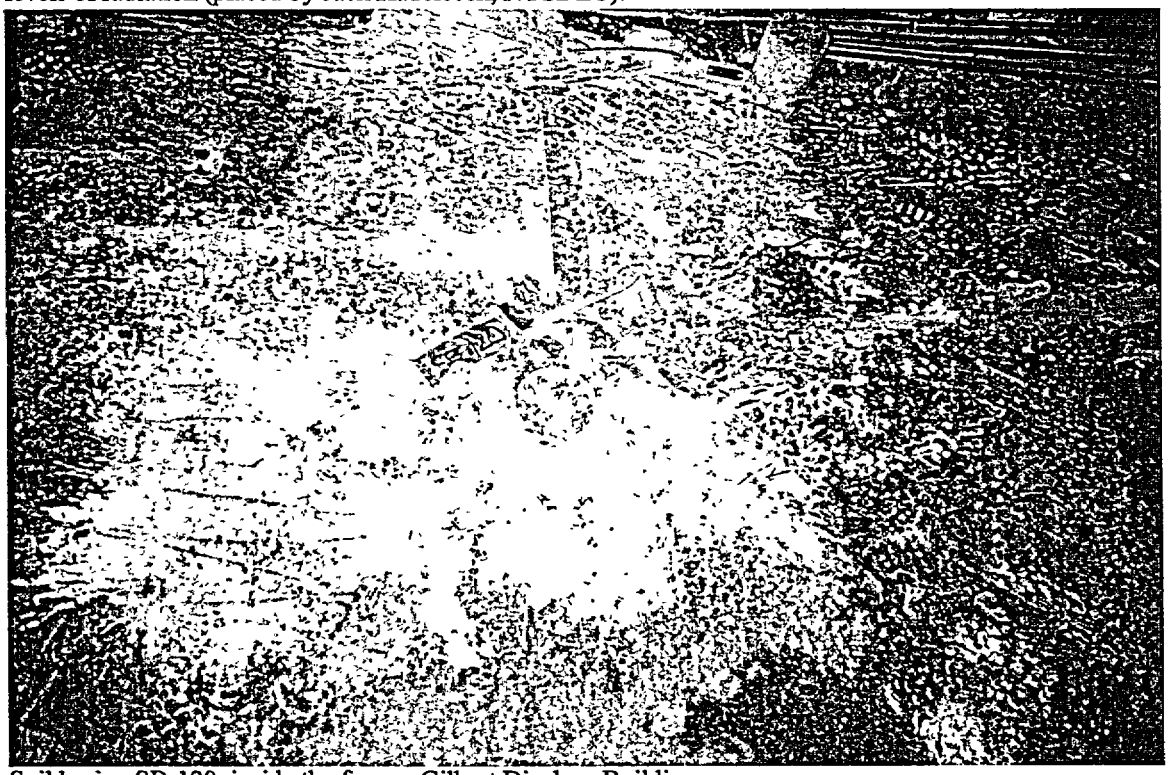
Soil boring SB-117 at the corner of the Magazine Distributors Building at a historic drywell location.



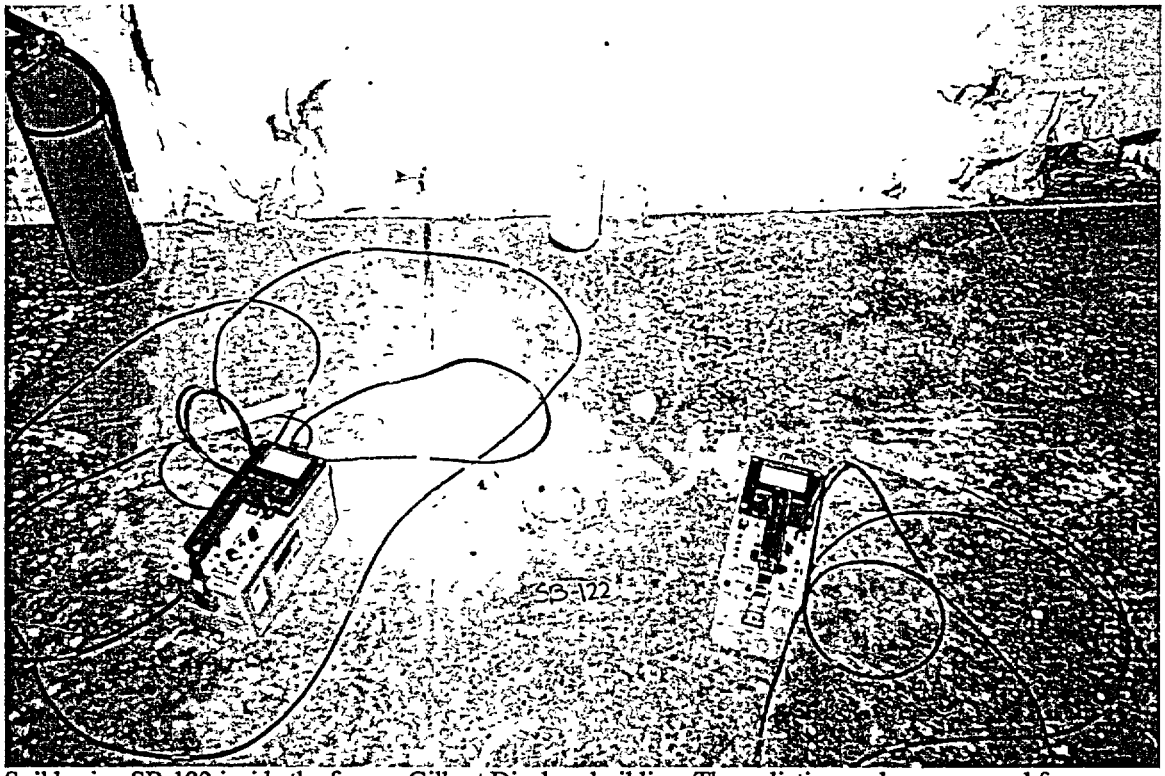
Soil boring SB-118 at the corner of the Magazine Distributors Building.



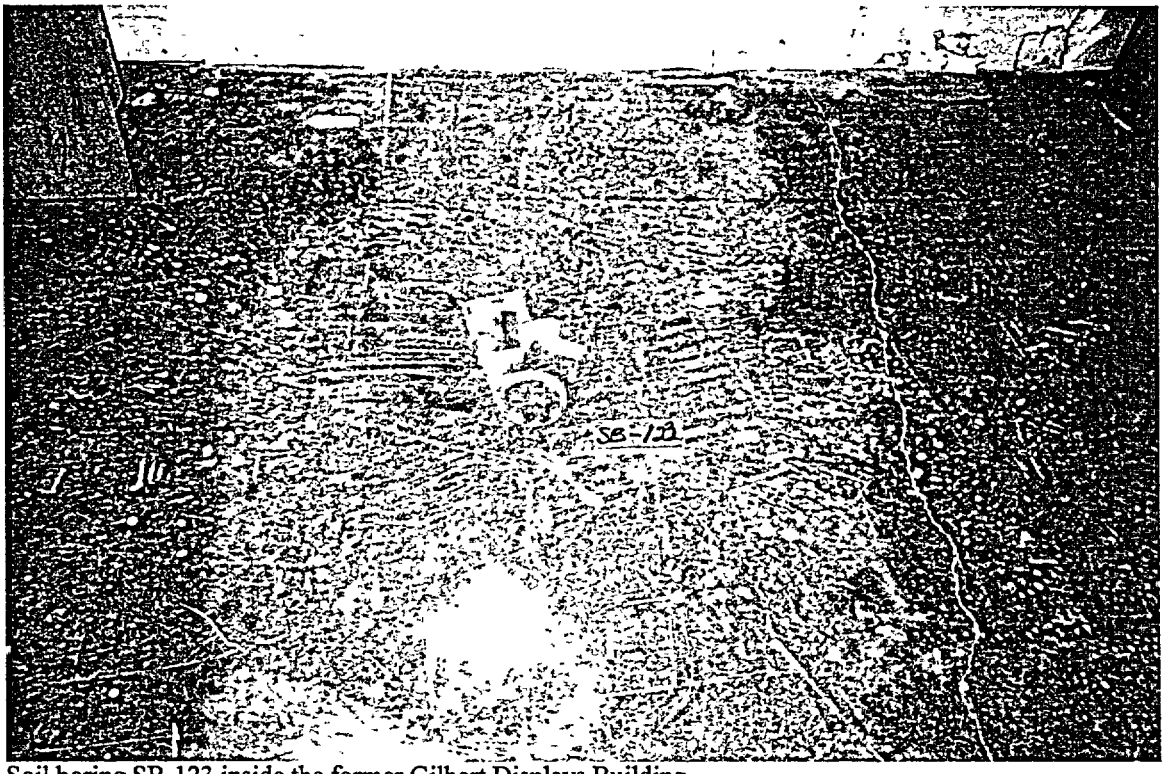
Soil Boring SB-119 inside of the former Gilbert Displays Building. Note tape on the floor showing surface levels of radiation (placed by Jack Kadelecek, NYSDEC).



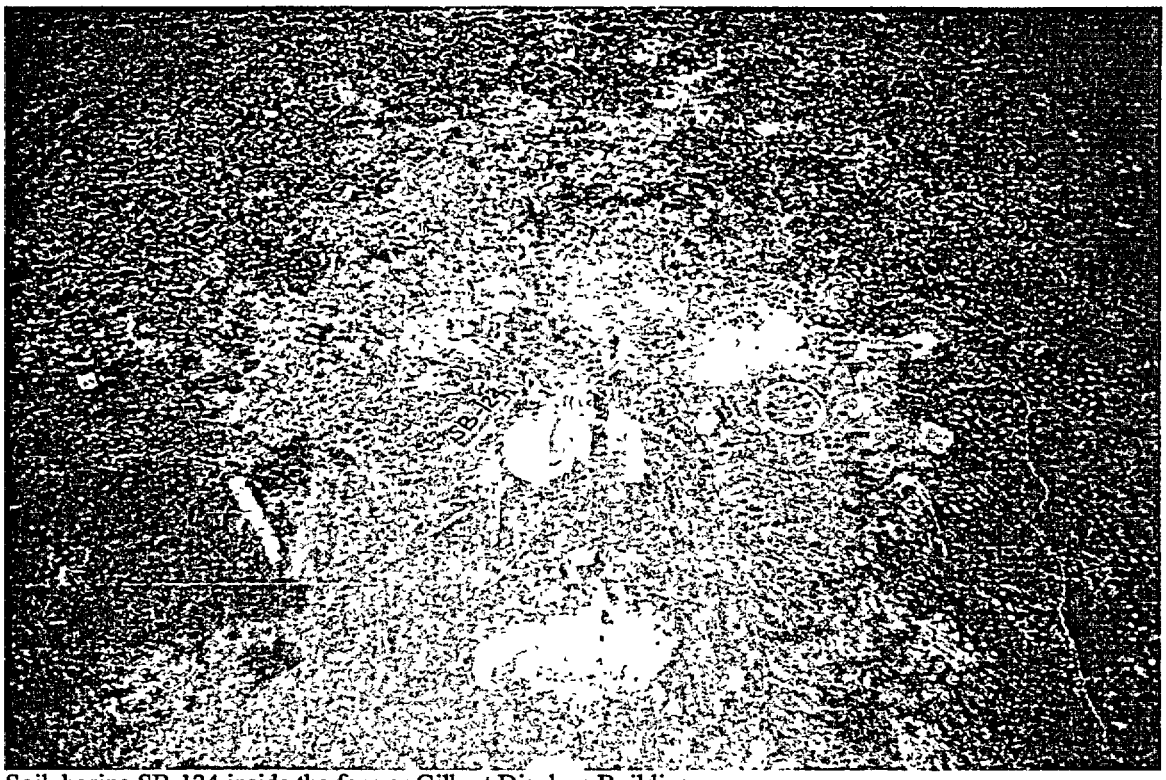
Soil boring SB-120, inside the former Gilbert Displays Building.



Soil boring SB-122 inside the former Gilbert Displays building. The radiation probes were used for downhole.measurements

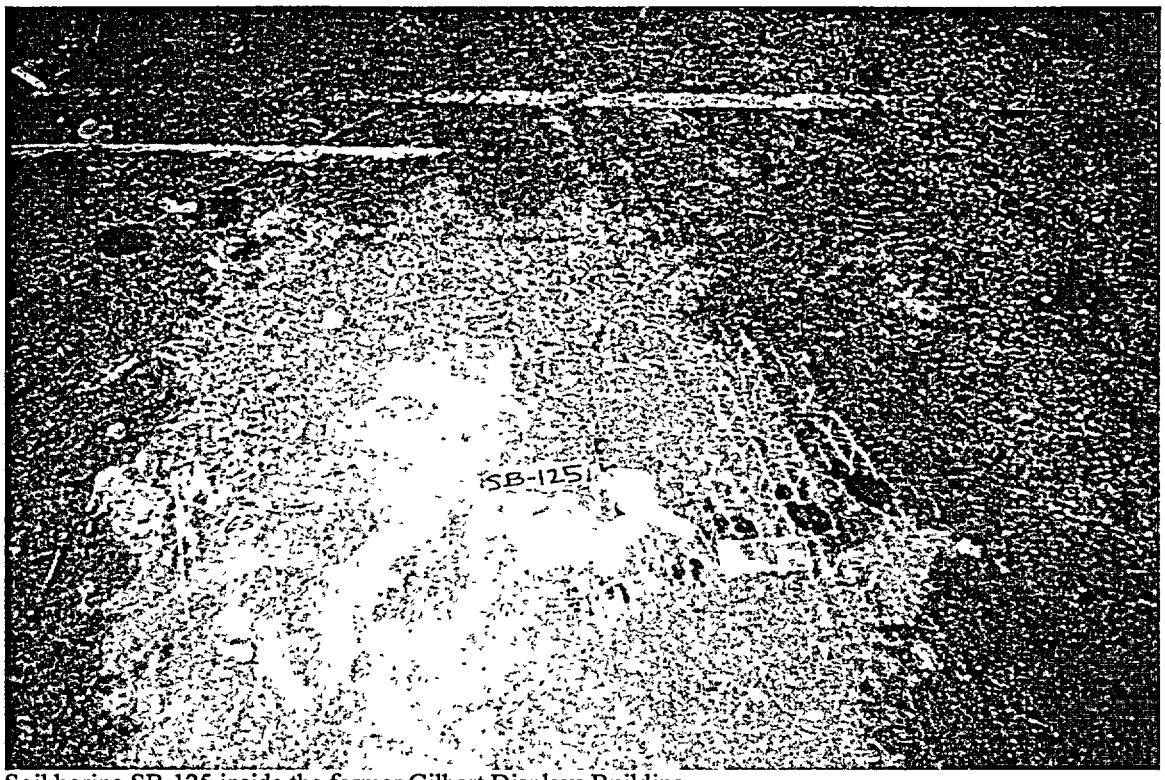


Soil boring SB-123 inside the former Gilbert Displays Building.

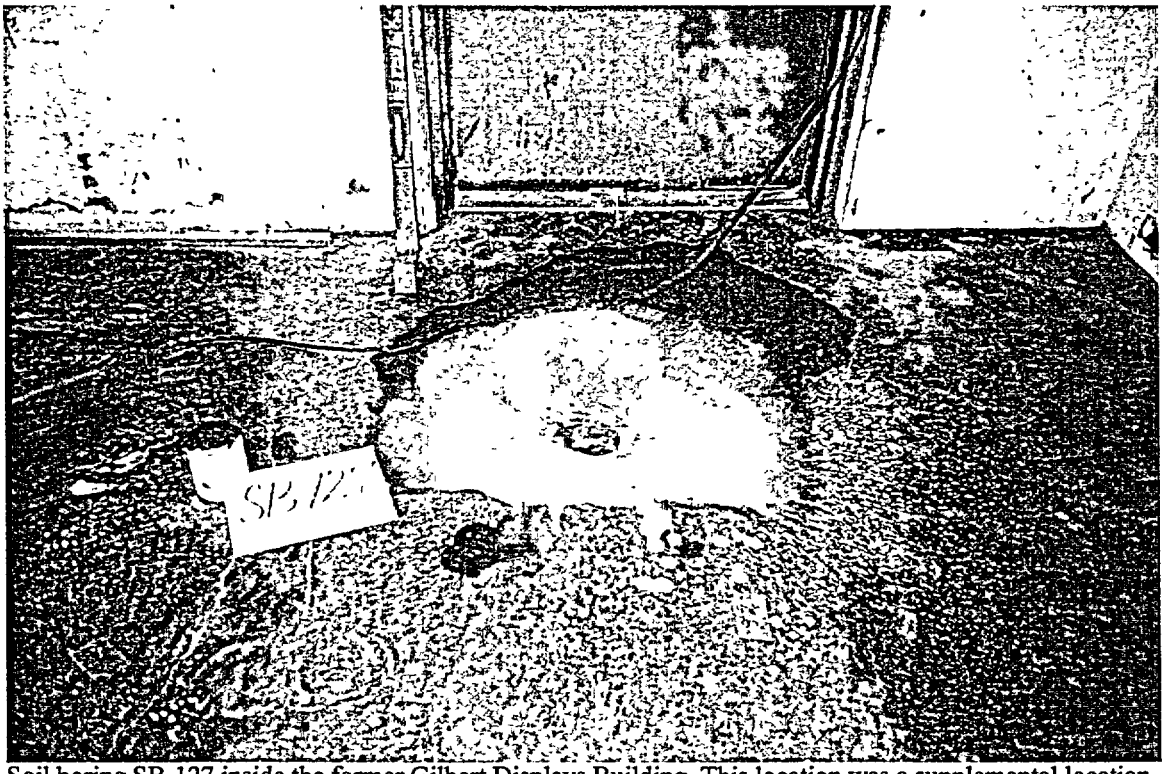


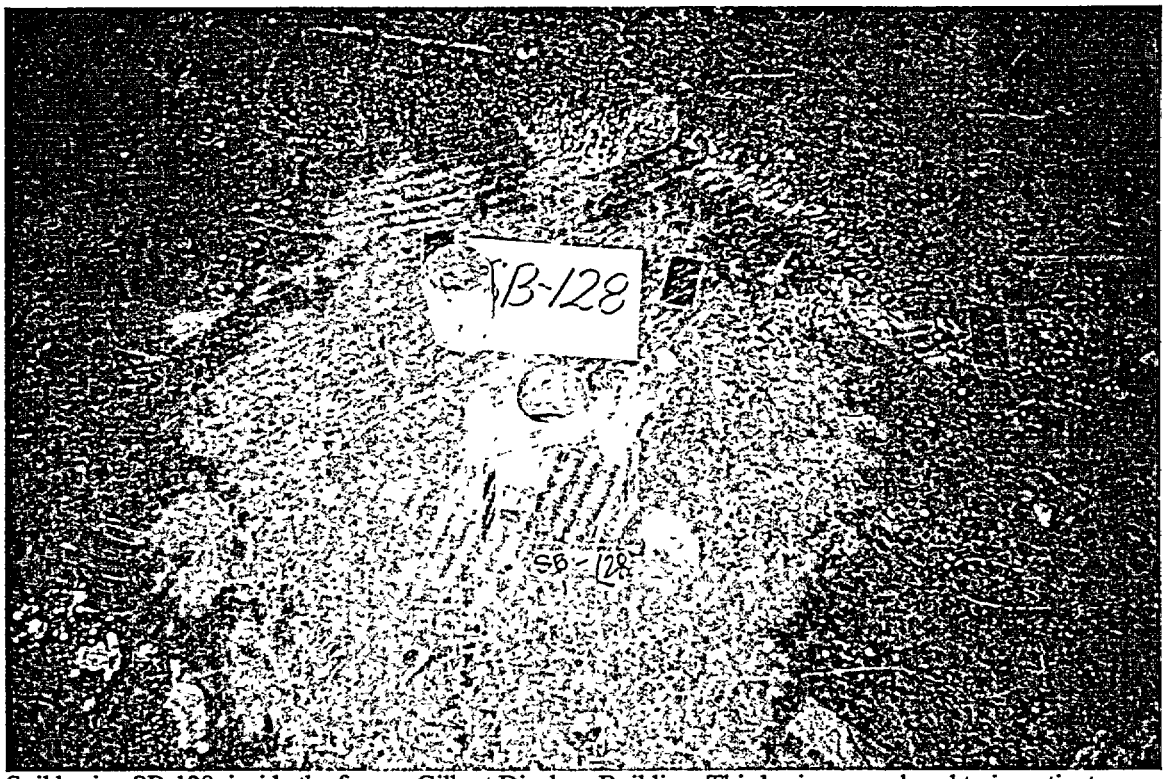
Soil boring SB-124 inside the former Gilbert Displays Building.

Inside of former Gilbert Displays Building. Soil boring SB-119, SB-120, SB-121, SB-124, SB-125, and SB-126 were installed in this area.



Soil boring SB-125 inside the former Gilbert Displays Building.

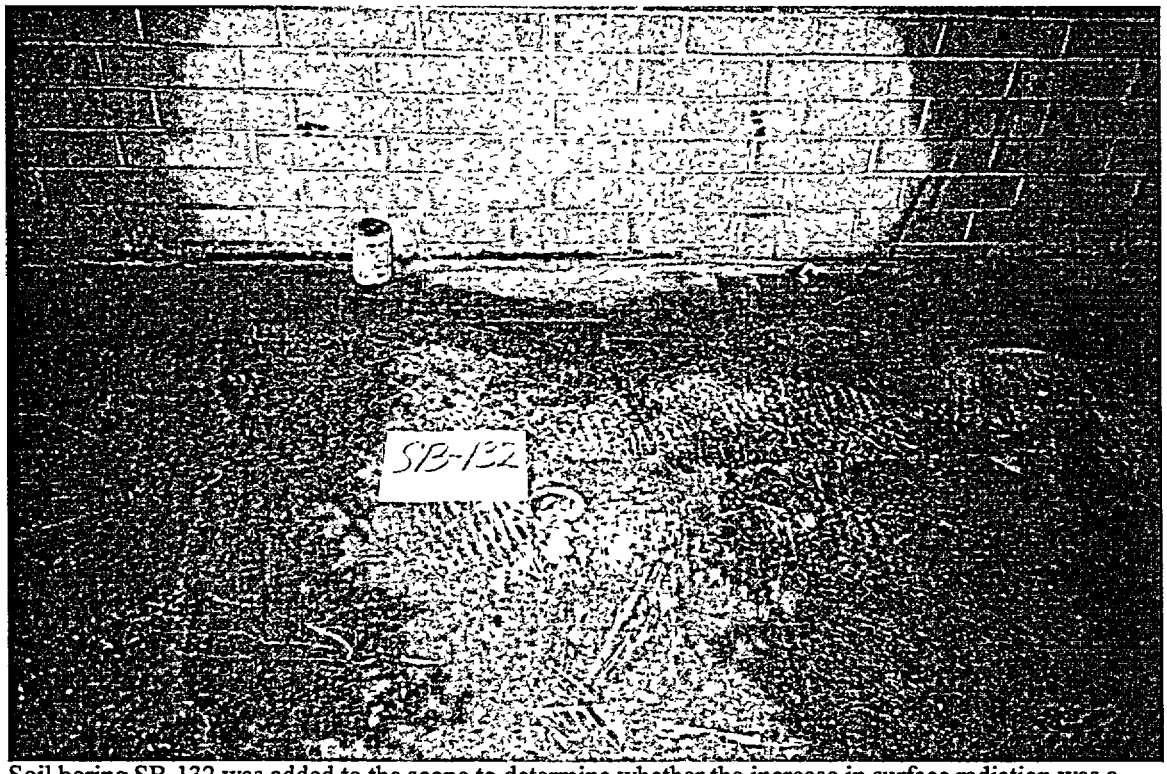

Soil boring SB-127 inside the former Gilbert Displays Building. This location was a supplemental location chosen by Jack Kadelecek, NYSDEC.



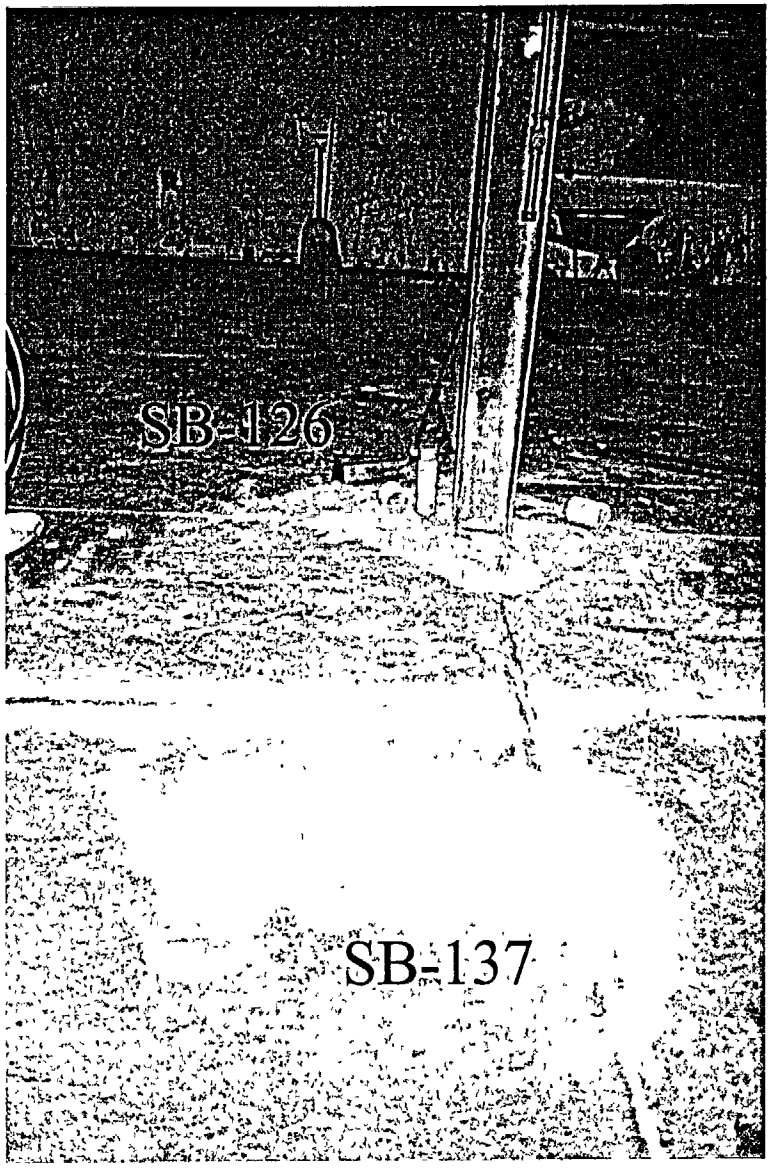
Soil boring SB-128, inside the former Gilbert Displays Building. This boring was placed to investigate surface levels of radiation.

Soil boring SB-130 was placed in the center of the former Gilbert Displays Building, at the location of a former historic leaching pool.

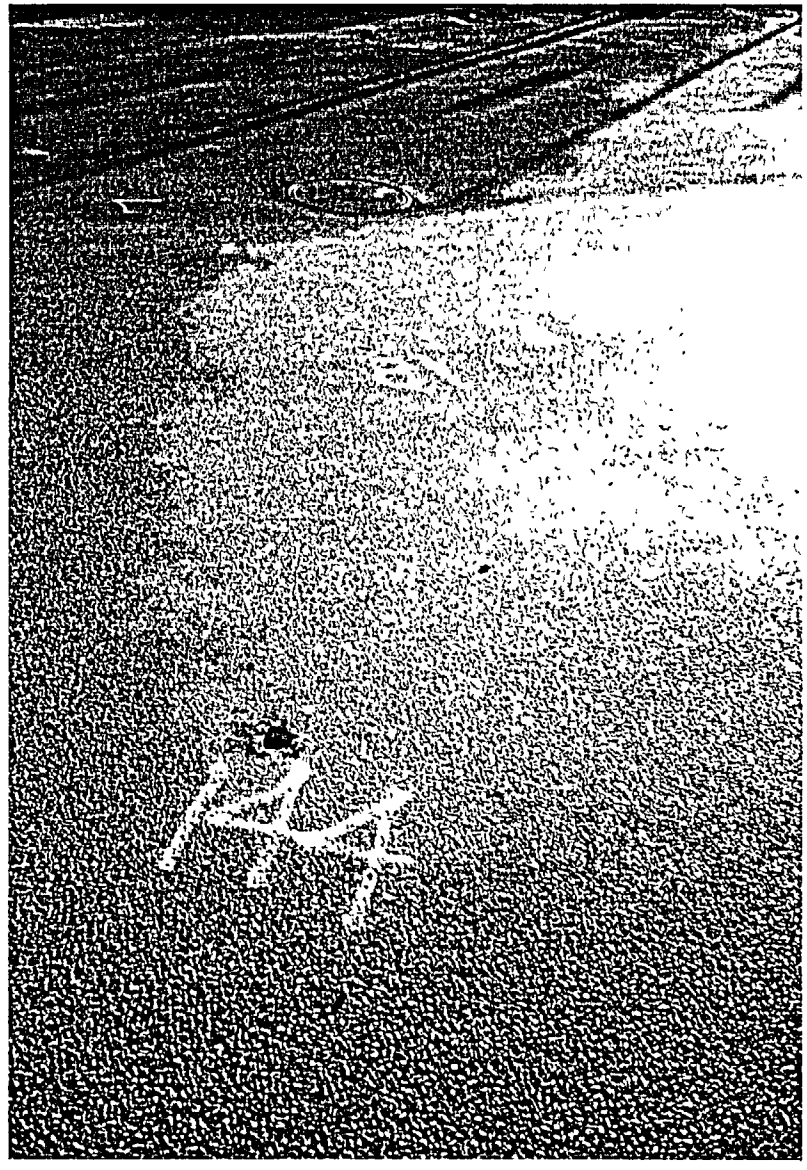
Soil boring SB-131 inside the former Gilbert Displays Building. LPH indicates an historic leaching pool.



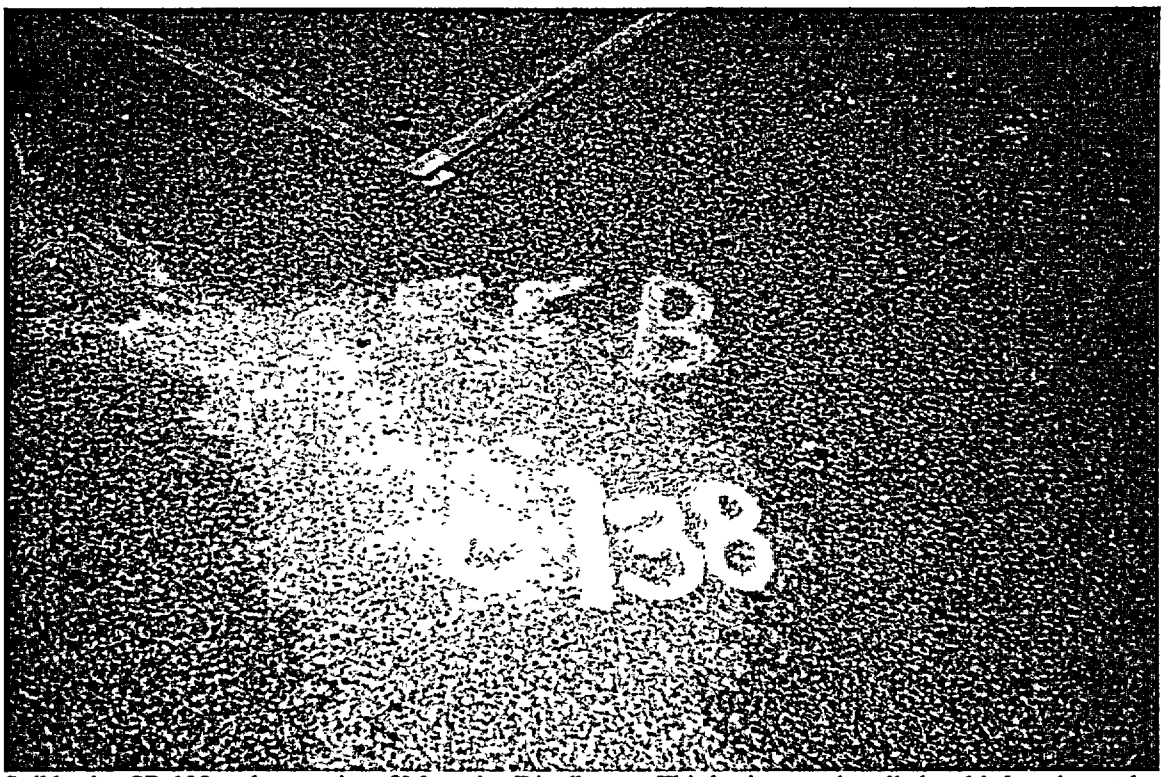
Soil boring SB-132 was added to the scope to determine whether the increase in surface radiation was a result of the proximity to the brick wall.



SB-126 and SB-137 inside the former Gilbert Displays Building.



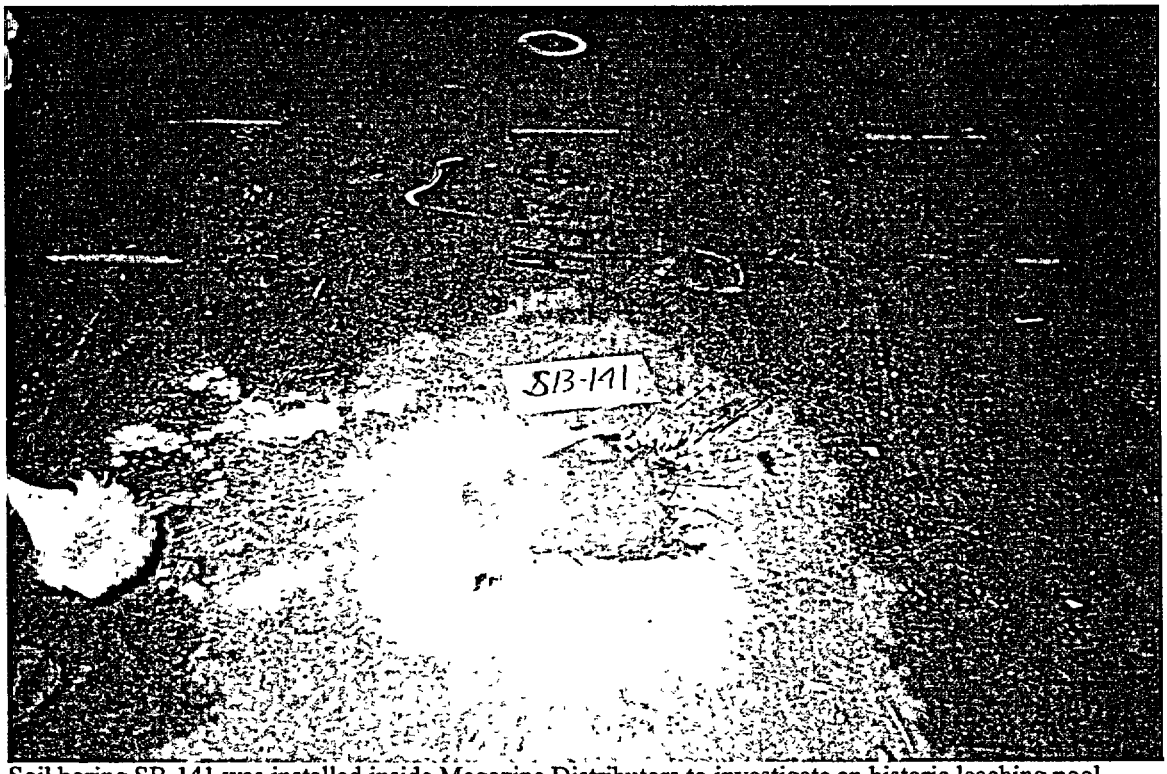
SB-144 was placed near SB-081 on the south side of Magazine Distributors near the transformer.



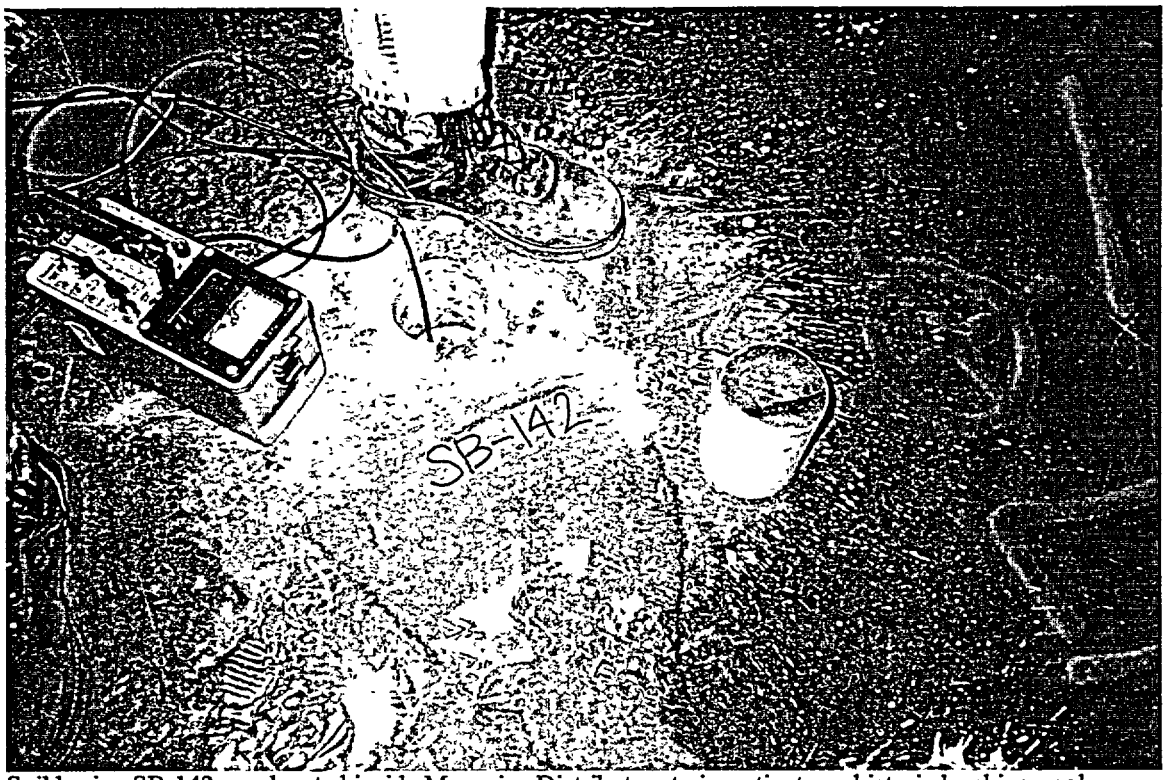
Soil boring SB-138 at the exterior of Magazine Distributors. This boring was installed at this location at the direction of and in consultation with NYSDEC.

Soil boring SB-139 was installed near the historic transformer pad on Magazine Distributors.

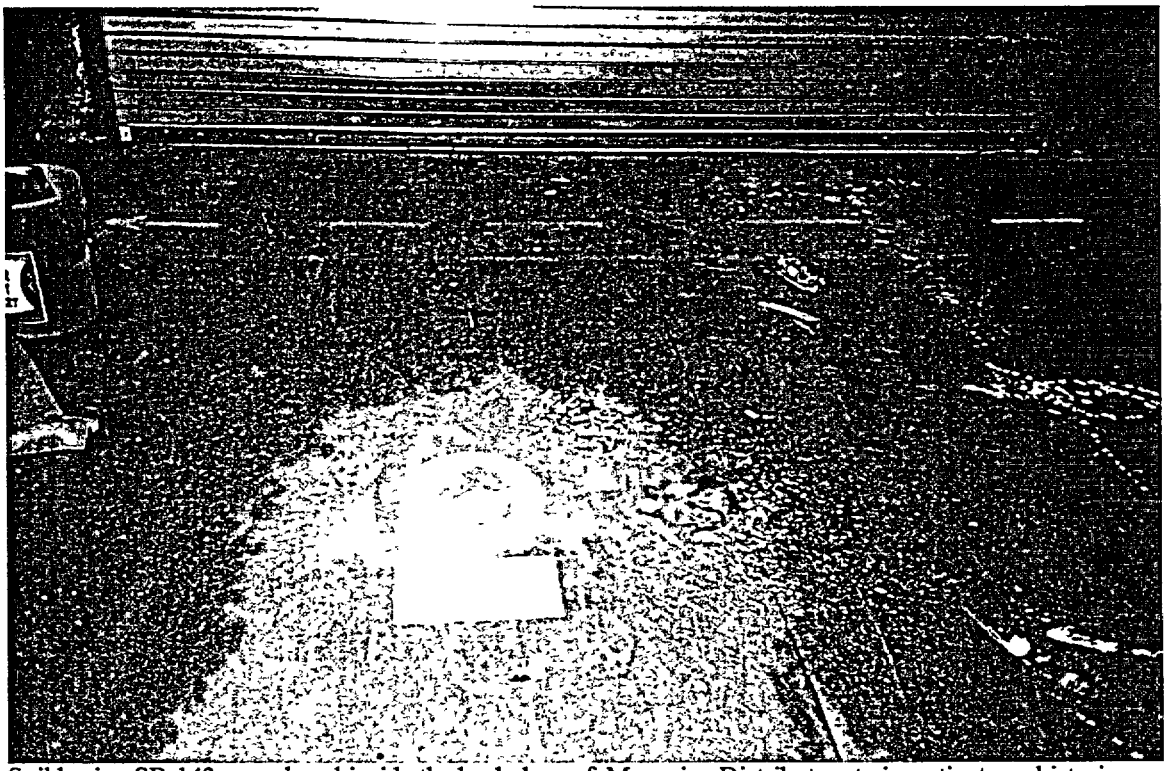
Soil boring SB-140 was installed near the historic transformer pad at Magazine Distributors.

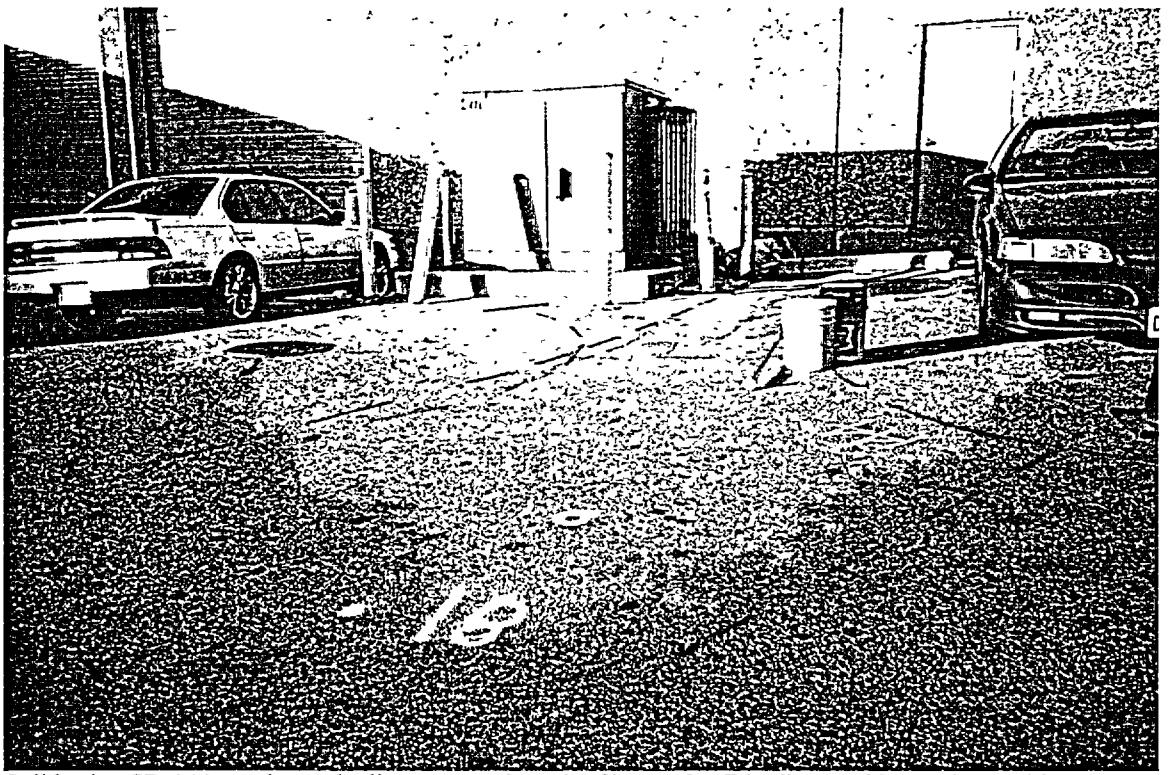


Soil boring SB-141 was installed inside Magazine Distributors to investigate an historic leaching pool.

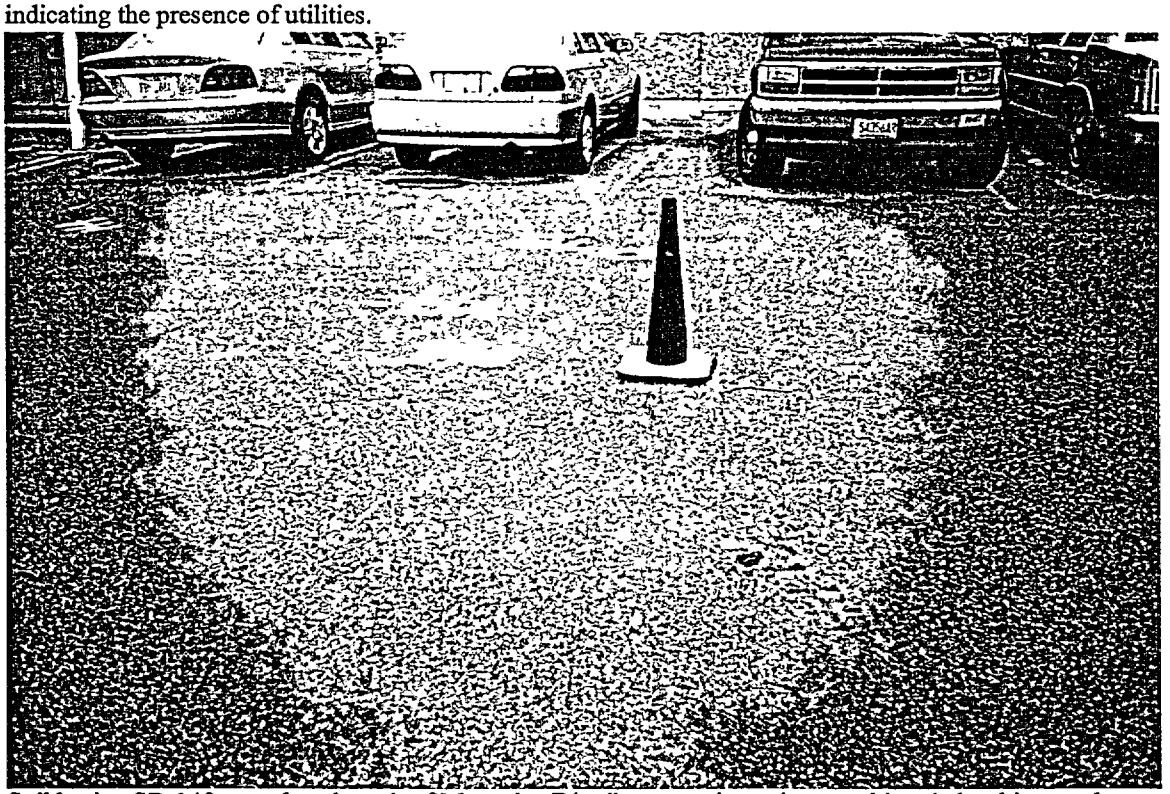


Soil boring SB-142 was located inside Magazine Distributors to investigate an historic leaching pool.

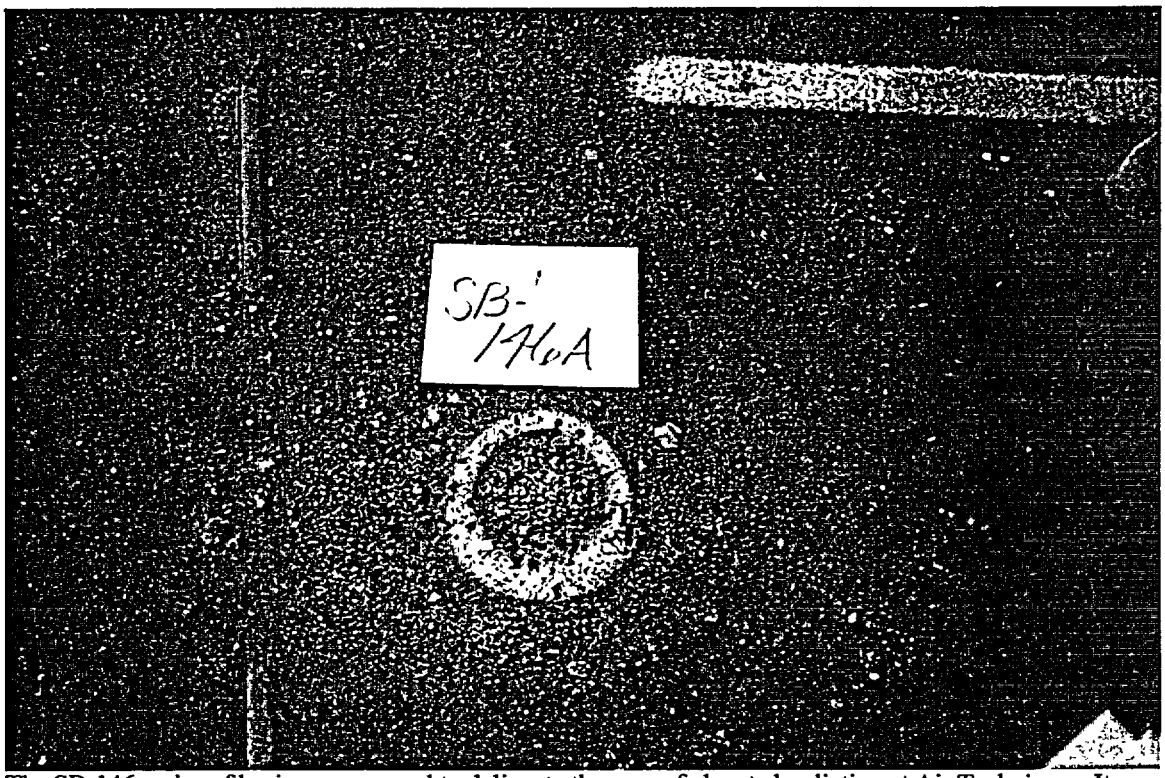

Soil boring SB-143 was placed inside the back door of Magazine Distributors to investigate an historic leaching pool.



Soil boring SB-144 was located adjacent to and south of Magazine Distributors. Note paint markings indicating the presence of utilities.



Soil boring SB-145 was placed south of Magazine Distributors to investigate an historic leaching pool.

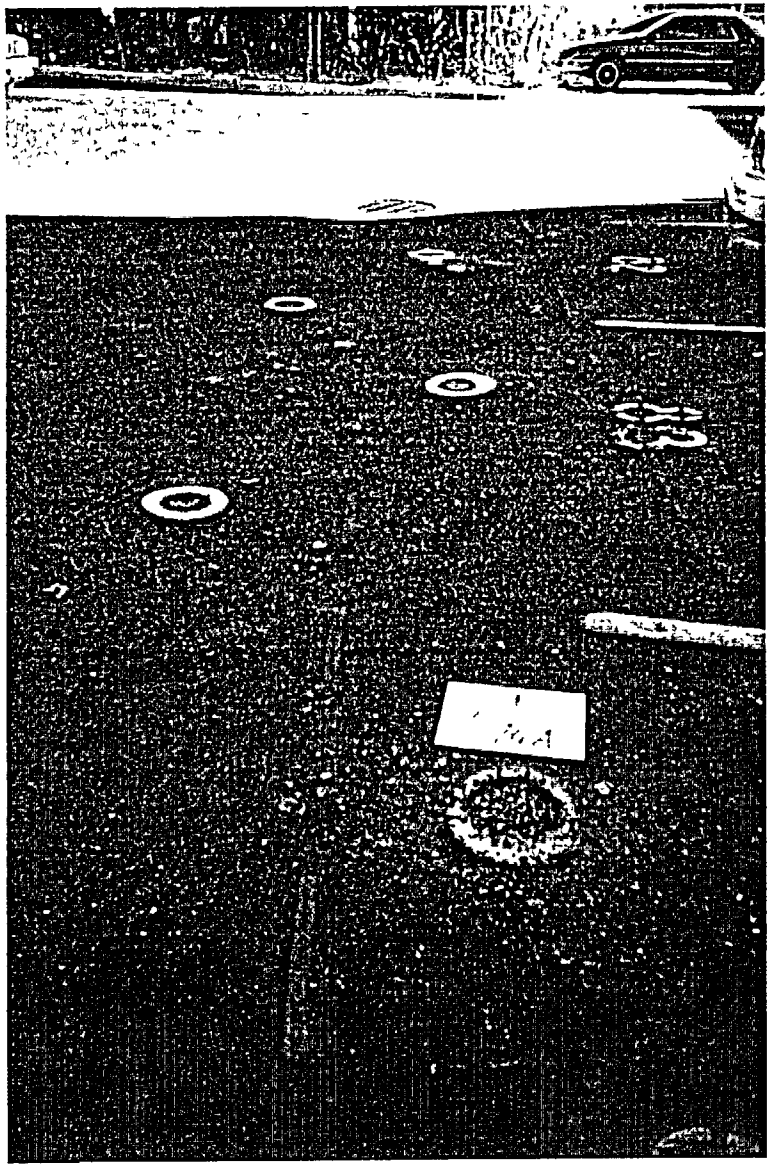


The SB-146 series of borings were used to delineate the area of elevated radiation at Air Techniques. It was determined that the elevated levels of radiation were associated with the asphalt. Photograph shows SB-146A.

SB-146B (Air Techniques).

SB-146C (Air Techniques).

Soil boring SB-147 was placed on Magazine Distributors to delineate near SB-083.

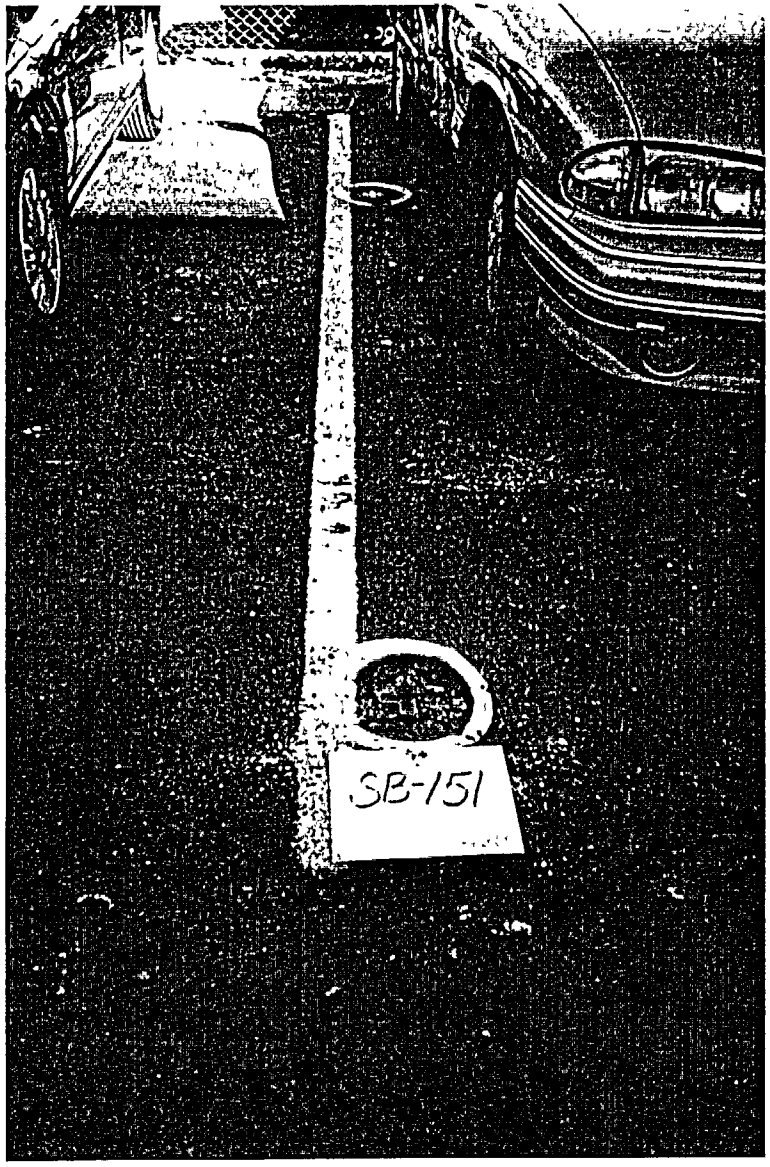


SB-146a - SB-146c along sewer line.

SB-150, on Air Techniques, was to delineate the area around SB-003

Soil boring SB-148 was advanced to investigate an anomalous area on Air Techniques.

Soil boring SB-149 was used to delineate the above background radioactivity found at SB-003.



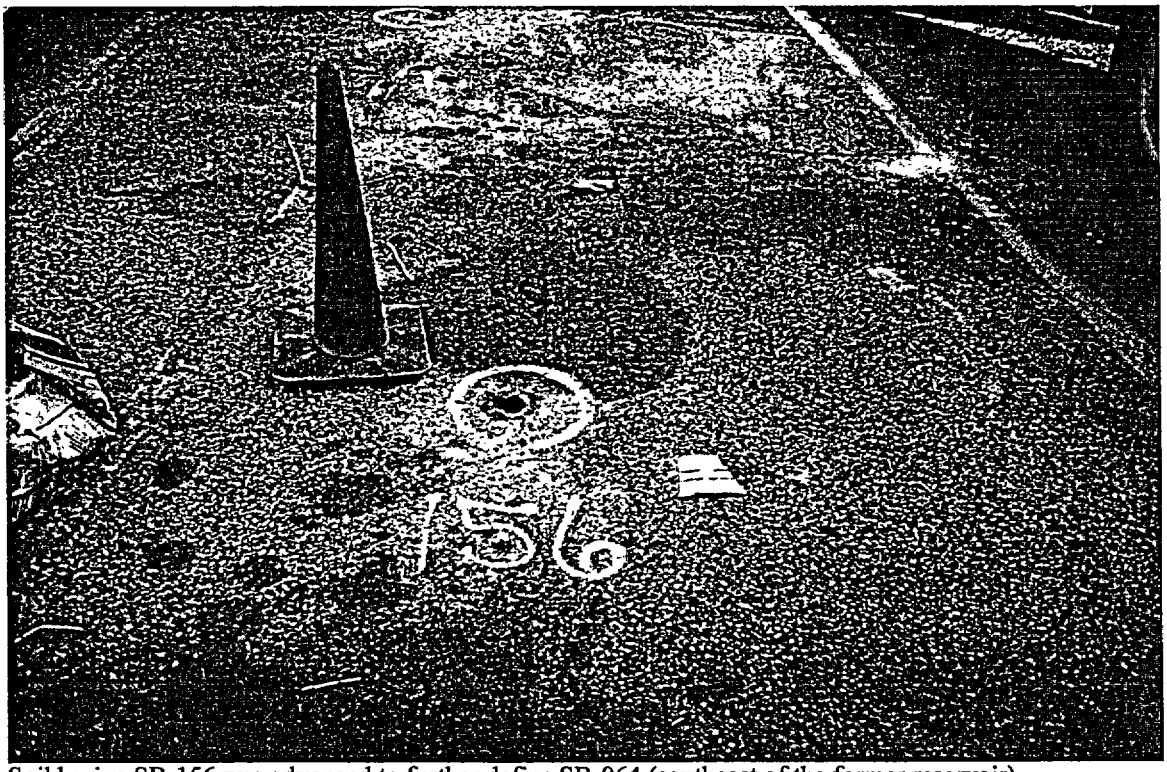
SB-151 was to delineate around SB-003 at Air Techniques.

SB-157 was located between SB-094 and SB-095 at the rear of Magazine Distributors.

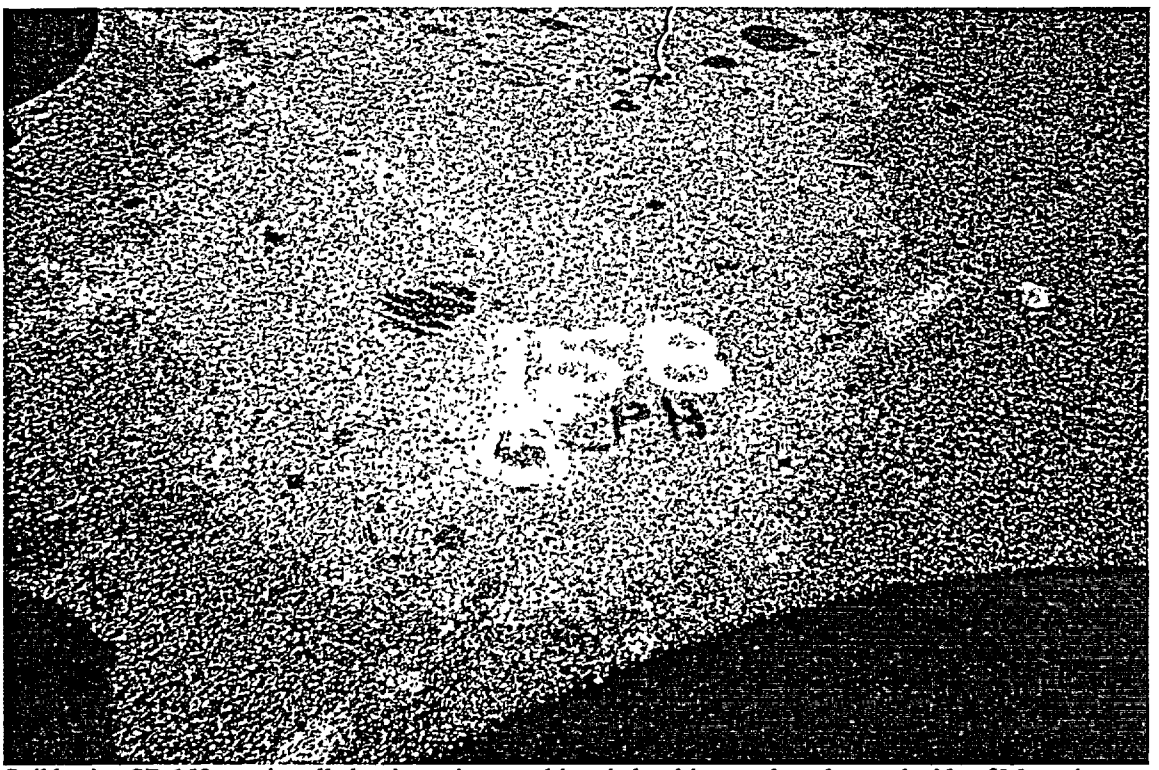
Soil boring SB-152 was located to delineate SB-003 at Air Techniques.

Soil boring SB-153 was located at Air Techniques (adjacent to Magazine Distributors) to investigate an area of surface radiation denoted by Jack Kadelecek, NYSDEC.

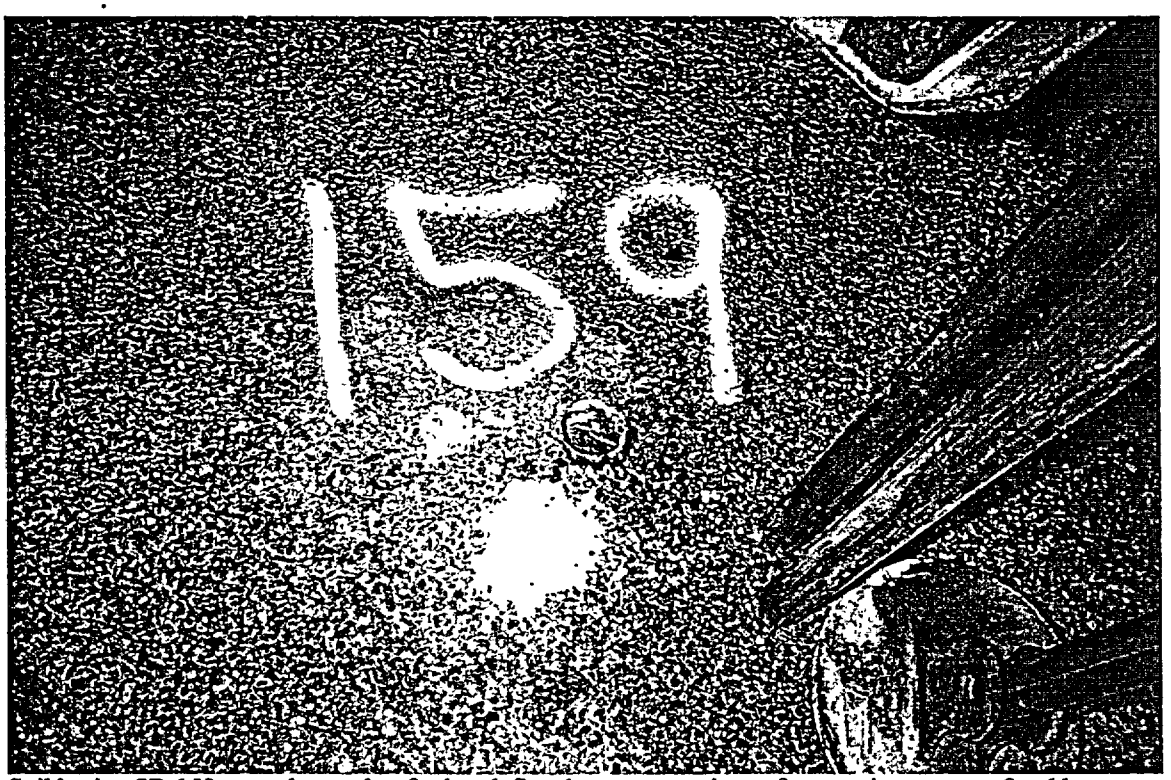
Soil boring SB-155 was advanced near SB-064 at the request of NYSDEC.



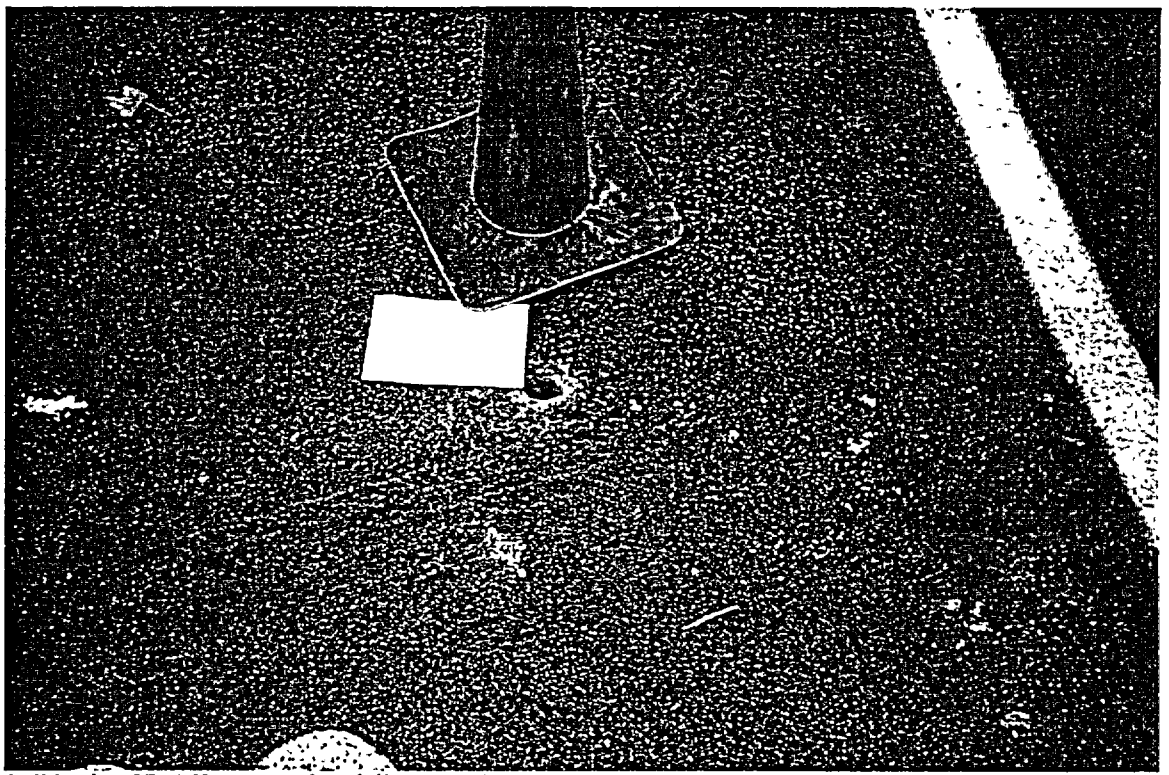
Soil boring SB-156 was advanced to further define SB-064 (southeast of the former reservoir).



Soil boring SB-158 was installed to investigate an historic leaching pool on the south side of Magazine Distributors.

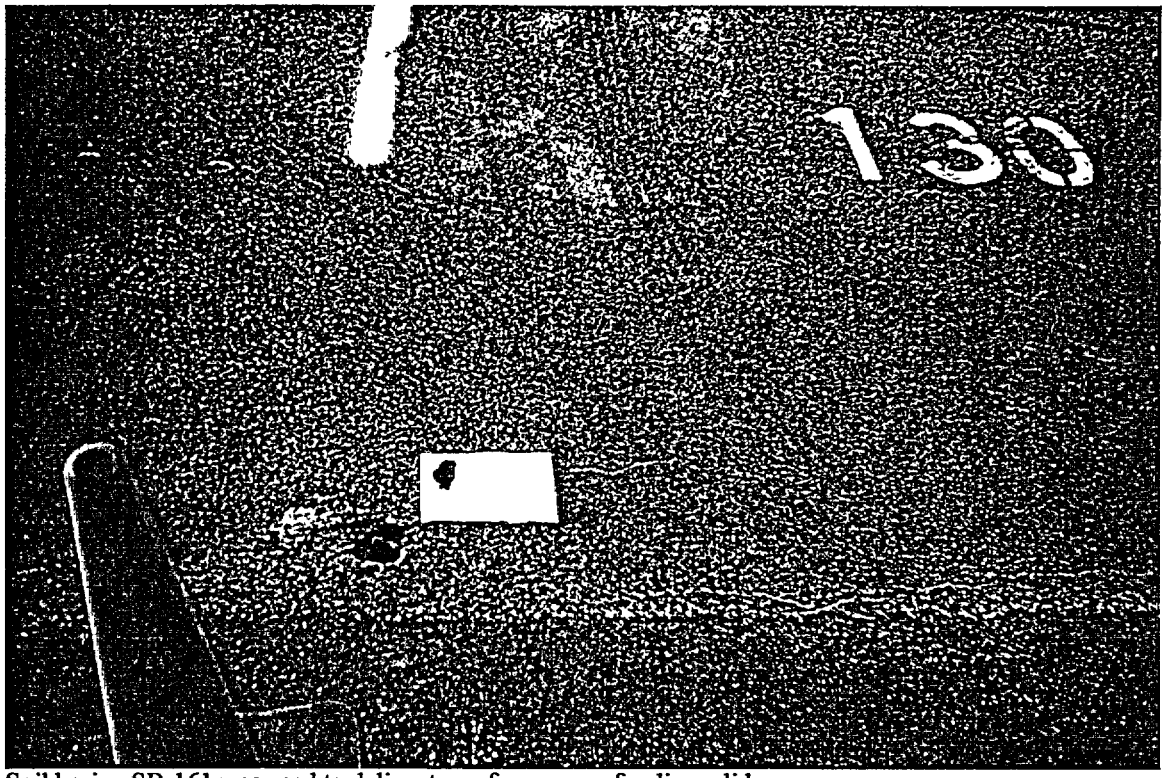


Soil boring SB-159 was advanced to further define the concentrations of contaminants east of and between SB-077 and SB-082.

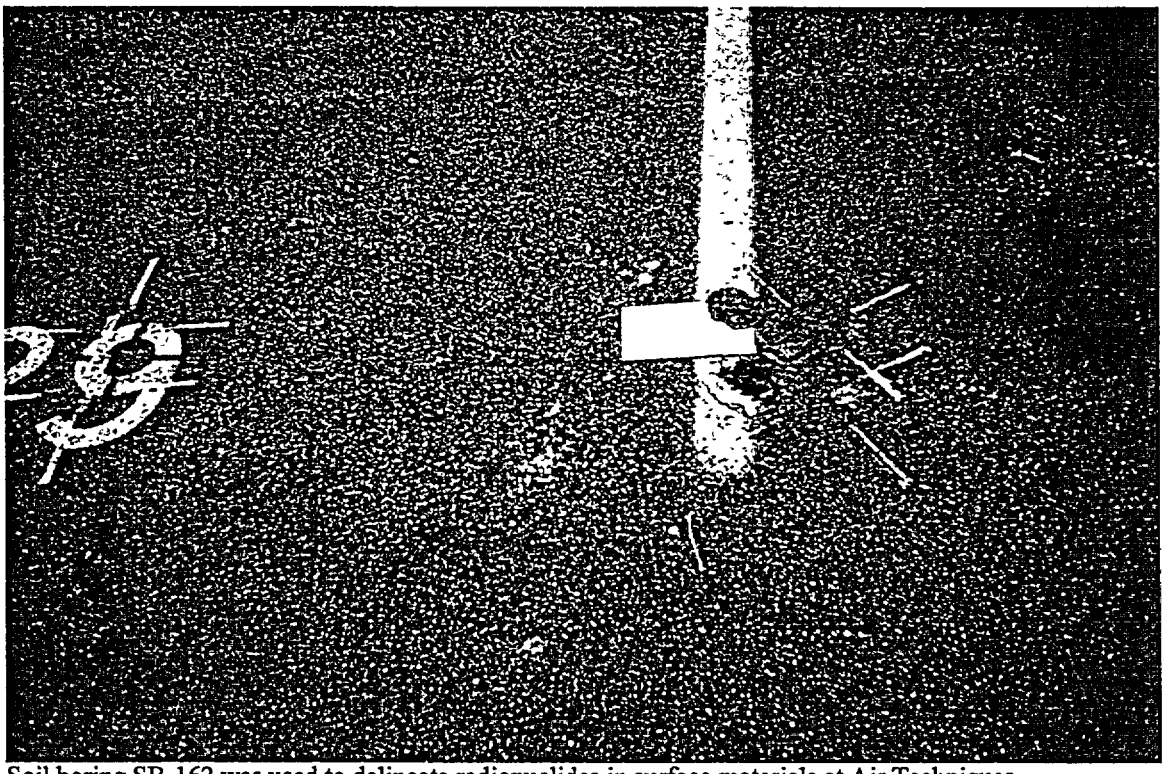


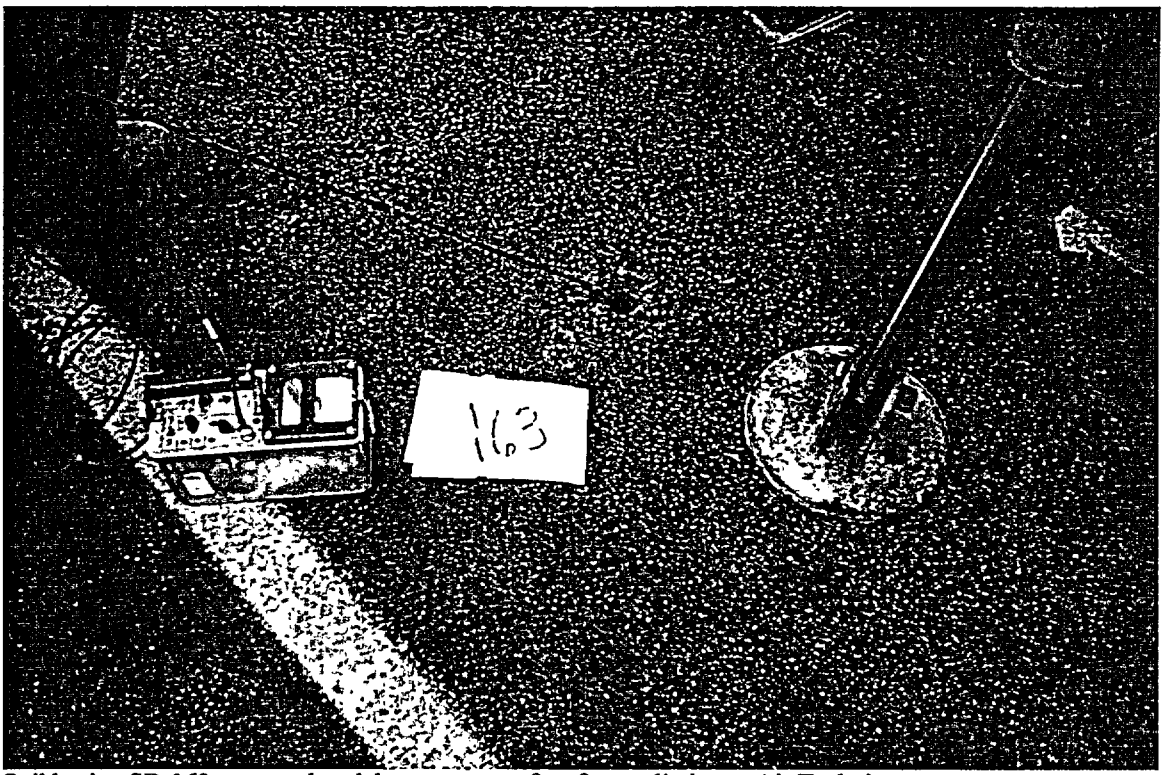
Soil boring SB-160 was used to delineate radioactivity near SB-003 at Air Techniques.

Soil borings SB-163, SB-164, and SB-165 were used to delineate radionuclides in surface materials at Air Techniques.

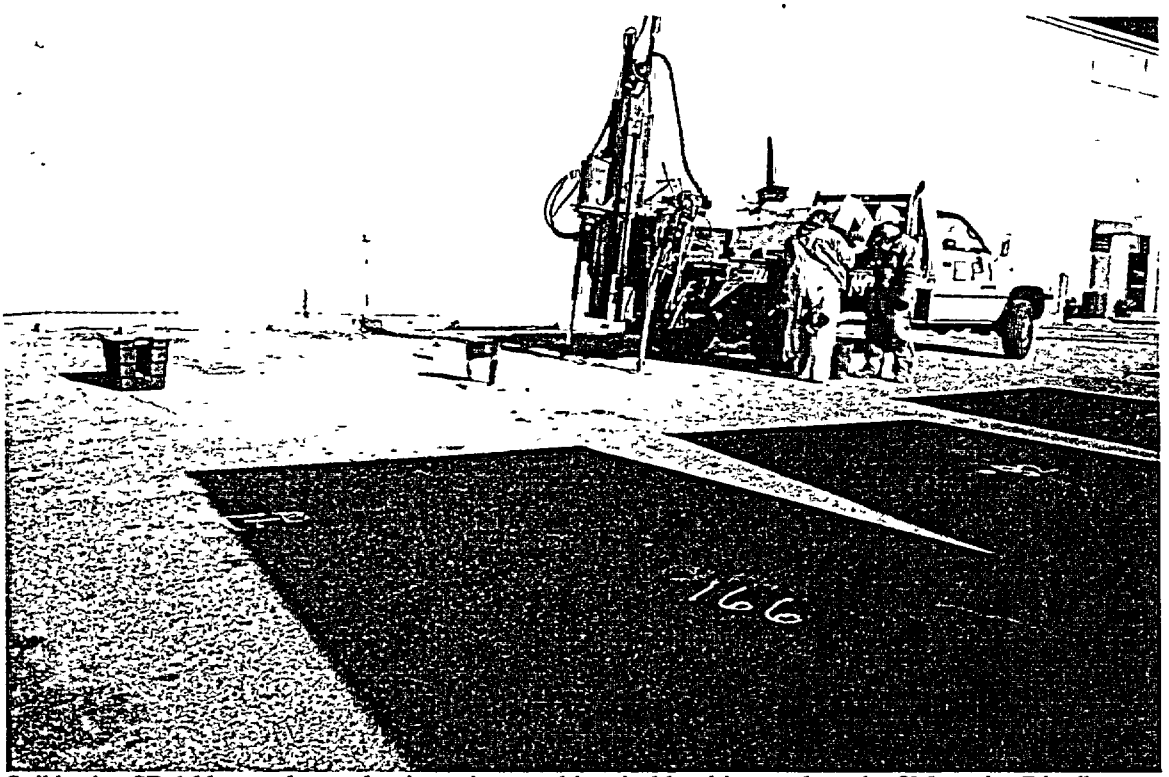


Soil boring SB-161 was used to delineate surface areas of radionuclides.

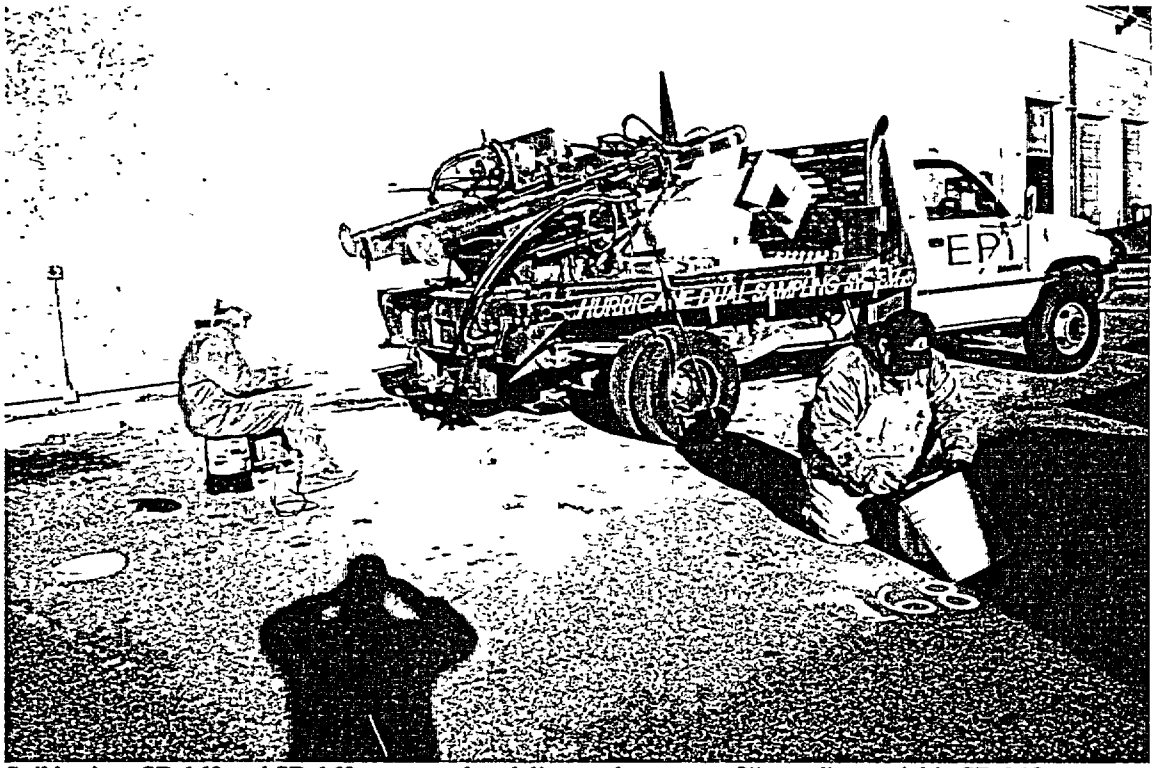

Soil boring SB-162 was used to delineate radionuclides in surface materials at Air Techniques.



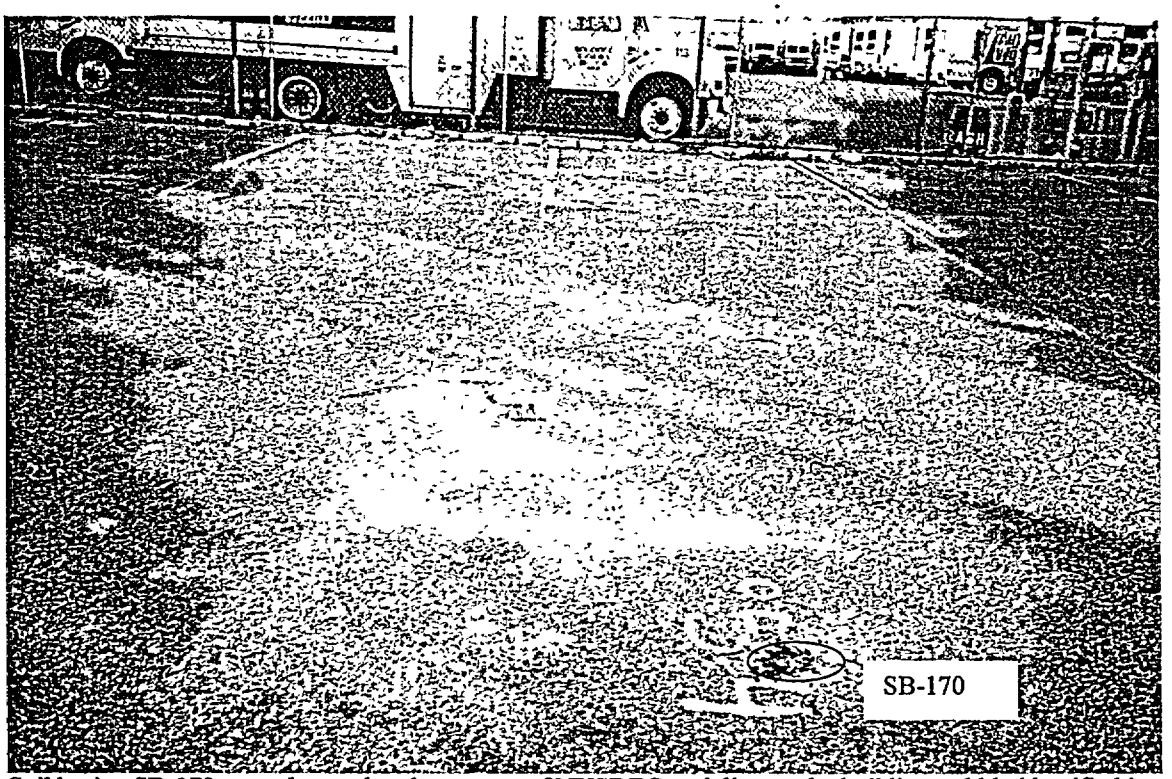
Soil boring SB-163 was used to delineate areas of surface radiation at Air Techniques.



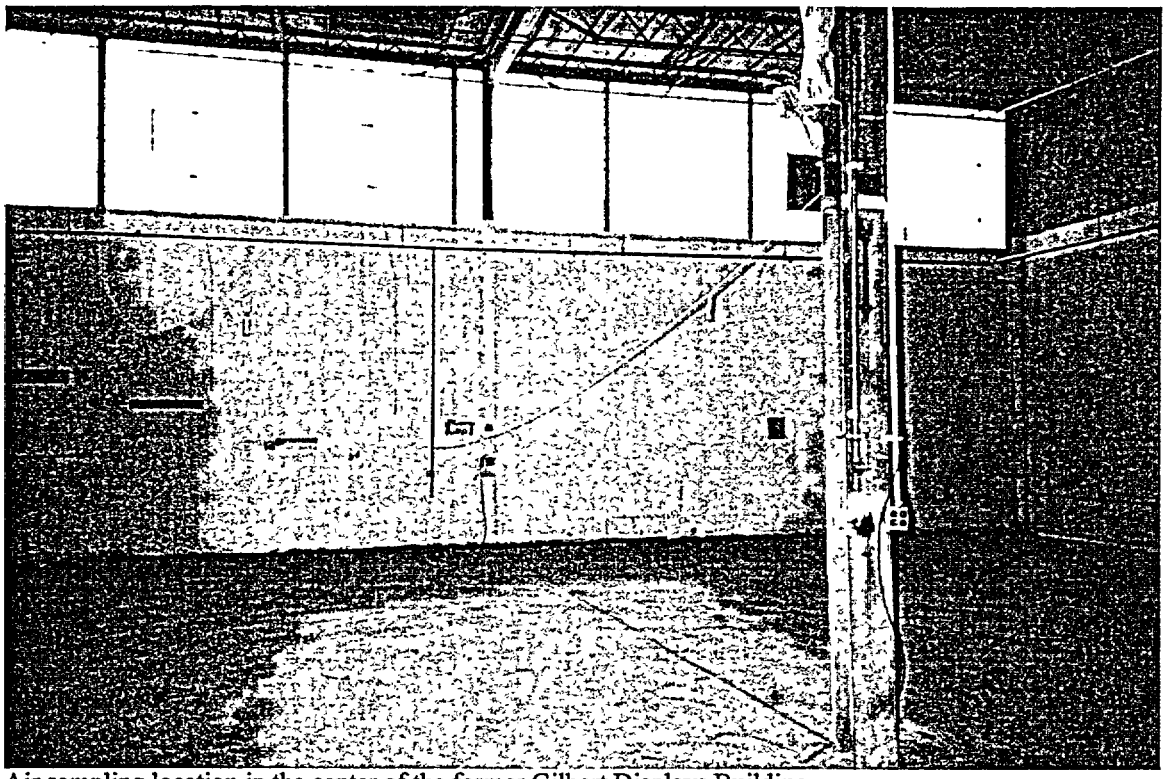
Soil boring SB-166 was advanced to investigate an historical leaching pool south of Magazine Distributors. Note air monitoring equipment housed in tote.



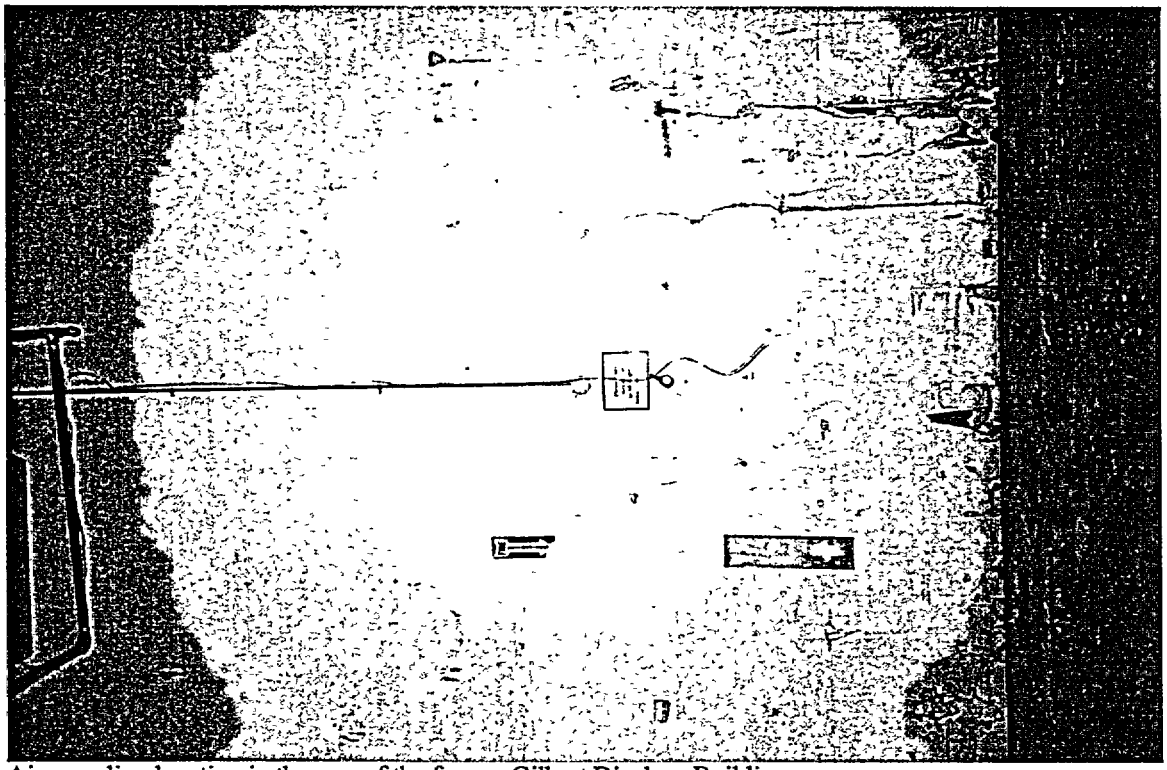
Soil borings SB-168 and SB-169 were used to delineate the extent of "green" material in SB-145.



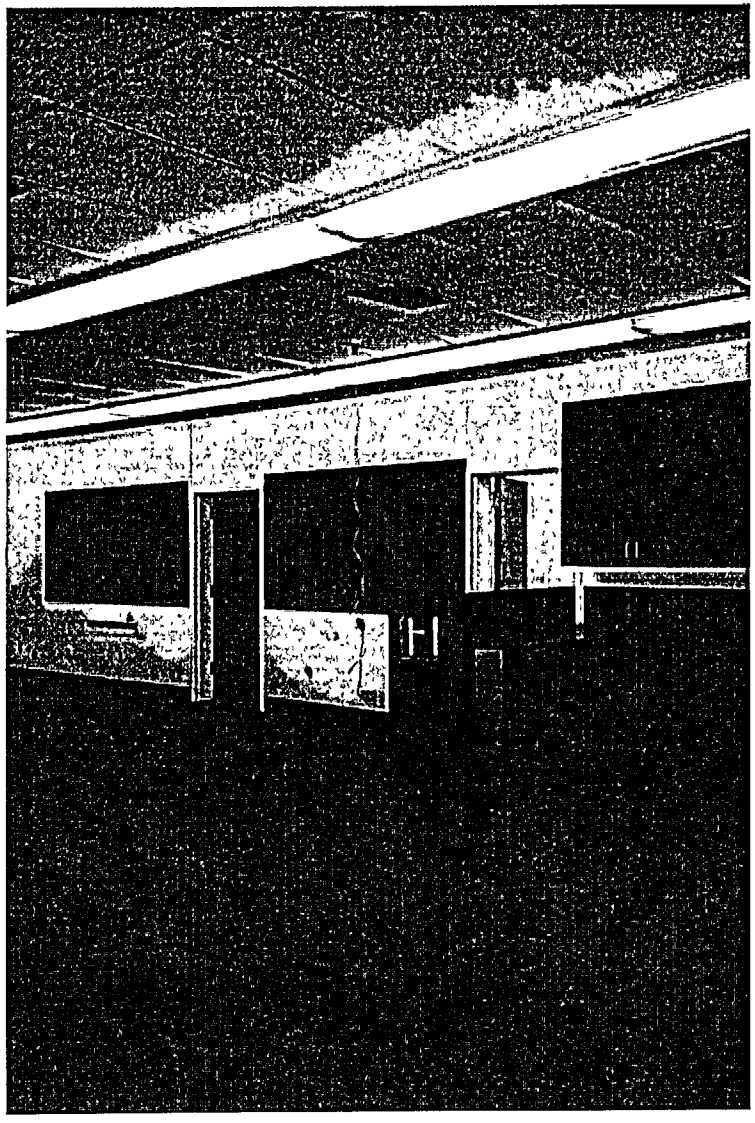
Soil boring SB-170 was advanced at the request of NYSDEC to delineate the building rubble identified in SB-054. There was no rubble identified in SB-170.



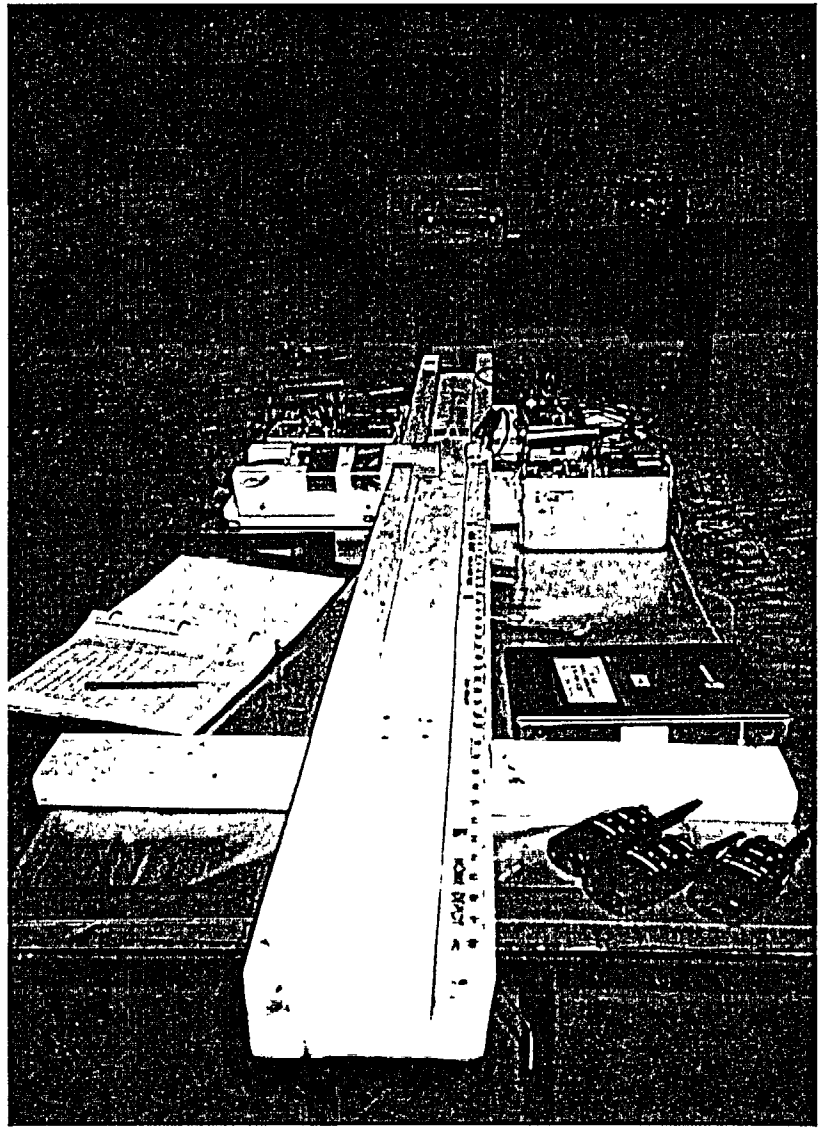
Air sampling location in the center of the former Gilbert Displays Building.



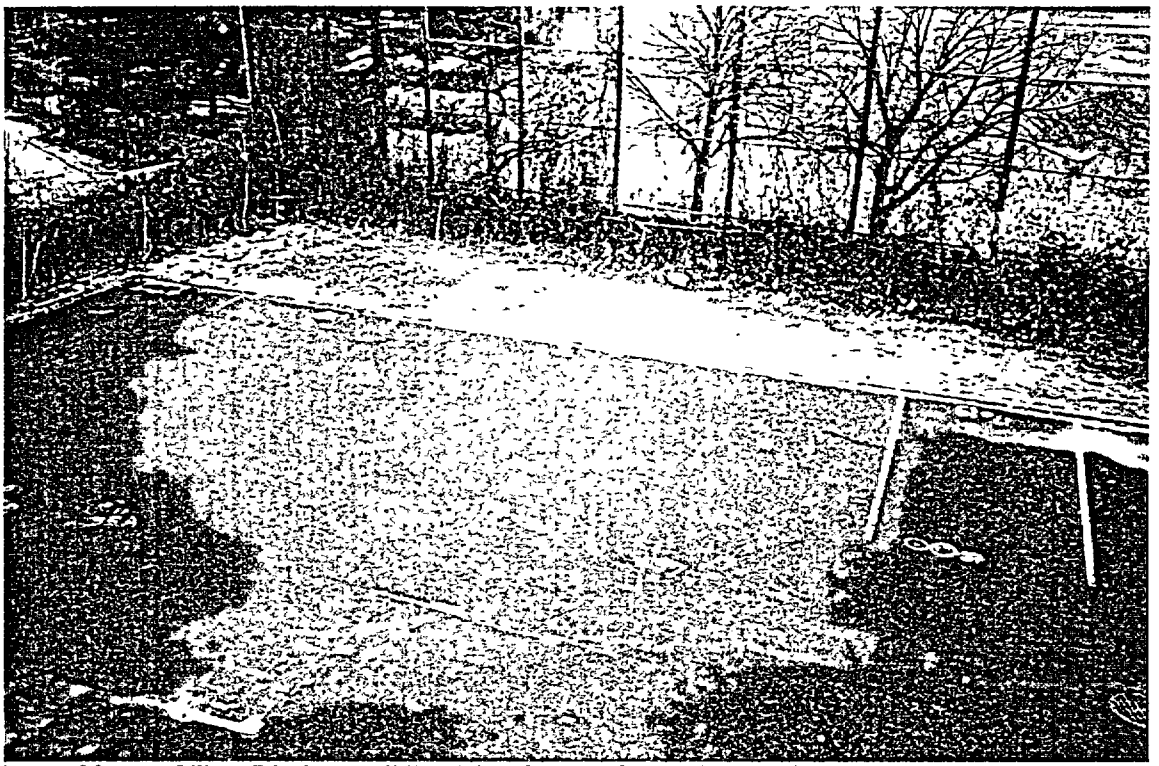
Air sampling location in the rear of the former Gilbert Displays Building.



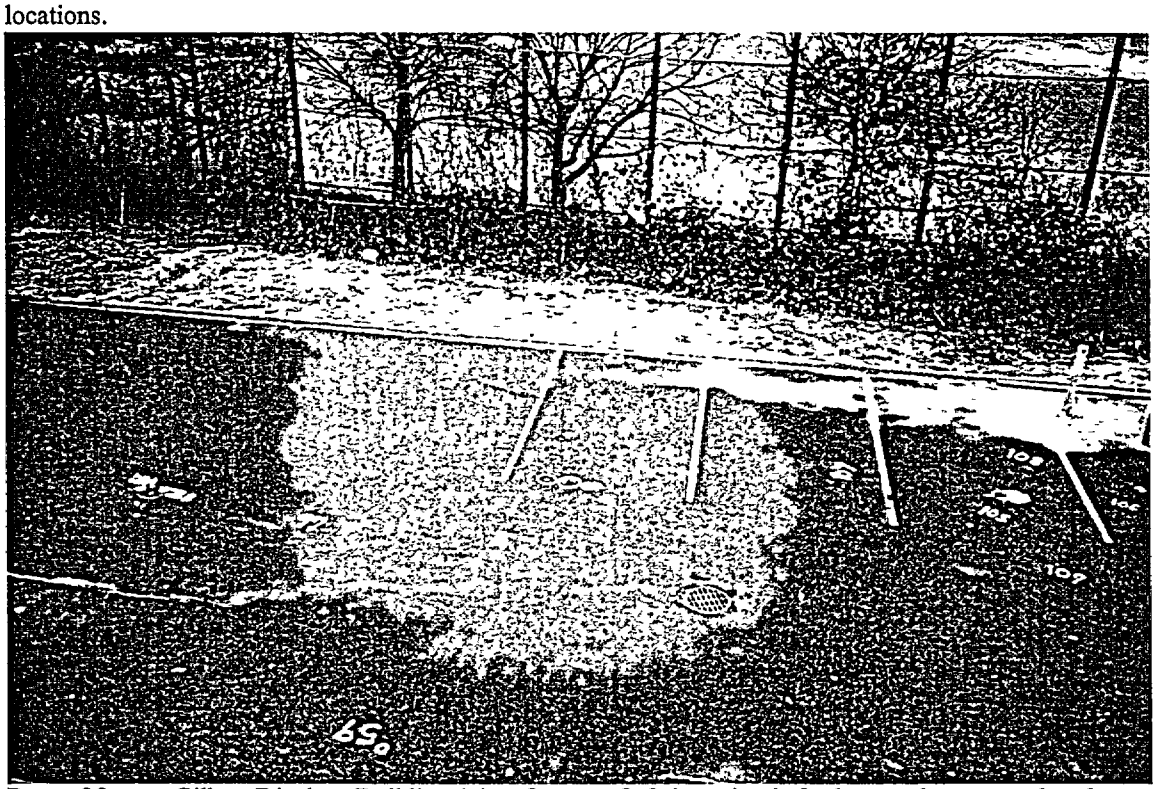
Air sample (front location) inside the former Gilbert Displays Building.



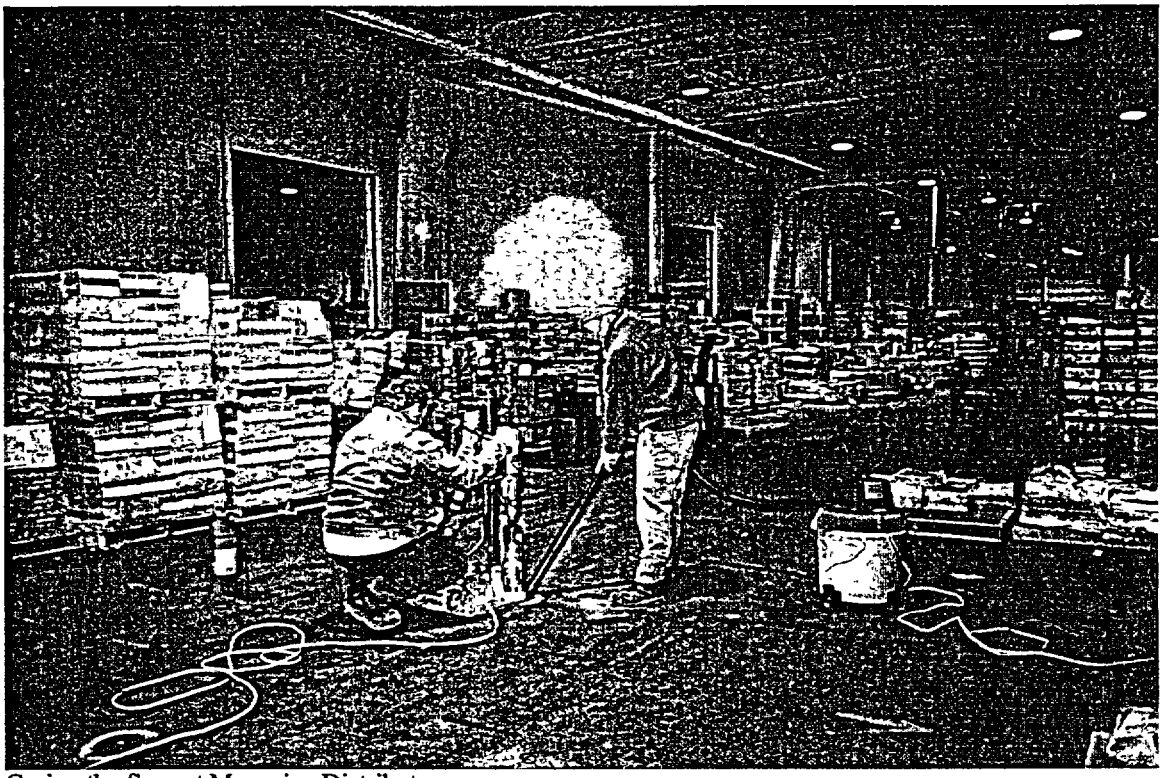
Equipment used to examine cores for radiation.



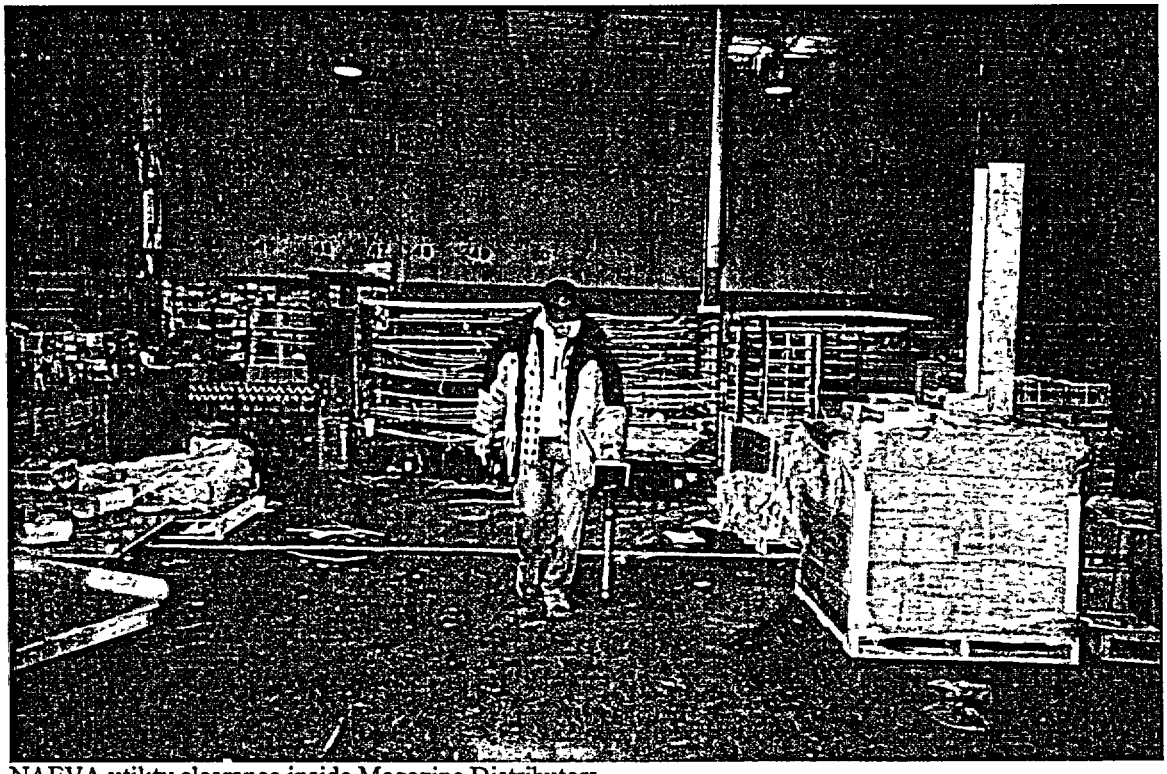
Rear of former Gilbert Displays Building (view from roof). Numbers marked on pavement denote boring locations.



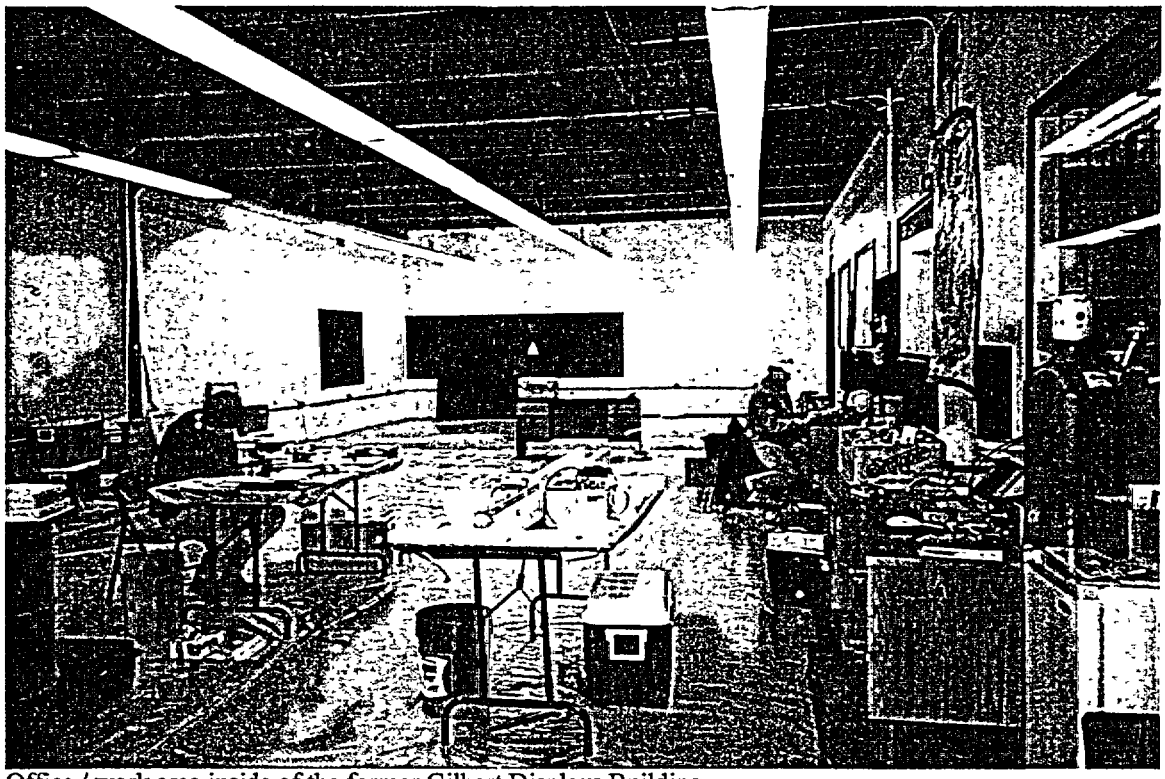
Rear of former Gilbert Displays Building (view from roof) Orientation is further south compared to the previous picture.



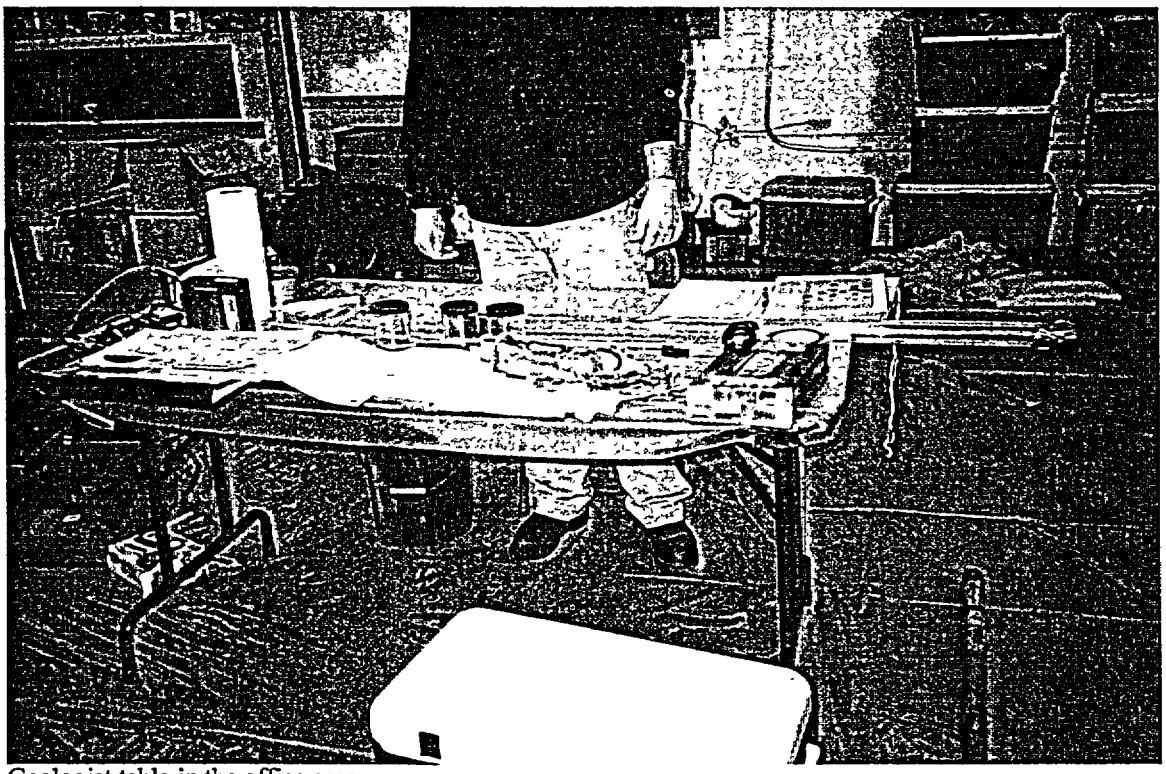
Coring the floor at Magazine Distributors.



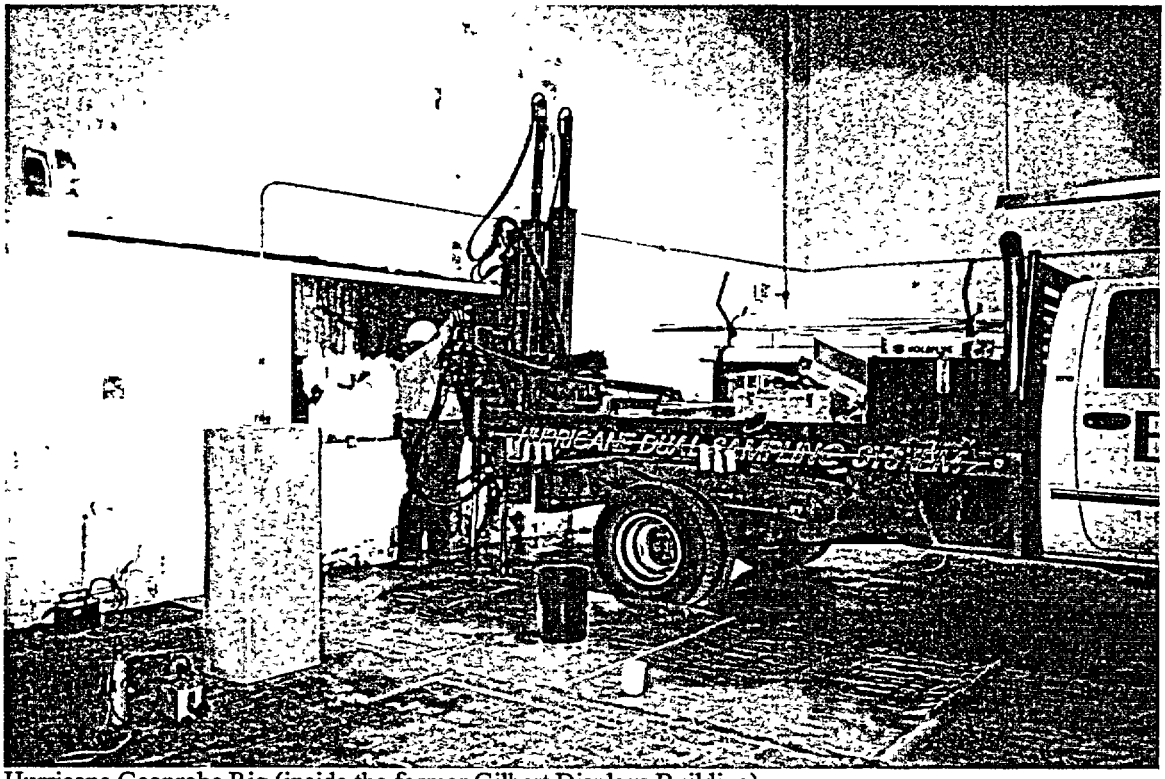
NAEVA utility clearance inside Magazine Distributors.



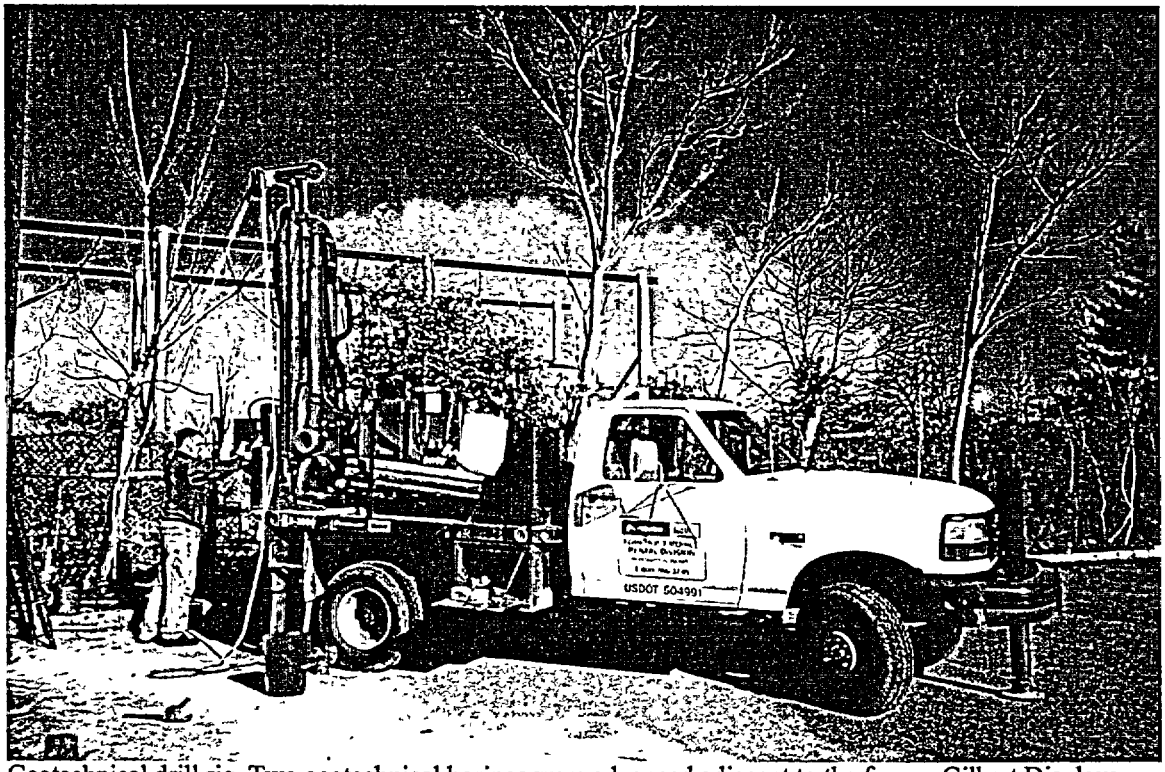
Office / work area inside of the former Gilbert Displays Building.



Geologist table in the office area.



Hurricane Geoprobe Rig (inside the former Gilbert Displays Building).



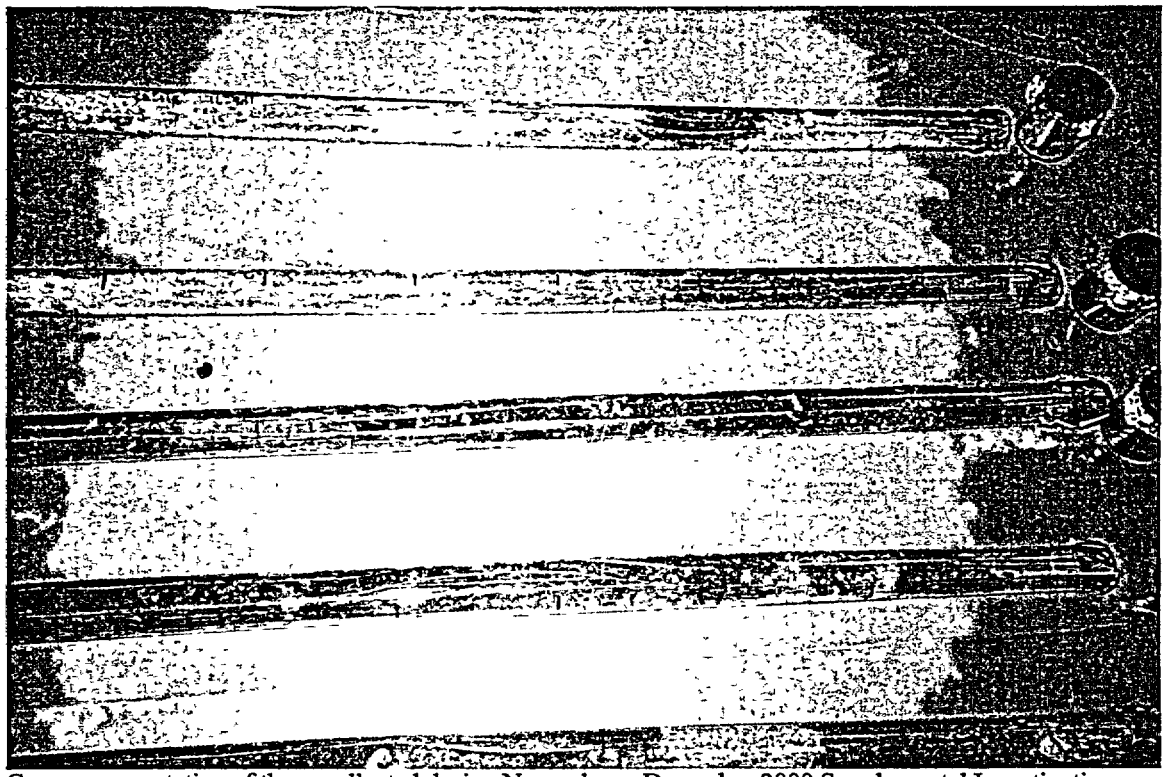
Geotechnical drill rig. Two geotechnical borings were advanced adjacent to the former Gilbert Displays Building. View of GT-1.

Downhole readings.

Pole with radiation in concrete. Area was bored and no radiation was detected.

Photograph shows field analyst using a Ludlum Model 19 to scan a core for radiation as it was extracted from the borehole.

"Green" sample obtained from boring SB-145 at Magazine Distributors.



Cores representative of those collected during November – December 2000 Supplemental Investigation.