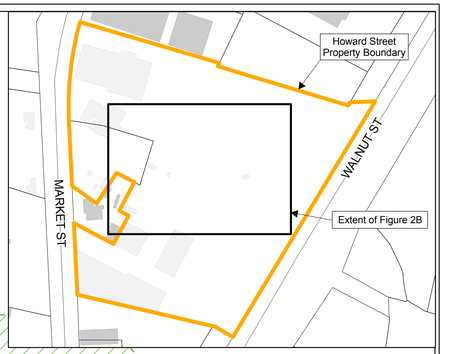



Legend

- 1.8 Total PCB Concentration (mg/Kg)
- ND PCBs Not Detected
- Soil Boring Location
- Soil Boring Location Where Soil Removed
- Test Pit Location
- Well Location
- Well Location Where Soil Removed
- Estimated PCB Distribution
- Existing Building
- Historic Building
- Howard Street Property Boundary

Excavation Depth (feet)

- 0-0.4
- 0-1
- 0-2
- 0-3
- 0-4
- 0-5
- 0-6
- 2-4

Note: Samples in gray indicate that no sample was collected at this depth or the sample was not analyzed for PCBs.

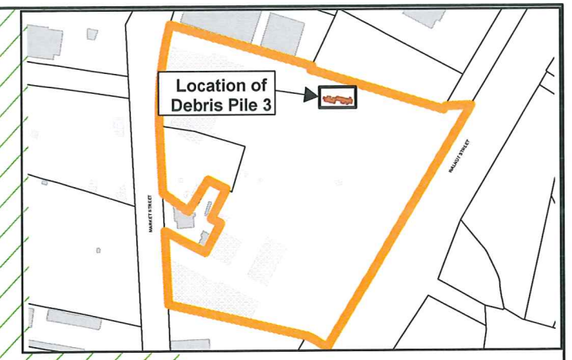
N:\Aerials and maps\Working GIS Files (Do Not Edit)\51 General Consulting\2\0985.26.51- PCB Mass Loading\pdf\Howard Street\mxds\howard street unsat fill.mxd

BrightFields, Inc.
Environmental Evaluation
Investigation, and Remediation
801 Industrial Street, Suite 1
Wilmington, Delaware 19801
302-656-9600
302-656-9700 fax

PCB Distribution in Subsurface Unsaturated Soil
Howard Street Property
Wilmington, Delaware

| | By | Date | Scale: | File Name: |
|---|---|---|---|---|
| Drawn | SMD | 11/4/08 | 1:180 | howard unsatfill.mxd |
| Checked | JPR | 11/4/08 | Fig. No. | |
| Project # | 0985.26.51 | | Figure 3B | |

15 7.5 0 Feet




PDWTP10/14
NE (0-2)

DB3-1 ND (0'-0.5')
DB3-2 0.12 (0'-0.5')
DB3-3 1.2 (0'-0.5')
DB3-4 1.44 (0'-0.5')
DB3-5 1.11 (0'-0.5')
DB3-6 1.1 (0'-0.5')
DB3-7 1.8 (0'-0.5')
DB3-8 0.94 (0'-0.5')
DB3-9 0.65 (0'-0.5')
DB3-10 1.7 (0'-0.5')
DB3-11 0.37 (0'-0.5')
DB3-12 0.44 (0'-0.5')
DB3-13 DB3-13-1 2.59 (0'-0.5')
DB3-14 ND (0'-0.5')
DB3-15 0.18 (0'-0.5')
DB3-16 0.63 (0'-0.5')
DB3-17 0.28 (0'-0.5')
DB3-18 ND (0'-0.5')
DB3-19 0.32 (0'-0.5')
DB3-20 ND (0'-0.5')
DB3-21 ND (0'-0.5')
DB3-22 1.6 (0'-0.5')
DB3-23 1.6 (0'-0.5')
DB3-24 0.43 (0'-0.5')
DB3-25 4.8 (0'-0.5')
DB3-26 11.3 (0'-0.5')
DB3-27 8.8 (0'-0.5')
DB3-28 3.2 (0'-0.5')
DB3-29 13.0 (0'-0.5')
DB3-30 23.8 (0'-0.5')
DB3-31 18.7 (0'-0.5')
DB3-32 DB3-32-2 ND (0'-0.5')
DB3-33 DB3-33-2 ND (0'-0.5')
DB3-34 DB3-34-2 ND (0'-0.5')
DB3-35 DB3-35-2 0.12 (0'-0.5')
DB3-36 DB3-36-2 0.52 (0'-0.5')
DB3-37 DB3-37-1 6.3 (0'-0.5')
DB3-38 DB3-38-1 0.8 (0'-0.5')
DB3-39 DB3-39-1 8.4 (0'-0.5')
DB3-40 16 (0'-0.5')
DB3-41 32.3 (0'-0.5') DB3-41-2 ND (1'-2')
DB3-42 DB3-42-1 ND (0'-0.5')
DB3-43 23.7 (0'-0.5')
DB3-44 DB3-44-2 0.71 (1'-2')
DB3-45 DB3-45-2 0.11 (1'-2') 27.6 (0'-0.5')
DB3-46 DB3-46-2 ND (0'-0.5')
DB3-47 DB3-47-2 0.2 (0'-0.5')
DB3-48 DB3-48-2 0.1 (0'-0.5')
DB3-49 DB3-49-2 0.49 (0'-0.5')
DB3-50 DB3-50-2 6.2 (0'-0.5')
DB3-51 DB3-51-1 14 (0'-0.5')
DB3-52 DB3-52-1 5.6 (0'-0.5')
DB3-53 DB3-53-1 2.9 (0'-0.5')
DB3-54 DB3-54-2 30.4 (0'-0.5') ND (1'-2')
DB3-55 DB3-55-1 0.3 (0'-0.5')
DB3-56 DB3-56-1 0.1 (0'-0.5')
DB3-57 DB3-57-1 ND (0'-0.5')
DB3-58 DB3-58-1 ND (0'-0.5')
DB3-59 DB3-59-1 ND (0'-0.5')
DB3-60 15.8 (0'-0.5')
DB3-61 8.38 (0'-0.5')
DB3-62 0.8 (0'-0.5')
DB3-63 DB3-63-2
DB3-64 DB3-64-2 4.5 (0'-0.5')
DB3-65 ND (0'-0.5')
DB3-66 DB3-66-1 8.3 (0'-0.5')
DB3-67 0.48 (0'-0.5')
DB3-68-1 0.9 (0'-0.5')
DB3-69-1 2.2 (0'-0.5')
DB3-70-1 0.21 (0'-0.5')
DB3-71-1 0.26 (0'-0.5')
DB3-72-1 0.12 (0'-0.5')
DB3-73-1 2.4 (0'-0.5')
DB3-74-1 0.75 (0'-0.5')
DB3-75-2 ND (1'-2')
DB3-76-2 ND (1'-2')

CLC-19
0.42 (0-1)
ND (1-2)

TP-2

Legend

- 0.62 Total PCB Concentration (mg/Kg)
- ND PCBs Not Detected
- Soil Boring Location
- Soil Boring Location Where Soil Removed
- Test Pit Location
- Debris Pile 3 Boundary
- Estimated PCB Distribution
- Howard Street Property Boundary
- Excavation Area

Note: Samples in gray indicate that no sample was collected from this depth or the sample was not analyzed for pcbs.

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PCB Distribution in Subsurface Unsaturated Soil
Debris Pile 3
Howard Street Property
Wilmington, Delaware

| | By | Date | Scale: | File Name: |
|---|---|---|---|---|
| Drawn | SMD | 11/4/08 | 1:84 | howard unsat c.mxd |
| Checked | JPR | 11/4/08 | Fig. No. Figure 3C | |
| Project # | 1106.50.52 | | | |

0 3.5 7 Feet

N:\Aerials and maps\Working GIS Files (Do Not Edit)\51 General Consulting\0985.26.51- PCB Mass Loading\Howard Street\mxds\howard street_unsat_c.mxd

GLR-2
ND
MW-9
HS-GP-1
ND
GLR-3
ND
GLR-1
ND
ND
GLR-4
ND
ND
HS-GP-2
ND
HS-GP-3
ND
CLC-23
ND
TT-1
PDWTP12
GLR-5
0.19
ND
See Figure 4C
TP-6
0.46
PDWTP10/14
(PDW) MW-1
GLR-6
ND
HS-GP-4
ND
CLC-22
ND
ND
PDWTP11
TP-1
GLR-7
ND
HS-GP-5
ND
TP-2
1.45
CLC-19
TP-5
HS-GP-7
1.85
CLC-20
HS-GP-06/HS-MW-1
HS-GP-8
ND
MW-6
PDCGP1
COW-1
0.12
ND
PDCGP3
PDCGP9
WALNUT STREET
GLR-8
ND
ND
PDCGP10
PDCGP4
PDCGP7
COW-3
ND
ND
MARKET STREET
HS-GP-13
ND
GLR-9
ND
ND
GP-1/GW-GP-1
HS-GP-16
ND
HS-GP-19/HS-MW-3
GP-4/GW-GP-4
See Figure 4B
HS-GP-14/HS-MW-2
GP-2/GW-GP-2
GLR-10
ND
ND
HS-GP-15
ND
HS-GP-20
ND
HS-GP-17
ND
GP-5
HS-GP-18
ND
GLR-11
ND
ND
HS-GP-21
ND

Legend

- 0.62 Total PCB Concentration (mg/Kg)
- ND PCBs Not Detected
- Soil Boring Location
- Soil Boring Location Where Soil Removed
- Test Pit Location
- Well Location
- Well Location Where Soil Removed
- Estimated PCB Distribution
- Existing Building
- Historic Building
- Tax Parcel
- Howard Street Property Boundary

Excavation Depth (feet)

- 0-0.4
- 0-1
- 0-2
- 0-3
- 0-4
- 0-5
- 0-6
- 2-4


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PCB Distribution in Subsurface Saturated Soil
Howard Street Property
Wilmington, Delaware

| | By | Date | Scale: | File Name: |
|---|---|---|---|---|
| Drawn | SMD | 5/20/09 | 1:1050 | howard sat a.mxd |
| Checked | JPR | 5/20/09 | Fig. No. Figure 4A | |
| Project # | 1106.50.52 | | | |

0 43.75 87.5 Feet

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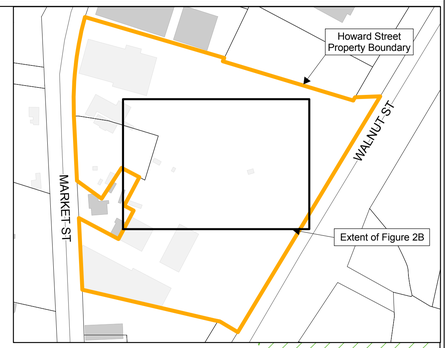


Legend

- 1.8 Total PCB Concentration (mg/Kg)
- ND PCBs Not Detected
- Soil Boring Location
- Soil Boring Location Where Soil Removed
- Test Pit Location
- Well Location
- Well Location Where Soil Removed
- Estimated PCB Distribution
- Existing Building
- Historic Building
- Howard Street Property Boundary

Excavation Depth (feet)

- 0-0.4
- 0-1
- 0-2
- 0-3
- 0-4
- 0-5
- 0-6
- 2-4

Note: Samples in gray indicate that no sample was collected at this depth or the sample was not analyzed for PCBs.

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PCB Distribution in Subsurface Saturated Soil
Howard Street Property
Wilmington, Delaware

| | By | Date | Scale: | File Name: |
|---|---|---|---|---|
| Drawn | SMD | 5/20/09 | 1:180 | howard satB.mxd |
| Checked | JPR | 5/20/09 | Fig. No. | |
| Project # | 0985.26.51 | | Figure 4B | |

15 7.5 0 Feet

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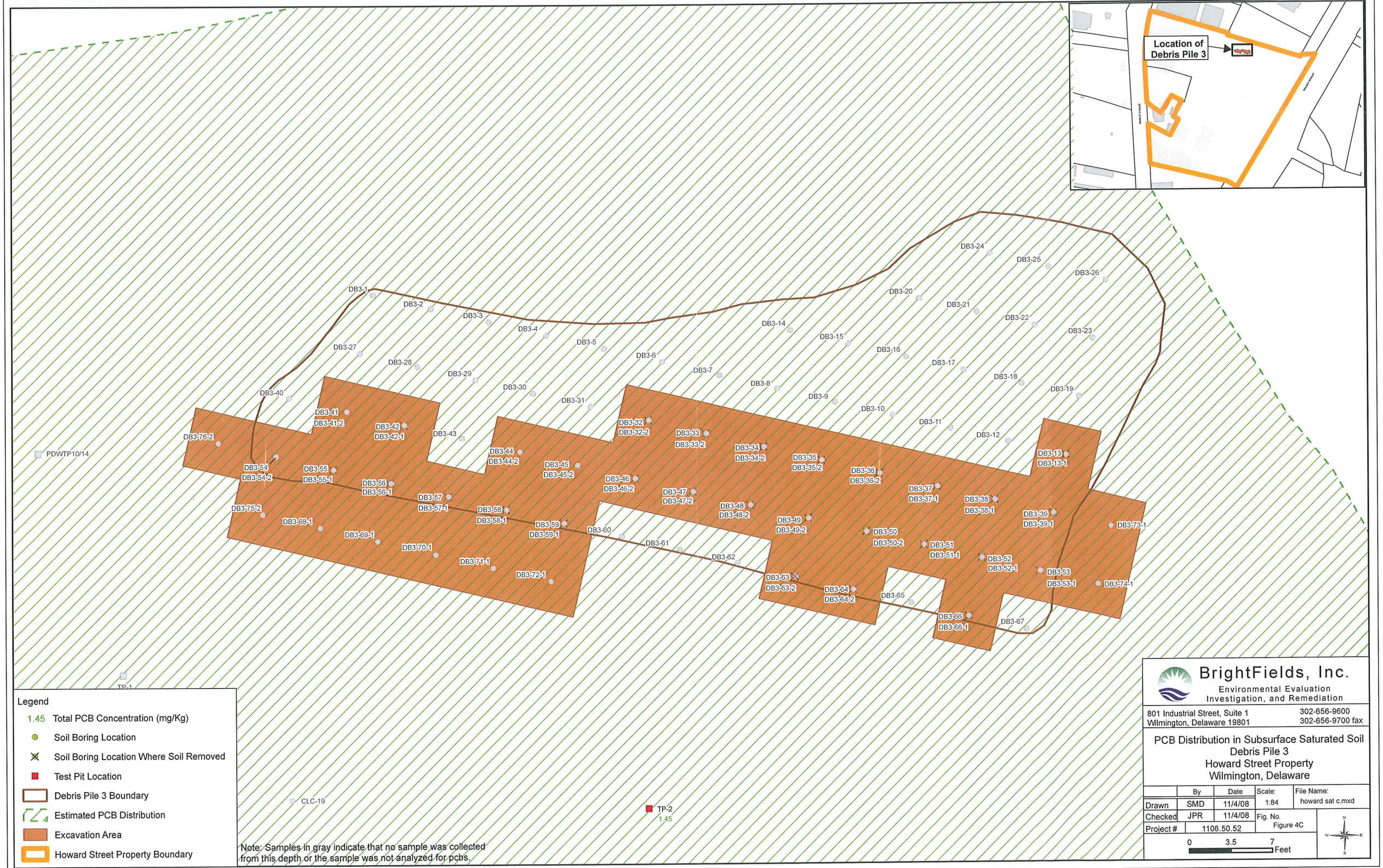


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302-656-9700 fax

PCB Distribution in Subsurface Saturated Soil
Debris Pile 3
Howard Street Property
Wilmington, Delaware

| | By | Date | Scale: | File Name: |
|---|---|---|---|---|
| Drawn | SMD | 11/4/08 | 1:84 | howard sat c.mxd |
| Checked | JPR | 11/4/08 | Fig. No. Figure 4C | |
| Project # | 1106.50.52 | | | |

0 3.5 7 Feet

N:\Aerials and maps\Working GIS Files (Do Not Edit)\51 General Consulting\0985.26.51- PCB Mass Loading\Howard Street\mxds\howard street_sat_c.mxd

| MW-9 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 4/20/05 | NA | ND (0.64 ug/L) |
| 12/6/06 | ND (0.1-0.5 ug/L) | ND (0.095-0.15 ug/L) |

| (PDW) MW-3 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 11/3/03 | NA | ND (0.50 ug/L) |
| 12/7/06 | ND (0.1-0.51 ug/L) | ND (0.096-0.15 ug/L) |
| 2/7/07 | NA | ND (0.48 ug/L) |

| (PDW) MW-1 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 11/3/03 | NA | ND (0.50 ug/L) |
| 12/7/06 | 0.89 ug/L | ND (0.096-0.15 ug/L) |
| 2/5/07 | ND (0.1-0.5 ug/L) | NA |
| 2/7/07 | NA | ND (0.48 ug/L) |
| 2/20/07* | ND (0.1-0.5 ug/L) | ND (0.096 ug/L) |

| (PDW) MW-5 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 11/3/03 | NA | ND (0.50 ug/L) |

| HS-MW-1* | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 12/6/06 | ND (0.1-0.5 ug/L) | 0.56 ug/L |

| MW-6 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 4/20/05 | NA | ND (0.61 ug/L) |
| 12/6/06 | ND (0.1-0.5 ug/L) | ND (0.096-0.15 ug/L) |

| (PDW) MW-2 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 11/3/03 | NA | ND (0.50 ug/L) |
| 12/7/06 | ND (0.1-0.51 ug/L) | ND (0.096-0.15 ug/L) |
| 2/7/07 | NA | ND (0.48 ug/L) |

| PDC-MW-4 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 11/3/03 | NA | ND (0.50 ug/L) |
| 12/6/06 | ND (0.1-0.5 ug/L) | ND (0.097-0.15 ug/L) |

| SWA-MW-8 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 8/21/95 | NA | ND |

| MW-8 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 4/20/05 | NA | ND (0.56 ug/L) |
| 12/6/06 | ND (0.1-0.51 ug/L) | ND (0.096-0.15 ug/L) |

| HS-MW-5 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 2/5/07 | ND (0.1-0.5 ug/L) | ND (0.097-0.15 ug/L) |

| GW-GP-1 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 6/5/06 | NA | ND (0.53 ug/L) |

| MW-7 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 4/20/05 | NA | ND (0.60 ug/L) |

| HS-MW-4 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 2/5/07 | 0.038 J | 0.68 ug/L |
| 2/20/07 | 0.926 ug/L | 2.6 ug/L |

| HS-MW-6 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 2/5/07 | ND (0.1-0.5 ug/L) | ND (0.096-0.15 ug/L) |
| 2/20/07 | ND (0.1-0.5 ug/L) | ND (0.095 ug/L) |

| HS-MW-2 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 1/31/07 | ND | ND (0.096-0.15 ug/L) |
| 2/5/07 | ND (0.1-0.5 ug/L) | NA |

| GW-GP-4 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 6/5/06 | NA | ND (0.53 ug/L) |

| GW-GP-2 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 6/5/06 | NA | ND (0.51 ug/L) |

| HS-MW-3 | | |
|---|---|---|
| Date | Total PCBs by EPA 680 | Total PCBs by EPA 8082 |
| 1/31/07 | ND | ND (0.096-0.15 ug/L) |
| 2/5/07 | ND (0.1-0.5 ug/L) | NA |

HOWARD STREET

MARKET STREET

WALNUT STREET

Legend

- 0.56 Total PCB Concentration (ug/L)
- ND PCBs Not Detected
- Well Location
- Estimated PCB Distribution
- Existing Building
- Historic Building
- Tax Parcel
- Howard Street Property Boundary


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302-656-9700 fax


PCB Distribution in Groundwater
Howard Street Property
Wilmington, Delaware

| | By | Date | Scale: | File Name: |
|---|---|---|---|---|
| Drawn | SMD | 10/2/08 | 1:1050 | howard gw.mxd |
| Checked | JPR | 10/2/08 | Fig. No. Figure 5 | |
| Project # | 1106.50.52 | | | |

0 43.75 87.5 Feet

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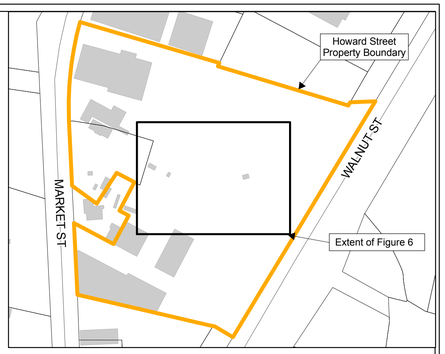


FORMER HOWARD STREET

Area A
30'

Area B
90'

Area C
85'

Legend

- 1.8 Total PCB Concentration (mg/Kg)
- ND PCBs Not Detected
- Groundwater Flow Direction
- 25 Groundwater Discharge Distance (feet)
- Removed Soil Boring, PCBs= ND
- Soil Boring, PCBs= ND
- Test Pit, PCBs= ND
- Soil Boring, PCBs <1 mg/Kg
- Test Pit, PCBs <1 mg/Kg
- Soil Boring, PCBs ≥1 <10 mg/Kg
- Test Pit, PCBs ≥1 <10 mg/Kg
- Removed Soil Boring, PCBs ≥10 mg/Kg
- Soil Boring, PCBs ≥10 mg/Kg
- Howard Street Property Boundary
- Estimated PCB Distribution
- Existing Building
- Historic Building

Note: Samples in gray indicate that no sample was collected at this depth or the sample was not analyzed for PCBs.

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Wilmington, Delaware 19801
302-656-9600
302-656-9700 fax

Groundwater Discharge Map
Howard Street Property
Wilmington, Delaware

| | By | Date | Scale: | File Name: |
|---|---|---|---|---|
| Drawn | SMD | 5/19/09 | 1:150 | howard gw dis.mxd |
| Checked | JPR | 5/19/09 | Fig. No. | |
| Project # | 0985.26.51 | | Figure 6 | |

12.5 6.25 0 Feet

N:\Aerials and maps\Working GIS Files (Do Not Edit)\51 General Consulting\0985.26.51--PCB Mass Loading\Howard Street\mxds\howard street gw discharge.mxd