SOURCE: U.S.G.S. 7.5 x 15 MINUTE TOPOGRAPHIC QUADRANGLE
BOSTON SOUTH, MASS. (1987)
SITE COORDINATES:
LAT: 42° 15' 10" N
LON: 71° 07' 13" W
ENVIRONMENTAL STRATEGIES & MANAGEMENT, INC.

SAMPLE COLLECTION INTERVALS

S - 0-6" bgs SURFACE SAMPLE
M - 3-10' bgs WATER TABLE *
D - 15' bgs BOTTOM

* M SAMPLE COLLECTION ALSO BASED ON PID AND VISUAL OBSERVATIONS OF IMPACT.

PROPERTY BOUNDARY (APPROXIMATE)
FENCE (APPROXIMATELY LOCATED)

SOIL BORING LOCATIONS
ES&M SAMPLING AREA I - UST AREA
ES&M SAMPLING AREA II - RIVERBANK AREA
ES&M SAMPLING AREA III - FILL AREA

BASE MAP SOURCES:
1) "PLAN OF LAND IN BOSTON, JOSEPH F. PAGE, SURVEYOR, OCTOBER 1974";
2) FIGURE 2, "SITE SHETON, LEWS CHEMICAL CORP."
3) CITY OF BOSTON ASSESSORS MAP

FLOW

NEPONSET RIVER

MBTA COMMUTER RAIL

FAIRMOUNT AVENUE

FAIRMOUNT COURT

UPPER GROUND WATER SAMPLE POINTS

ES&M SAMPLING AREA I - UST AREA
ES&M SAMPLING AREA II - RIVERBANK AREA
ES&M SAMPLING AREA III - FILL AREA

SCALE 0 40 80 FEET

0 0 0

SITE MAP - SOIL SAMPLING GRIDS
PHASE II - COMPREHENSIVE SITE ASSESSMENT

CLIENT
CITY OF BOSTON

LOCATION
12-24 FARHOMET COURT
HIDE PARK - BOSTON, MA

PROJECT NO.
AF 3-1056 2006-056

DRAWING SHEET: 01/31/07
SCALE: 1"=40' ON SITE

N/A

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PROPERTY BOUNDARY (APPROXIMATE)
FENCE (APPROXIMATELY LOCATED)
RAILROAD TRACKS
SURVEY BENCHMARK
(RIM OF MANHOLE COVER)

FLOW

GROUNDWATER MONITORING WELL
SOIL BORING LOCATIONS
TEST PIT SOIL SAMPLE LOCATION

BASE MAP SOURCES:
1) "PLAN OF LAND IN BOSTON, JOSEPH F. PAGE, SURVEYOR, OCTOBER 1974";
2) "SITE SKETCH, LEWIS CHEMICAL CORP";
3) CITY OF BOSTON ASSESSORS MAP

DEPTH, CONCENTRATION OF LEAD IN SOIL (mg/kg)
NS = SOIL SAMPLE NOT ANALYZED AT THIS DEPTH INTERVAL

0-6' 420

DETAILED SITE ASSESSMENT
BASE MAP SOURCES: 1) "PLAN OF LAND IN BOSTON, JOSEPH F. PAGE, SURVEYOR, OCTOBER 1974"; 2) FIGURE 2, "SITE SKETCH, LEWIS CHEMICAL CORP", 3) CITY OF BOSTON ASSESSORS MAP

0-0' 0.005 DEPTH, CONCENTRATION OF TRICHLOROETHENE (TCE) IN SOIL (mg/kg)

NS = SOIL SAMPLE NOT ANALYZED AT THIS DEPTH INTERNAL
12-13' 0.005 DEPTH, CONCENTRATION OF TRICHLOROETHENE (TCE) IN SOIL (mg/kg)
NS = SOIL SAMPLE NOT ANALYZED AT THIS DEPTH INTERVAL

BASE MAP SOURCES: 1) "PLAN OF LAND IN BOSTON, JOSEPH F. PAGE, SURVEYOR, OCTOBER 1874";
2) FIGURE 2, "SITE SKETCH, LEWIS CHEMICAL CORP."
3) CITY OF BOSTON ASSESSORS MAP

0 40 80
SCALE FEET
CONCENTRATION OF PCBs IN GROUNDWATER (ug/l)

ND = PCB AROCLORS NOT DETECTED ABOVE REPORTING LIMITS
NS = GROUNDWATER SAMPLE NOT COLLECTED AT THIS WELL

BASE MAP SOURCES:
1) PLAN OF LAND IN BOSTON, JOSEPH F. PAGE, SURVEYOR, OCTOBER 1974.
2) FIGURE 2, "SITE SKETCH, LOWE CHEMICAL CORP."
3) CITY OF BOSTON ASSESSORS MAP
GROUNDWATER MONITORING WELL
BEDROCK WELL COUPLETT
BEDROCK WELL
DEEP PIEZOMETER (~12')
SHALLOW PIEZOMETER (5')
TEMPORARY PIEZOMETER (<5')

PROPERTY BOUNDARY (APPROXIMATE)
FENCE (APPROXIMATELY LOCATED)
RAILROAD TRACKS
SURVEY BENCHMARK
(RIM OF MANHOLE COVER)
TRENCH DRAIN IN BASEMENT

25 CONCENTRATION OF TCE IN GROUNDWATER (ug/l)

BASE MAP SOURCES:
1) "PLAN OF LAND IN BOSTON, JOSEPH F. PAGE, SURVEYOR, OCTOBER 1974".
2) FIGURE 2, "SITE SKETCH, LEWIS CHEMICAL CORP".
3) CITY OF BOSTON ASSESSORS MAP

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GROWNDWATER CONCENTRATION MAP - TCE
PHASE III - COMPREHENSIVE SITE ASSESSMENT

CLIENT: CITY OF BOSTON - DEPT OF NEIGHBORHOOD DEVELOPMENT
LOC: 12-24 FAIRMOUNT COURT
PROJECT NO.: 2006-056

E: 1818
W: 10
H: 17
Groundwater Concentration Map - 1,1,1-TCA

25 CONCENTRATION OF 1,1,1-TCA IN GROUNDWATER (ug/l)

Property Boundary (Approximate)
Fence (Approximately Located)
Railroad Tracks
Survey Benchmark
(Rim of Manhole Cover)
Trench Drain in Basement

Base Map Sources:
1) "Plan of Land in Boston, Joseph F. Page, Surveyor, October 1874."
2) Figure 2, "Site Sketch, Lewis Chemical Corp."
3) City of Boston Assessors Map

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City of Boston - Dept of Neighborhood Development

Location: 12-24 Fairmount Court

Phase II Comprehensive Site Assessment

Sheet: 18

Drawn by: DH

IN-200504-18

City of Boston Assessors Map

Groundwater Monitoring Well
Bedrock Well Couplet
Bedrock Well
Deep Piezometer (~12')
Shallow Piezometer (5')
Temporary Piezometer (<5')

Flow
**SOIL GAS POINT**

- **ESW-1**: Groundwater Monitoring Well
- **ESW-58**: Bedrock Well Couplet
- **ESW-58**: Bedrock Well
- **P2-10**: Deep Piezometer (~12')
- **P2-05**: Shallow Piezometer (5')
- **P2-04**: Temporary Piezometer (<5')

**PROPERTY BOUNDARY (APPROXIMATE)**

**SCALE** 0 40 80

**SCALE FEET**

**FLOW**

**NEPONSET RIVER**

**MISTA COMMUTER RAIL**

**FAIRMOUNT AVENUE**

**FAIRMOUNT COURT**

**80,600 CONCENTRATION OF TOLUENE IN SOIL GAS (μg/m³)**

**BASE MAP SOURCES:**
1. "Plan of Land in Boston, Joseph F. Page, Surveyor, October '674".
2. Figure 2, "Site Sketch, Louis Chemical Corp".
3. City of Boston Assessors Map

**CLIENT:**
City of Boston - Dept of Neighborhood Development

**LOCATION:**
12-24 Fairmount Court
 Hyde Park - Boston, MA

**FIGURE:**
20
SOIL GAS POINT

- GROUNDWATER MONITORING WELL
- BEDROCK WELL COUPLER
- BEDROCK WELL
- DEEP PIEZOMETER (~12')
- SHALLOW PIEZOMETER (5')
- TEMPORARY PIEZOMETER (<5')

PROPERTY BOUNDARY (APPROXIMATE)
FENCE (APPROXIMATELY LOCATED)
RAILROAD TRACKS
SURVEY BENCHMARK (RIM OF MANHOLE COVER)
TRENCH DRAIN IN BASEMENT

80.600 CONCENTRATION OF TCE IN SOIL GAS (µg/m³)

BASE MAP SOURCES:
1. "PLAN OF LAND IN BOSTON, MASSACHUSETTS, OCTOBER 1874." 
2. FIGURE 2, "SITE SKETCH, Lewis Chemical Corp." 
3. CITY OF BOSTON ASSESSORS MAP
SOIL GAS POINT

- ESN-1: GROUNDWATER MONITORING WELL
- ESN-5: BEDROCK WELL COUPLLET
- ESN-6: BEDROCK WELL
- FZ-01: DEEP PIEZOMETER (~12')
- FZ-05: SHALLOW PIEZOMETER (5')
- FZ-04: TEMPORARY PIEZOMETER (<5')

PROPERTY BOUNDARY (APPROXIMATE)
FENCE (APPROXIMATELY LOCATED)
RAILROAD TRACKS
SURVEY BENCHMARK
(RIM OF MANHOLE COVER)
TRENCH DRAIN IN BASEMENT

FLOW

SOIL GAS CONCENTRATION MAP - 1,1,1-TCA
PHASE III - COMPREHENSIVE SITE ASSESSMENT

80,600 CONCENTRATION OF 1,1,1-TCA IN SOIL GAS (µg/m³)

BASE MAP SOURCES:
1) "Plan of Land in Boston," Joseph F. Page, Surveyor, October 1874.
2) Figure 2, "Site Sketch, Lewis Chemical Corp."
3) City of Boston Assessors Map
**Project: Former Lewis Chemical Property**

**Project Number:** 2006-056  
**Location:** 12-24 Fairmount Court  
**Title:** Figure 25 Cross Section (ESM-15 to PZ-2S)  
**Date:** 01/30/07

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**Former Lewis Chemical Property**  
**Project Number:** 2006-056  
**Location:** 12-24 Fairmount Court  
**Title:** Figure 25 Cross Section (ESM-15 to PZ-2S)  
**Date:** 01/30/07

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**Former Lewis Chemical Building**

**Silty Sand Layer?**  
Soil Data Not Available

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**Horizontal Flow**

**Direction**

**Vertical Flow**

**Direction**

**Packer Test**

**ESM-05B**  
TCE - 7,100  
TCA - 6,300  
PCE - 2,700

**ESM-05**  
TCE - 360,000  
TCA - 280,000  
PCE - 21,000

**ESM-15**  
TCE - 93,000  
TCA - 66,000  
PCE - 11,000

**PZ-02D**  
TCE - 62  
TCA - 1,500  
PCE - 53

**PZ-02S**  
TCE - 220  
TCA - 37,000  
PCE - 240

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**Soil Data Not Available**

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**Neponset River**  
Surface Elevation 84.12

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**Surface Elevation**

**84.12**

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**April 2006**

**TCE**

**April 2006**

**TCA**

**April 2006**

**PCE**

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**Environmental Strategies & Management**

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