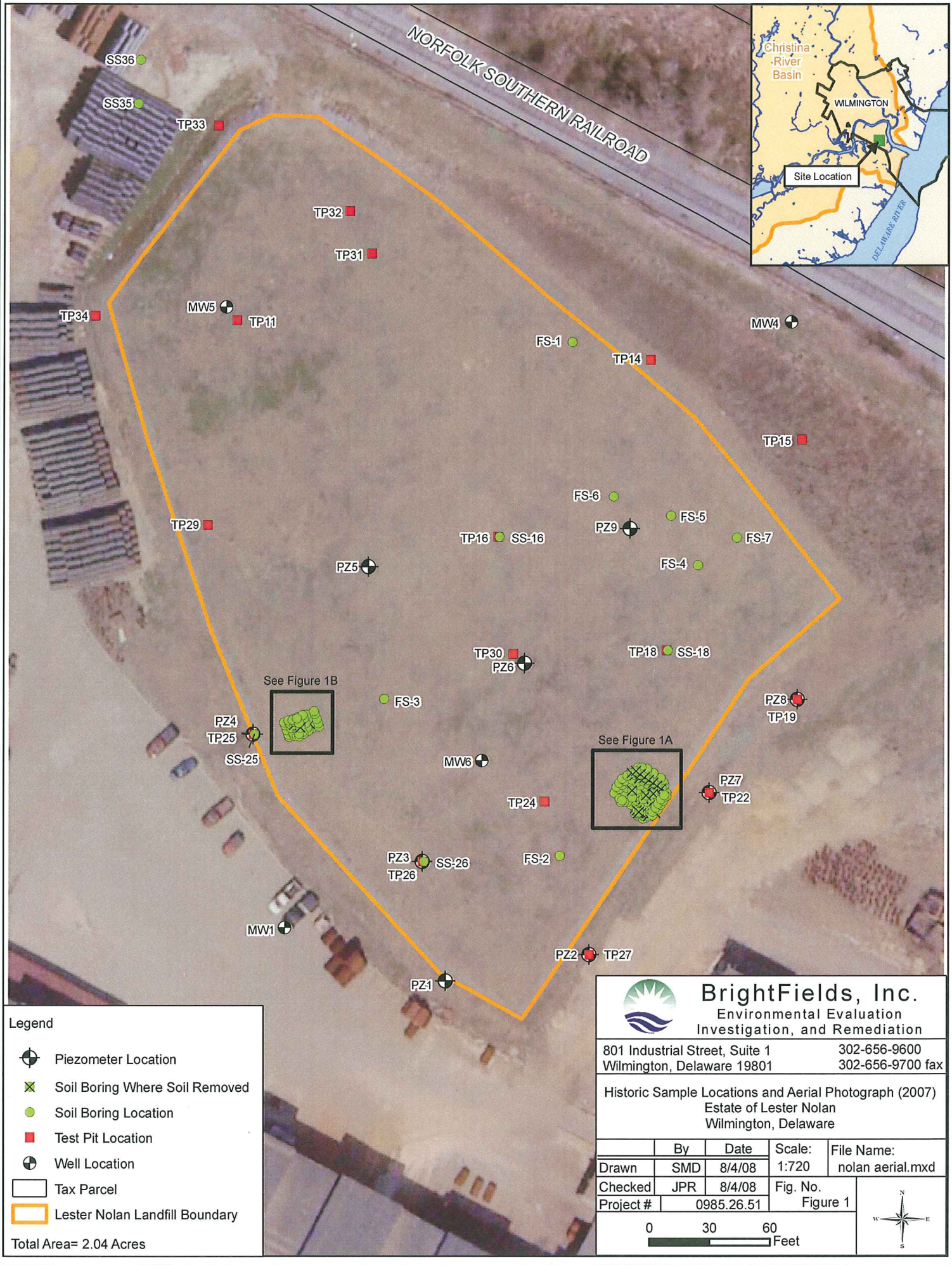
Figures



BrightFields, Inc.
Environmental Evaluation
Investigation, and Remediation

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Historic Sample Locations and Aerial Photograph (2007)
Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/4/08	1:720	nolan aerial.mxd
Checked	JPR	8/4/08	Fig. No.	Figure 1
Project #	0985.26.51			

0 30 60 Feet

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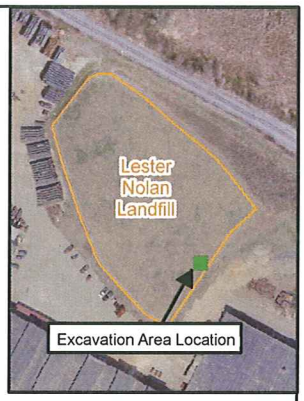

EC1-116 EC1-129 EC1-128 EC1-76 EC1-117 EC1-114 EC1-127 EC1-118 EC1-112 EC1-126 EC1-69 EC-05 EC1-75 EC1-125 EC1-61 EC1-119 EC1-68 EC1-115 EC1-74 EC1-110 EC-02 EC1-113 EC1-124 EC1-52 EC1-67 EC1-108 EC-09 EC1-102 EC1-73 EC1-123 EC1-60 EC1-111 EC-04 EC1-51 EC1-66 EC-07 EC1-122 EC1-42 EC1-59 EC1-72 EC1-106 EC1-50 EC1-65 EC1-109 EC1-41 EC1-64 EC1-104 EC1-58 EC1-101 EC-10 EC1-32 EC1-49 EC-08 EC1-71 EC1-40 EC-13 EC1-107 EC1-70 EC1-31 EC1-57 EC1-105 EC1-48 EC1-55 EC-03 EC1-88 EC1-63 EC1-39 EC1-56 EC1-121 EC1-100 EC1-30 EC1-130 EC1-22 EC1-47 EC1-62 EC1-103 EC1-38 EC1-29 EC1-46 EC1-99 EC-01 EC-06 EC1-21 EC-12 EC1-87 EC1-54 EC1-98 EC1-85 EC1-37 EC1-120 EC1-83 EC1-28 EC1-45 EC1-53 EC1-20 EC1-44 EC1-97 EC1-84 EC1-36 EC1-136 EC1-27 EC1-86 EC1-140 EC1-96 EC1-82 EC1-19 EC1-35 EC1-43 EC1-81 EC1-26 EC1-95 EC1-18 EC1-34 EC1-94 EC1-25 EC1-33 EC1-17 EC1-93 EC1-24 EC1-92 EC1-79 EC1-16 EC1-23 EC1-134 EC1-91 EC1-80 EC1-135 EC1-89 EC1-15 EC1-133 EC1-78 EC1-131 EC1-90 EC1-132 EC1-14 EC1-139 EC1-77 EC1-138 EC1-137

Legend

- Boring Location Where Soil Removed
- Soil Boring Location
- Area of Previous Excavation
- Lester Nolan Landfill Boundary

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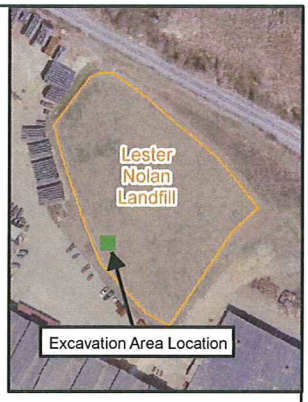
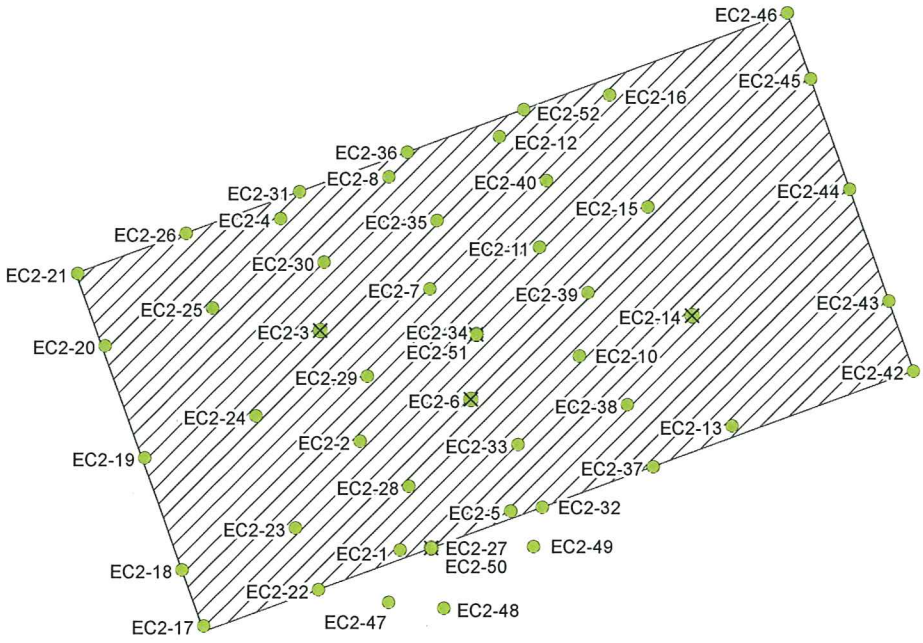
Historic Sample Locations
Excavation Area #1
The Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/6/08	1:60	nolan aerial A.mxd
Checked	JPR	8/6/08	Fig. No.	
Project #	0985.26.51		Figure 1A	

0 1.25 2.5 5 Feet

N:\Aerials and maps\Working GIS Files (Do Not Edit)\51 General Consulting\0985.26.51- PCB Mass Loading\Lester Nolan\mxds\lester nolan aerial A.mxd





Legend

- Soil Boring Where Soil Removed
- Soil Boring Location
- Area of Previous Excavation

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Historic Sample Locations
Excavation Area #2
The Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/6/08	1:48	nolan aerial b.mxd
Checked	JPR	8/6/08	Fig. No.	
Project #	0985.26.51		Figure 1B	

0 1 2 4 Feet

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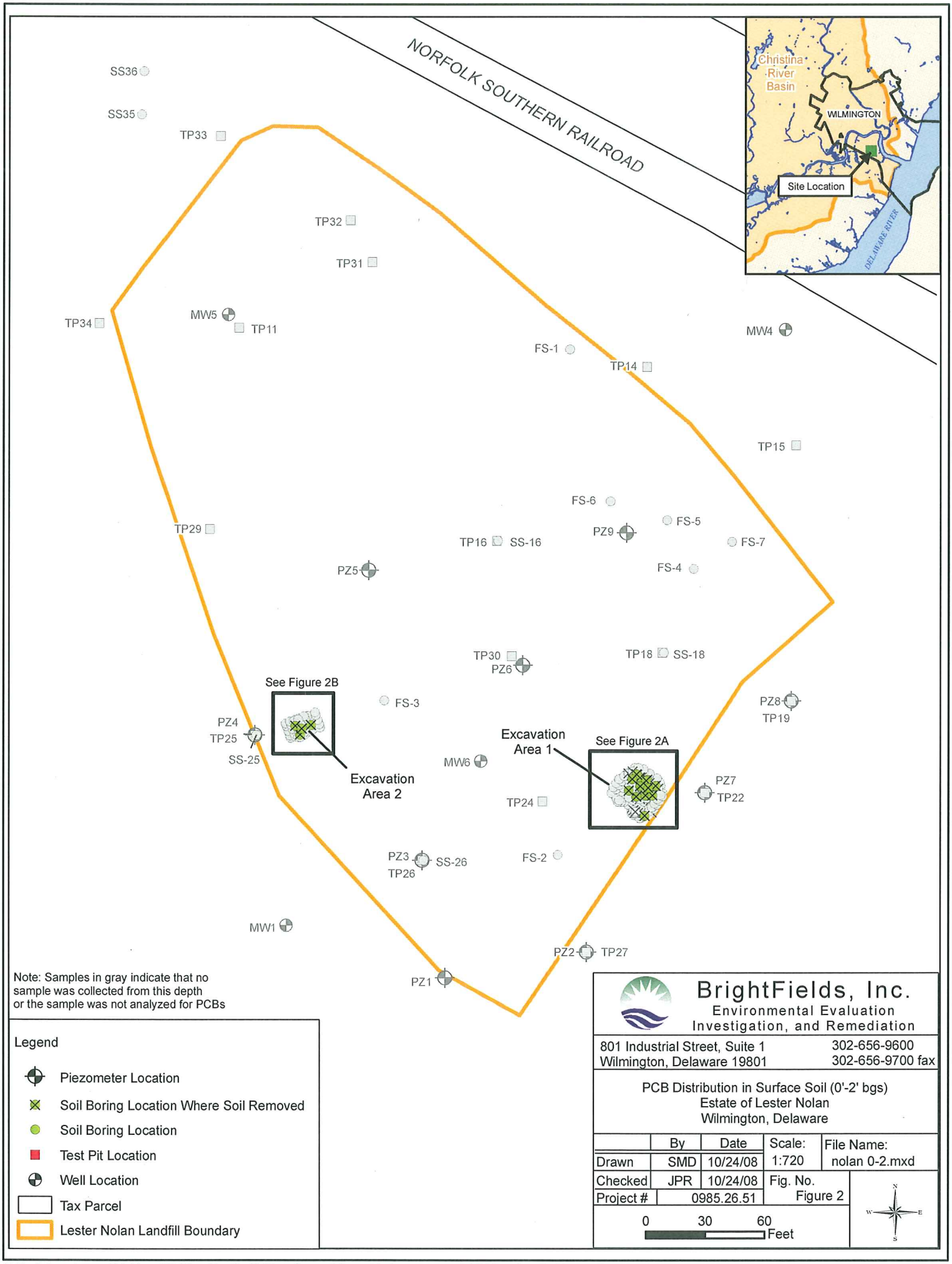

Note: Samples in gray indicate that no sample was collected from this depth or the sample was not analyzed for PCBs

Legend

- Piezometer Location
- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Test Pit Location
- Well Location
- Tax Parcel
- Lester Nolan Landfill Boundary

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PCB Distribution in Surface Soil (0'-2' bgs)
Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	10/24/08	1:720	nolan 0-2.mxd
Checked	JPR	10/24/08	Fig. No. Figure 2	
Project #	0985.26.51			

0 30 60 Feet

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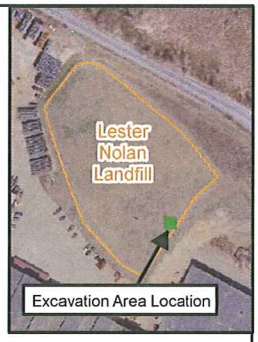

EC1-116 EC1-129 EC1-128 EC1-76 EC1-117 EC1-114 EC1-127 EC1-118 EC1-112 EC1-126 EC1-69 EC-05 EC1-75 EC1-115 EC1-125 EC1-61 EC1-119 EC1-68 EC1-74 EC-02 EC1-113 EC1-110 EC1-52 EC-09 EC1-108 EC1-124 EC1-60 EC1-67 EC1-102 EC1-73 EC1-111 EC1-123 EC1-51 EC1-66 EC-07 EC-04 EC1-42 EC1-59 EC1-72 EC1-109 EC1-122 EC1-50 EC1-65 EC1-64 EC1-106 EC1-41 EC1-58 EC1-101 EC-10 EC1-104 EC1-32 EC1-49 EC-08 EC-13 EC1-71 EC1-40 EC1-57 EC1-107 EC1-70 EC1-31 EC1-48 EC1-55 EC1-88 EC1-105 EC-03 EC1-39 EC1-56 EC1-121 EC1-63 EC1-30 EC1-47 EC1-130 EC1-100 EC1-22 EC1-38 EC1-62 EC1-103 EC1-46 EC1-29 EC1-87 EC-01 EC-06 EC1-99 EC1-21 EC1-120 EC1-54 EC1-28 EC-12 EC1-98 EC1-85 EC1-37 EC1-45 EC1-83 EC1-20 EC1-44 EC1-53 EC1-36 EC1-84 EC1-27 EC1-136 EC1-97 EC1-86 EC1-140 EC1-96 EC1-82 EC1-19 EC1-35 EC1-81 EC1-43 EC1-26 EC1-95 EC1-18 EC1-34 EC1-94 EC1-25 EC1-33 EC1-17 EC1-93 EC1-24 EC1-92 EC1-79 EC1-23 EC1-134 EC1-16 EC1-91 EC1-80 EC1-135 EC1-89 EC1-133 EC1-15 EC1-78 EC1-131 EC1-90 EC1-132 EC1-139 EC1-14 EC1-77 EC1-138 EC1-137

Legend

- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Area of Previous Excavation
- Lester Nolan Landfill Boundary

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

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PCB Distribution in Surface Soil (0'-2' bgs)
Excavation Area #1
The Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/7/08	1:60	nolan 0-2a.mxd
Checked	JPR	8/7/08	Fig. No.	
Project #	0985.26.51		Figure 2A	

0 2.5 5 Feet

N

W E

S

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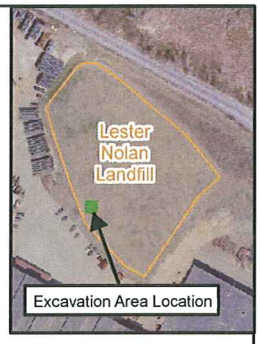

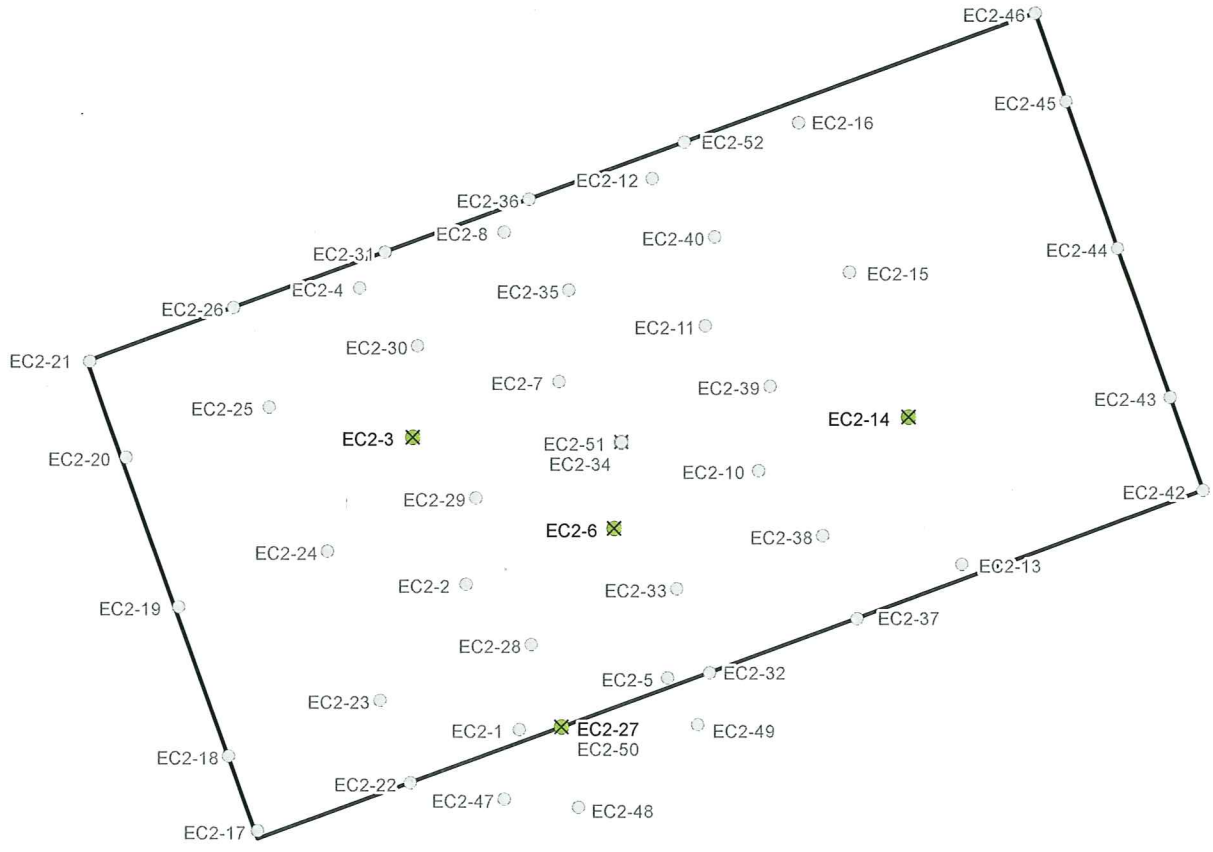

Legend

- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Area of Previous Excavation

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 Surface Soil (0'-2' bgs)
Exavation Area #2
The Estate of Lester Nolan
Wilmington, Delalware

	By	Date	Scale:	File Name:
Drawn	SMD	8/6/08	1:36	nolan 0-2b.mxd
Checked	JEC	8/6/08	Fig. No.	
Project #	0985.26.51		Figure 2B	

0 1.5 3 Feet

N
W E
S

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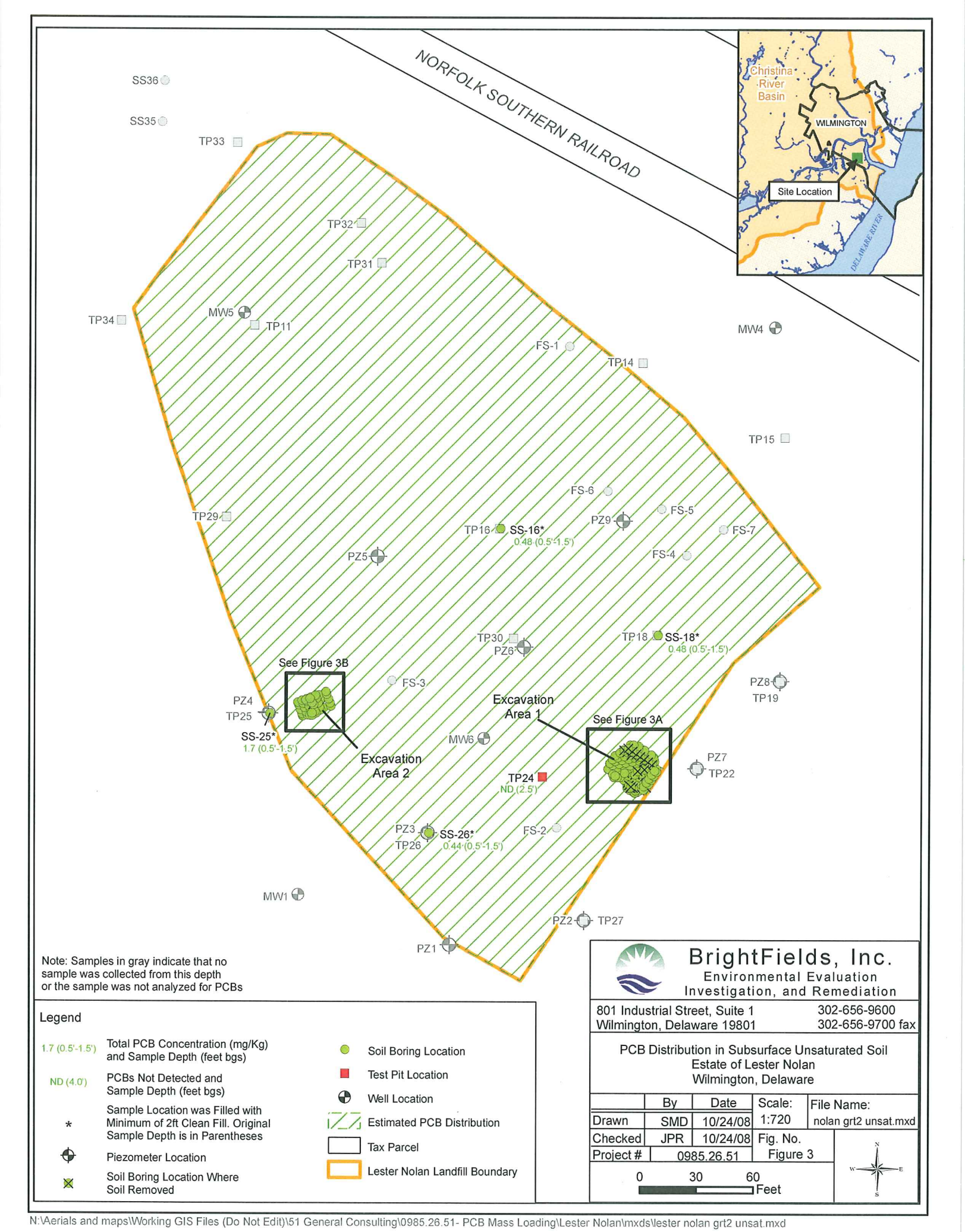

Note: Samples in gray indicate that no sample was collected from this depth or the sample was not analyzed for PCBs

Legend

- 1.7 (0.5'-1.5') — Total PCB Concentration (mg/Kg) and Sample Depth (feet bgs)
- ND (4.0') — PCBs Not Detected and Sample Depth (feet bgs)
- * — Sample Location was Filled with Minimum of 2ft Clean Fill. Original Sample Depth is in Parentheses
- Piezometer Location
- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Test Pit Location
- Well Location
- Estimated PCB Distribution
- Tax Parcel
- Lester Nolan Landfill Boundary

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PCB Distribution in Subsurface Unsaturated Soil
Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	10/24/08	1:720	nolan grt2 unsat.mxd
Checked	JPR	10/24/08	Fig. No.	Figure 3
Project #	0985.26.51			

0 30 60 Feet

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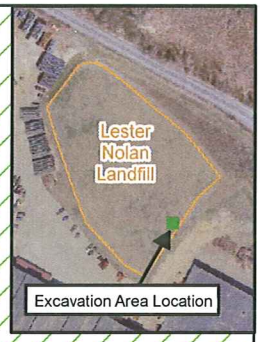

Note: Samples in gray indicate that no sample was collected from this depth or the sample was not analyzed for PCBs

Legend

0.580 (2.5')	Total PCB Concentration (mg/Kg) and Sample Depth (feet bgs)
ND (4.0')	PCBs Not Detected and Sample Depth (feet bgs)
(ND)	Screening Result
*	Sample Location was Filled with Minimum of 2ft Clean Fill. Original Sample Depth is in Parentheses.
⊠	Soil Boring Location Where Soil Removed
●	Soil Boring Location
	Estimated PCB Distribution
	Area of Previous Excavation
	Lester Nolan Landfill Boundary

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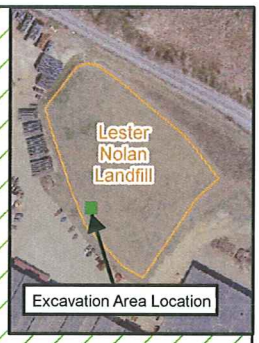
PCB Distribution in Subsurface Unsaturated Soil
Excavation Area #1
The Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/11/08	1:60	nolan unsat a.mxd
Checked	JPR	8/11/08	Fig. No.	Figure 3A
Project #	0985.26.51			

0 2.5 5 Feet

N:\Aerials and maps\Working GIS Files (Do Not Edit)\51 General Consulting\0985.26.51- PCB Mass Loading\Lester Nolan\mxds\lester nolan grt2 unsat A.mxd



EC2-46 (ND)
EC2-45 (ND)
EC2-16* (ND)
1.790 (4.0') EC2-52
EC2-12* (ND)
(2,200) EC2-36
EC2-8* (ND)
(ND) EC2-31
EC2-40 (ND)
EC2-44 (1,400)
EC2-15* (>10)
EC2-4** (0.056)
EC2-35 (ND)
EC2-26 (ND)
EC2-11* (ND)
EC2-30 (ND)
EC2-21 0.360 (2.5')
EC2-7* (ND)
EC2-39 (ND)
EC2-43 2,770 (2.5')
EC2-25 ND (4.0')
EC2-14
EC2-3
EC2-34
0.530 (4.0') EC2-51
EC2-20* (ND)
EC2-10** (1,360)
EC2-42* ND (1.5')
EC2-29 (ND)
EC2-6
EC2-38 (ND)
EC2-24 (ND)
EC2-13* (ND)
EC2-2* (ND)
EC2-33 (ND)
EC2-19* (ND)
EC2-37* (ND)
EC2-28 (ND)
EC2-5* (ND)
EC2-32* (ND)
EC2-23 (ND)
EC2-1** (2,120)
EC2-27
EC2-49 (ND)
EC2-50 0.580 (4.0')
EC2-18 0.650 (2.5')
EC2-22* (ND)
EC2-47 (ND)
(ND) EC2-48
EC2-17* (ND)

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

Legend

- 0.530 (4.0') — Total PCB Concentration (mg/Kg) and Sample Depth (feet bgs)
- ND (4.0') — PCBs Not Detected and Sample Depth (feet bgs)
- (ND) — Screening Result
- * — Sample Location was Filled with Minimum of 2ft Clean Fill
- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Estimated PCB Distribution
- Area of Previous Excavation

BrightFields, Inc.
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Investigation, and Remediation

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PCB Distribution in Subsurface Unsaturated Soil
Excavation Area #2
The Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/11/08	1:36	nolan unsat b.mxd
Checked	JPR	8/11/08	Fig. No.	
Project #	0985.26.51		Figure 3B	

0 1.5 3 Feet

N W E S

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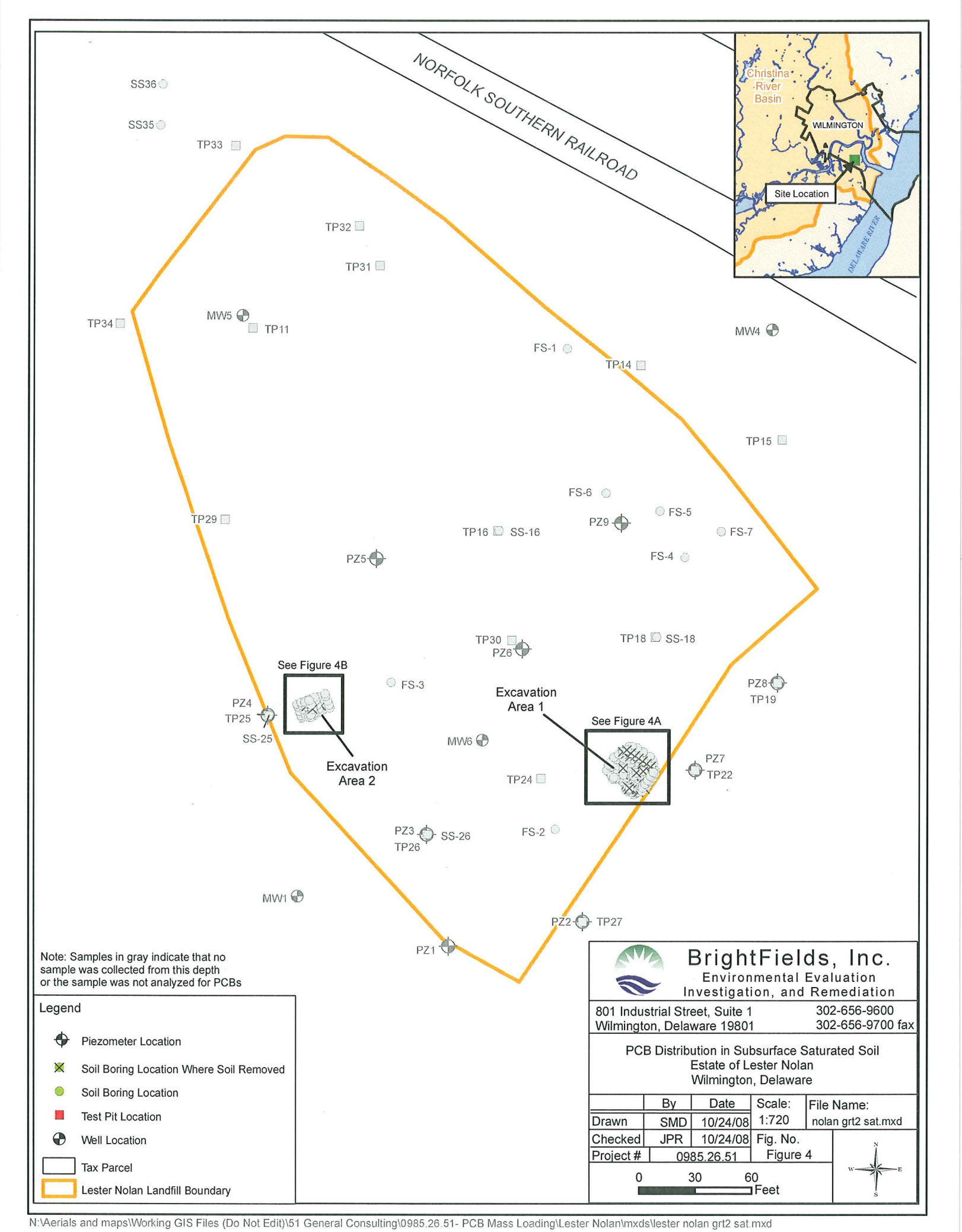

Note: Samples in gray indicate that no sample was collected from this depth or the sample was not analyzed for PCBs

Legend

- Piezometer Location
- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Test Pit Location
- Well Location
- Tax Parcel
- Lester Nolan Landfill Boundary

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

PCB Distribution in Subsurface Saturated Soil
Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	10/24/08	1:720	nolan grt2 sat.mxd
Checked	JPR	10/24/08	Fig. No.	
Project #	0985.26.51		Figure 4	

0 30 60 Feet

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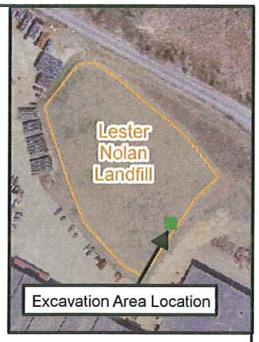

EC1-116 EC1-129 EC1-128 EC1-76 EC1-117 EC1-114 EC1-127 EC1-118 EC-05 EC1-75 EC1-115 EC1-112 EC1-126 EC1-125 EC1-61 EC1-69 EC1-68 EC1-119 EC-02 EC1-74 EC1-113 EC1-110 EC1-124 EC1-52 EC-09 EC1-60 EC1-67 EC1-102 EC1-73 EC1-111 EC1-108 EC1-123 EC1-51 EC1-66 EC-07 EC-04 EC1-42 EC1-59 EC1-72 EC1-109 EC1-106 EC1-122 EC1-50 EC1-65 EC1-64 EC1-101 EC1-41 EC1-58 EC-10 EC1-104 EC1-32 EC1-49 EC-08 EC-13 EC1-71 EC1-107 EC1-40 EC1-57 EC1-70 EC1-105 EC1-31 EC1-48 EC1-55 EC1-88 EC1-121 EC1-130 EC1-63 EC1-100 EC-03 EC1-39 EC1-56 EC1-30 EC1-47 EC1-62 EC1-103 EC1-22 EC1-38 EC1-46 EC1-87 EC1-120 EC-01 EC-06 EC1-99 EC1-29 EC1-21 EC1-28 EC1-85 EC-12 EC1-37 EC1-54 EC1-98 EC1-45 EC1-53 EC1-97 EC1-83 EC1-20 EC1-36 EC1-86 EC1-84 EC1-27 EC1-96 EC1-44 EC1-136 EC1-140 EC1-82 EC1-81 EC1-19 EC1-35 EC1-43 EC1-95 EC1-26 EC1-18 EC1-34 EC1-94 EC1-25 EC1-33 EC1-93 EC1-17 EC1-24 EC1-79 EC1-92 EC1-16 EC1-23 EC1-134 EC1-80 EC1-135 EC1-91 EC1-89 EC1-15 EC1-133 EC1-131 EC1-78 EC1-132 EC1-139 EC1-90 EC1-14 EC1-77 EC1-137 EC1-138

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

Legend

- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Area of Previous Excavation
- Lester Nolan Landfill Boundary

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PCB Distribution in Subsurface Saturated Soil
Excavation Area #1
The Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/11/08	1:60	nolan sat a.mxd
Checked	JPR	8/11/08	Fig. No.	
Project #	0985.26.51		Figure 4A	

0 2.5 5 Feet

N W E S

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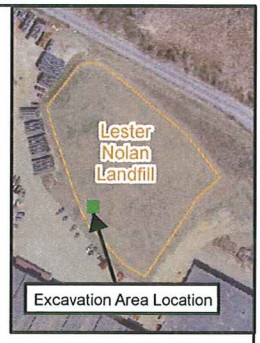

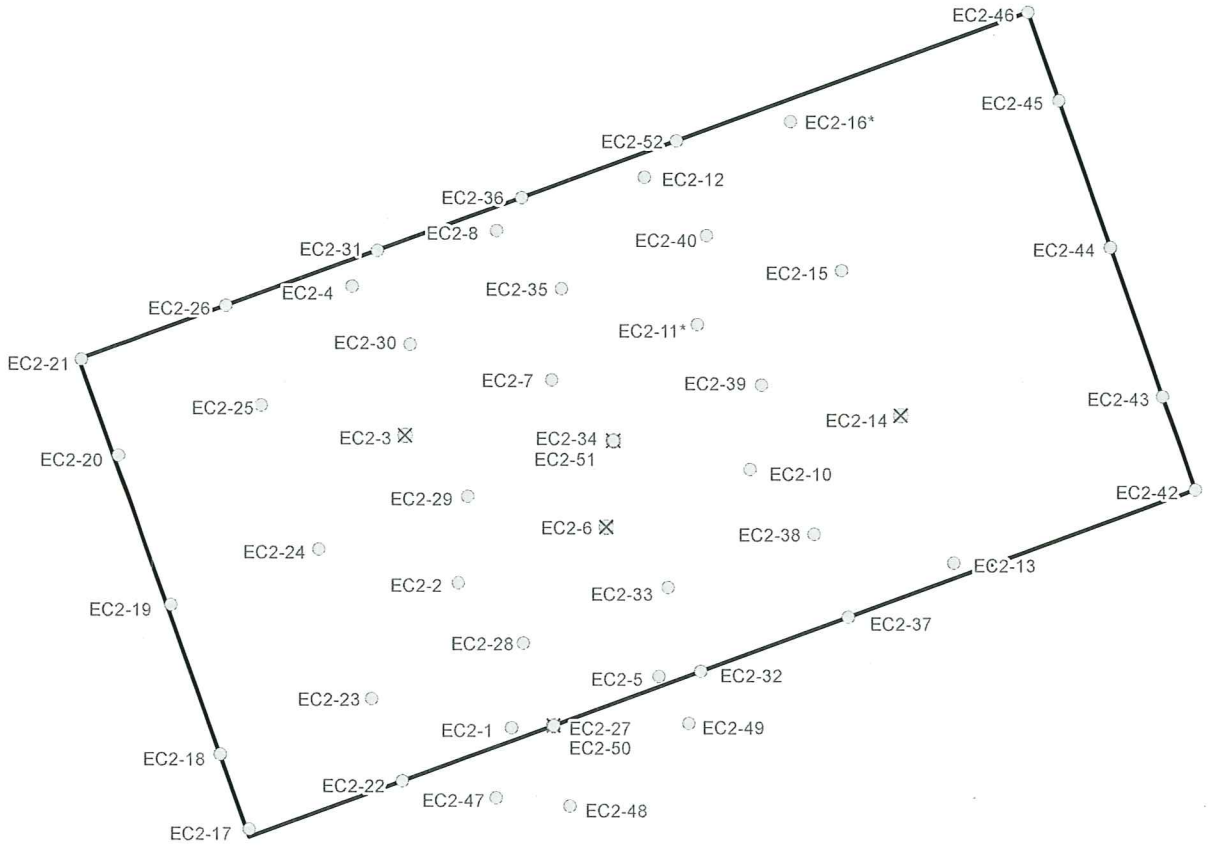

Note: Samples in gray indicate that no sample was collected from this depth or the sample was not analyzed for PCBs

Legend

- Soil Boring Location Where Soil Removed
- Soil Boring Location
- Area of Previous Excavation

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PCB Distribution in Subsurface Saturated Soil
Excavation Area #2
The Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/11/08	1:36	nolan sat b.mxd
Checked	JPR	8/11/08	Fig. No.	
Project #	0985.26.51		Figure 4B	

0 1.5 3 Feet

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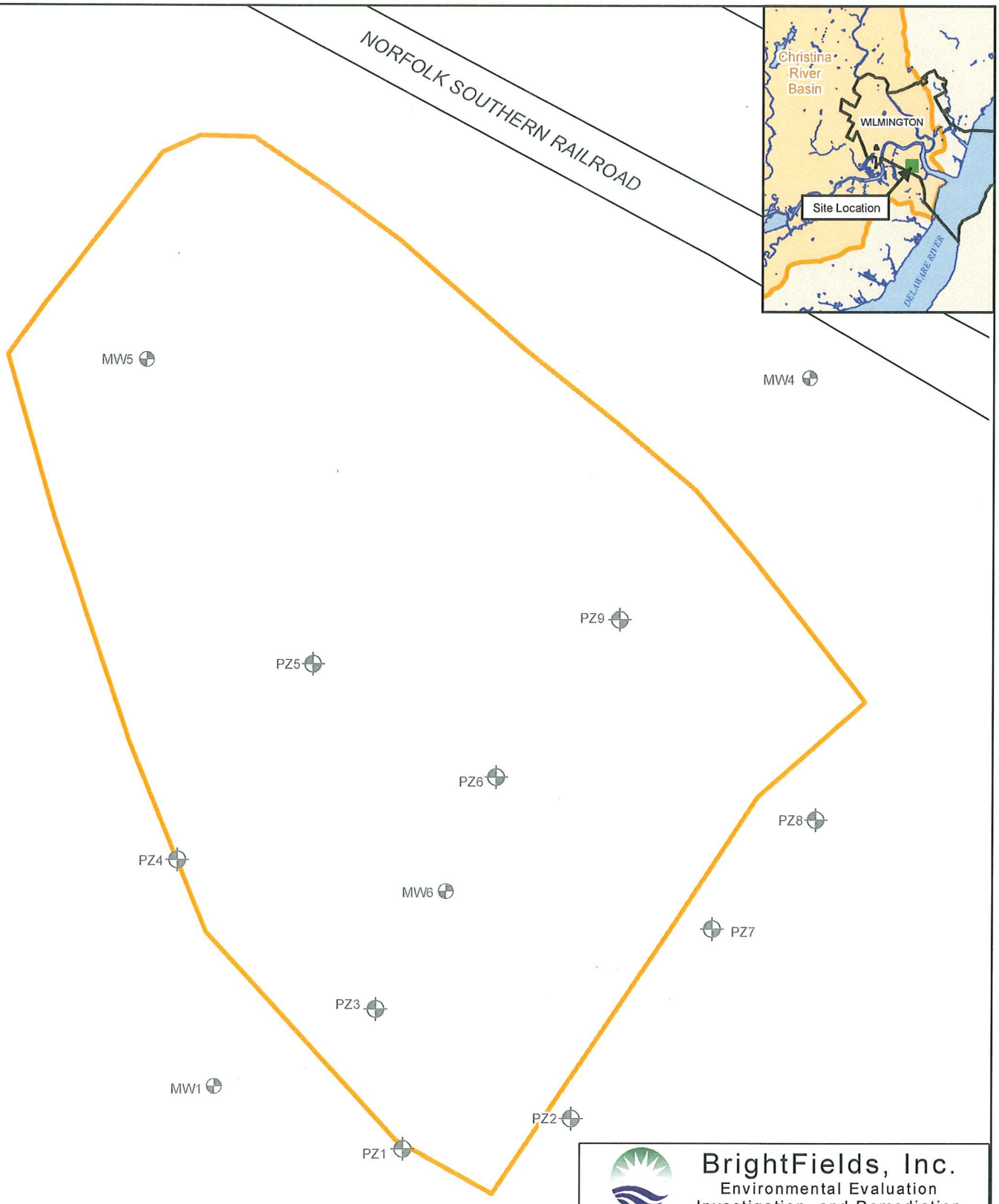

Note: Samples in gray indicate that no sample was collected from this depth or the sample was not analyzed for PCBs

Legend

- Piezometer Location
- Well Location
- Tax Parcel
- Lester Nolan Landfill Boundary

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PCB Distribution in Groundwater
Estate of Lester Nolan
Wilmington, Delaware

	By	Date	Scale:	File Name:
Drawn	SMD	8/11/08	1:720	nolan gw.mxd
Checked	JPR	8/11/08	Fig. No.	Figure 5
Project #	0985.26.51			

0 30 60 Feet

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Tables

Table 1
PCB Analytical Results For Soil
The Estate of Lester Nolan Landfill
(DE-0165)

Sample ID	DNREC URS for Protection of Human Health Non-critical Water Resource Area		SS-25	SS-18	SS-16	SS-26
Sampling Depth (feet bgs)			0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5
Sampling Date			2/15/96	2/15/96	2/15/96	2/15/96
Units	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg
Report Issued	Unrestricted Use	Restricted Use	WIK Associates (1996)	WIK Associates (1996)	WIK Associates (1996)	WIK Associates (1996)
PCBs						
Aroclor-1016	5	82	0.38 U	0.37 U	0.37 U	0.38 U
Aroclor-1221	0.3	3	0.77 U	0.74 U	0.74 U	0.77 U
Aroclor-1232	0.3	3	0.38 U	0.37 U	0.37 U	0.38 U
Aroclor-1242	0.3	3	0.38 U	0.37 U	0.37 U	0.38 U
Aroclor-1248	0.3	3	0.38 U	0.37 U	0.37 U	0.38 U
Aroclor-1254	0.3	3	0.38 U	0.37 U	0.37 U	0.38 U
Aroclor-1260	0.3	3	**1.7**	**0.48**	**0.48**	**0.44**
Aroclor-1262	nca	nca	NR	NR	NR	NR
Aroclor-1268	nca	nca	NR	NR	NR	NR

WIK Associates (1996) - Remedial Investigation of The Estate of Lester Nolan Landfill. WIK 1996.

Qualifiers
U - The compound was not detected above laboratory detection limits
NR - Not analyzed.
nca - no criteria available
bold - concentration is above DNREC URS unrestricted use criteria
shaded - concentration is above DNREC URS restricted use criteria

Table 2
PCB Analytical Results
Remedial Action Confirmation Samples for Soil
Nolan Landfill
(DE-0165)

Sample ID Sampling Depth (feet bgs) Sampling Date Units Report Issued	DNREC URS for Protection of Human Health Non-critical Water Resource Area mg/Kg Unrestricted Use	 Restricted Use	*EC-01* *2.0'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-02* *2'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-03* *2.0'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-04* *0'-1'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-05* *2.0'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-06* *0'-1'* *12/21/00* *mg/Kg* *WIK (2001)*
PCBs								
Aroclor-1016	5	82	210 U	40 U	0.094 U	16 U	3.9 U	77 U
Aroclor-1221	0.3	3	210 U	40 U	0.094 U	16 U	3.9 U	77 U
Aroclor-1232	0.3	3	210 U	40 U	0.094 U	16 U	3.9 U	77 U
Aroclor-1242	0.3	3	210 U	40 U	0.094 U	16 U	3.9 U	77 U
Aroclor-1248	0.3	3	210 U	40 U	0.094 U	16 U	3.9 U	77 U
Aroclor-1254	0.3	3	**3200**	**900**	**1.7**	**280**	**53**	**17**
Aroclor-1260	0.3	3	210 U	40 U	0.094 U	16 U	3.9 U	7.7 U
Aroclor-1262	nca	nca	210 U	40 U	0.094 U	16 U	3.9 U	7.7 U
Aroclor-1268	nca	nca	210 U	40 U	0.094 U	16 U	3.9 U	7.7 U

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

Qualifiers
U - The compound was not detected above laboratory detection limits
NR - Not analyzed.
nca - no criteria available
bold - concentration is above DNREC URS unrestricted use criteria
shaded - concentration is above DNREC URS restricted use criteria
italicized - samples have been removed

Table 2
PCB Analytical Results
Remedial Action Confirmation Samples for Soil
Nolan Landfill
(DE-0165)

Sample ID Sampling Depth (feet bgs) Sampling Date Units Report Issued	DNREC URS for Protection of Human Health Non-critical Water Resource Area mg/Kg Unrestricted Use	Restricted Use	*EC-07* *2.0'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-08* *2.0'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-09* *0'-1'* *12/21/00* *mg/Kg* *WIK (2001)*	*EC-10* *2.0'* *12/21/00* *mg/Kg* *WIK (2001)*	EC1-101 4.0' 1/24/01 mg/Kg WIK (2001)	EC1-102 4.0' 1/24/01 mg/Kg WIK (2001)
PCBs								
Aroclor-1016	5	82	200 U	780 U	0.9 U	15	4	0.38
Aroclor-1221	0.3	3	200 U	780 U	0.9 U	15	4	0.38
Aroclor-1232	0.3	3	200 U	780 U	0.9 U	15	4	0.38
Aroclor-1242	0.3	3	200 U	780 U	0.9 U	15	4	0.38
Aroclor-1248	0.3	3	200 U	780 U	0.9 U	15	4	0.38
Aroclor-1254	0.3	3	**2800**	**12,000**	**13**	**240**	**5.4**	**6.5**
Aroclor-1260	0.3	3	200 U	780 U	0.9 U	15	4	0.38
Aroclor-1262	nca	nca	200 U	780 U	0.9 U	15	4	0.38
Aroclor-1268	nca	nca	200 U	780 U	0.9 U	15	4	0.38

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

Qualifiers
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shaded - concentration is above DNREC URS restricted use criteria
italicized - samples have been removed

Table 2
PCB Analytical Results
Remedial Action Confirmation Samples for Soil
Nolan Landfill
(DE-0165)

Sample ID Sampling Depth (feet bgs) Sampling Date Units Report Issued	DNREC URS for Protection of Human Health Non-critical Water Resource Area mg/Kg		EC1-104 2.5' 1/24/01 mg/Kg WIK (2001)	EC1-116 2.5' 1/24/01 mg/Kg WIK (2001)	EC1-126 2.5' 1/29/01 mg/Kg WIK (2001)	EC1-130 6' 1/29/01 mg/Kg WIK (2001)	EC1-133 2.0' 1/29/01 mg/Kg WIK (2001)	*EC1-136* *5.5'* *1/29/01* *mg/Kg* *WIK (2001)*
	Unrestricted Use	Restricted Use						
PCBs								
Aroclor-1016	5	82	0.78 U	0.085 U	0.084 U	0.76 U	0.083 U	1.9 U
Aroclor-1221	0.3	3	0.78 U	0.085 U	0.084 U	0.76 U	0.083 U	1.9 U
Aroclor-1232	0.3	3	0.78 U	0.085 U	0.084 U	0.76 U	0.083 U	1.9 U
Aroclor-1242	0.3	3	0.78 U	0.085 U	0.084 U	0.76 U	0.083 U	1.9 U
Aroclor-1248	0.3	3	0.78 U	0.085 U	0.084 U	0.76 U	0.083 U	1.9 U
Aroclor-1254	0.3	3	**18**	**0.74**	0.22	**9.7**	**1.8**	**22**
Aroclor-1260	0.3	3	0.78 U	0.28	0.084 U	0.76 U	0.083 U	1.9 U
Aroclor-1262	nca	nca	0.78 U	0.085 U	0.084 U	0.76 U	0.083 U	1.9 U
Aroclor-1268	nca	nca	0.78 U	0.085 U	0.084 U	0.76 U	0.083 U	1.9 U

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

Qualifiers
U - The compound was not detected above laboratory detection limits
NR - Not analyzed.
nca - no criteria available
bold - concentration is above DNREC URS unrestricted use criteria
shaded - concentration is above DNREC URS restricted use criteria
italicized - samples have been removed

Table 2
PCB Analytical Results
Remedial Action Confirmation Samples for Soil
Nolan Landfill
(DE-0165)

Sample ID Sampling Depth (feet bgs) Sampling Date Units Report Issued	DNREC URS for Protection of Human Health Non-critical Water Resource Area mg/Kg Unrestricted Use	 Restricted Use	EC1-139 2.5' 1/29/01 mg/Kg WIK (2001)	EC1-140 5.5 1/29/01 mg/Kg WIK (2001)	EC1-18 2.5' 1/17/01 mg/Kg WIK (2001)	*EC-12* *0'-1'* *12/21/00* *mg/Kg* *WIK (2001)*	EC1-22 2.5' 1/17/01 mg/Kg WIK (2001)	*EC1-23* *2.5'* *1/17/01* *mg/Kg* *WIK (2001)*
PCBs								
Aroclor-1016	5	82	0.074 U	0.38 U	0.079 U	1.9 U	0.091 U	0.073 U
Aroclor-1221	0.3	3	0.074 U	0.38 U	0.079 U	1.9 U	0.091 U	0.073 U
Aroclor-1232	0.3	3	0.074 U	0.38 U	0.079 U	1.9 U	0.091 U	0.073 U
Aroclor-1242	0.3	3	0.074 U	0.38 U	0.079 U	1.9 U	0.091 U	0.073 U
Aroclor-1248	0.3	3	0.074 U	0.38 U	0.079 U	1.9 U	0.091 U	0.073 U
Aroclor-1254	0.3	3	**0.58**	**7.3**	0.55 U	**34**	**0.48**	**0.76**
Aroclor-1260	0.3	3	0.074 U	0.38 U	0.079 U	1.9 U	0.29	0.073 U
Aroclor-1262	nca	nca	0.074 U	0.38 U	0.079 U	1.9 U	0.091 U	0.073 U
Aroclor-1268	nca	nca	0.074 U	0.38 U	0.079 U	1.9 U	0.091 U	0.073 U

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

Qualifiers
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NR - Not analyzed.
nca - no criteria available
bold - concentration is above DNREC URS unrestricted use criteria
shaded - concentration is above DNREC URS restricted use criteria
italicized - samples have been removed

Table 2
PCB Analytical Results
Remedial Action Confirmation Samples for Soil
Nolan Landfill
(DE-0165)

Sample ID Sampling Depth (feet bgs) Sampling Date Units Report Issued	DNREC URS for Protection of Human Health Non-critical Water Resource Area mg/Kg Unrestricted Use	 Restricted Use	*EC-13* *2.0'* *12/21/00* *mg/Kg* *WIK (2001)*	EC1-37 4.0' 12/21/00 mg/Kg WIK (2001)	EC1-42 4.0' 1/29/01 mg/Kg WIK (2001)	EC1-50 4 1/29/01 mg/Kg WIK (2001)	EC1-58 4.0' 1/17/08 mg/Kg WIK (2001)	*EC1-62* *4'* *1/17/01* *mg/Kg* *WIK (2001)*
PCBs								
Aroclor-1016	5	82	790 U	1.8 U	0.094 U	0.081 U	0.74 U	1.9 U
Aroclor-1221	0.3	3	790 U	1.8 U	0.094 U	0.081 U	0.74 U	1.9 U
Aroclor-1232	0.3	3	790 U	1.8 U	0.094 U	0.081 U	0.74 U	1.9 U
Aroclor-1242	0.3	3	790 U	1.8 U	0.094 U	0.081 U	0.74 U	1.9 U
Aroclor-1248	0.3	3	790 U	1.8 U	0.094 U	0.081 U	0.74 U	1.9
Aroclor-1254	0.3	3	**14,000**	**28**	0.094 U	**0.54**	**9.1**	**30**
Aroclor-1260	0.3	3	790 U	1.8 U	**0.43**	0.081 U	0.74 U	1.9 U
Aroclor-1262	nca	nca	790 U	1.8 U	0.094 U	0.081 U	0.74 U	1.9 U
Aroclor-1268	nca	nca	790 U	1.8 U	0.094 U	0.081 U	0.74 U	1.9 U

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

Qualifiers
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NR - Not analyzed.
nca - no criteria available
bold - concentration is above DNREC URS unrestricted use criteria
shaded - concentration is above DNREC URS restricted use criteria
italicized - samples have been removed

Table 2
PCB Analytical Results
Remedial Action Confirmation Samples for Soil
Nolan Landfill
(DE-0165)

Sample ID Sampling Depth (feet bgs) Sampling Date Units Report Issued	DNREC URS for Protection of Human Health Non-critical Water Resource Area mg/Kg Unrestricted Use	 Restricted Use	*EC1-87* *4.5'* *1/24/01* *mg/Kg* *WIK (2001)*	*EC1-89* *2.5'* *1/24/01* *mg/Kg* *WIK (2001)*	EC1-94 2.5' 1/24/08 mg/Kg WIK (2001)	EC2-18 2.5' 1/17/01 mg/Kg WIK (2001)	EC2-21 2.5' 1/24/01 mg/Kg WIK (2001)	EC2-25 4.0' 1/24/01 mg/Kg WIK (2001)
PCBs								
Aroclor-1016	5	82	2 U	0.15 U	0.14 U	0.081 U	0.08 U	0.076 U
Aroclor-1221	0.3	3	2 U	0.15 U	0.14 U	0.081 U	0.08 U	0.076 U
Aroclor-1232	0.3	3	2 U	0.15 U	0.14 U	0.081 U	0.08 U	0.076 U
Aroclor-1242	0.3	3	2 U	0.15 U	0.14 U	0.081 U	0.08 U	0.076 U
Aroclor-1248	0.3	3	**2** U	0.15 U	0.14 U	0.2	0.12	0.076 U
Aroclor-1254	0.3	3	**33**	**3**	**2.5**	0.081 U	0.08 U	0.076 U
Aroclor-1260	0.3	3	2 U	0.15 U	0.14 U	**0.45**	0.24	0.076 U
Aroclor-1262	nca	nca	2 U	0.15 U	0.14 U	0.081 U	0.08 U	0.076 U
Aroclor-1268	nca	nca	2 U	0.15 U	0.14 U	0.081 U	0.08 U	0.076 U

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

Qualifiers
U - The compound was not detected above laboratory detection limits
NR - Not analyzed.
nca - no criteria available
bold - concentration is above DNREC URS unrestricted use criteria
shaded - concentration is above DNREC URS restricted use criteria
italicized - samples have been removed

Table 2
PCB Analytical Results
Remedial Action Confirmation Samples for Soil
Nolan Landfill
(DE-0165)

Sample ID Sampling Depth (feet bgs) Sampling Date Units Report Issued	DNREC URS for Protection of Human Health Non-critical Water Resource Area mg/Kg		EC2-42 1.5' 1/17/01 mg/Kg WIK (2001)	EC2-43 2.5' 1/24/01 mg/Kg WIK (2001)	EC2-50 4.0' 1/24/01 mg/Kg WIK (2001)	EC2-51 4.0' 1/24/01 mg/Kg WIK (2001)	EC2-52 4.0' 1/24/01 mg/Kg WIK (2001)
	Unrestricted Use	Restricted Use					
PCBs							
Aroclor-1016	5	82	0.076 U	0.16 U	0.079 U	0.092 U	0.078 U
Aroclor-1221	0.3	3	0.076 U	0.16 U	0.079 U	0.092 U	0.078 U
Aroclor-1232	0.3	3	0.076 U	0.16 U	0.079 U	0.092 U	0.078 UU
Aroclor-1242	0.3	3	0.076 U	0.16 U	0.079 U	0.092 U	0.078 U
Aroclor-1248	0.3	3	0.076 U	**2.4**	**0.42**	**0.53**	**1.5**
Aroclor-1254	0.3	3	0.076 U	0.16 U	0.079 U	0.092 U	0.078 U
Aroclor-1260	0.3	3	0.076 U	**0.37**	0.16	0.092 U	0.29
Aroclor-1262	nca	nca	0.076 U	0.16 U	0.079 U	0.092 U	0.078 U
Aroclor-1268	nca	nca	0.076 U	0.16 U	0.079 U	0.092 U	0.078 U

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

Qualifiers
U - The compound was not detected above laboratory detection limits
NR - Not analyzed.
nca - no criteria available
bold - concentration is above DNREC URS unrestricted use criteria
shaded - concentration is above DNREC URS restricted use criteria
italicized - samples have been removed

Table 3
PCB Screening Data
The Estate of Lester Nolan Landfill
Wilmington, DE
SIRB ID: DE-0165

Sample ID	Sample Depth	Investigation Report	Sample Date	DNREC URS for Protection of Human Health (Non Unrestricted Use (mg/kg)	Total PCBs (mg/kg)
EC1-100	4'	WIK (2001)	1/24/01	1	ND
EC1-103	2.5'	WIK (2001)	1/24/01	1	ND
EC1-105	4	WIK (2001)	1/24/01	1	0.3
EC1-106	2.5'	WIK (2001)	1/24/01	1	>10
EC1-107	4'	WIK (2001)	1/24/01	1	>10
EC1-108	2.5'	WIK (2001)	1/24/01	1	>10
EC1-109	4'	WIK (2001)	1/24/01	1	>10
EC1-110	2.5'	WIK (2001)	1/24/01	1	>10
EC1-111	4'	WIK (2001)	1/24/01	1	>10
EC1-112	2.5'	WIK (2001)	1/24/01	1	>10
EC1-113	4'	WIK (2001)	1/24/01	1	3.3
EC1-114	2.5'	WIK (2001)	1/24/01	1	1.22
EC1-115	4'	WIK (2001)	1/24/01	1	0.52
EC1-117	4'	WIK (2001)	1/24/01	1	ND
EC1-118	2.5'	WIK (2001)	1/24/01	1	ND
EC1-119	4'	WIK (2001)	1/24/01	1	ND
EC1-120	4'	WIK (2001)	1/24/01	1	1.240
EC1-121	4'	WIK (2001)	1/24/01	1	>30
EC1-122	2.5'	WIK (2001)	1/24/01	1	ND
EC1-123	4'	WIK (2001)	1/24/01	1	ND
EC1-124	2.5'	WIK (2001)	1/24/01	1	ND
EC1-125	4'	WIK (2001)	1/24/01	1	ND
EC1-127	4'	WIK (2001)	1/24/01	1	ND
EC1-128	2.5'	WIK (2001)	1/24/01	1	ND
EC1-129	2.5'	WIK (2001)	1/24/01	1	ND
EC1-131	2.5'	WIK (2001)	1/24/01	1	28
EC1-132	2'	WIK (2001)	1/24/01	1	ND
EC1-134	2'	WIK (2001)	1/24/01	1	ND
EC1-135	4'	WIK (2001)	1/24/01	1	>10
EC1-137	2.5'	WIK (2001)	1/29/01	1	ND
EC1-138	2.5'	WIK (2001)	1/24/01	1	ND
EC1-14	2'	WIK (2001)	1/17/01	1	0.800
EC1-15	2.5'	WIK (2001)	1/17/01	1	1.12
EC1-16	2.5'	WIK (2001)	1/17/01	1	>10
EC1-17	2.5'	WIK (2001)	1/17/01	1	ND
EC1-19	2.5'	WIK (2001)	1/17/01	1	ND
EC1-20	2.5'	WIK (2001)	1/17/01	1	>10
EC1-21	2.5'	WIK (2001)	1/17/01	1	2.140
EC1-24	4'	WIK (2001)	1/17/01	1	ND
EC1-25	4'	WIK (2001)	1/17/01	1	ND
EC1-26	4'	WIK (2001)	1/17/01	1	ND
EC1-27	4'	WIK (2001)	1/17/01	1	ND
EC1-28	4'	WIK (2001)	1/17/01	1	>10
EC1-29	4'	WIK (2001)	1/17/01	1	ND
EC1-30	4'	WIK (2001)	1/17/01	1	ND
EC1-31	4'	WIK (2001)	1/17/01	1	ND
EC1-32	4'	WIK (2001)	1/17/01	1	2.5
EC1-33	2.5'	WIK (2001)	1/17/01	1	>10
EC1-34	4'	WIK (2001)	1/17/01	1	1.2
EC1-35	4'	WIK (2001)	1/17/01	1	ND
EC1-36	4'	WIK (2001)	1/17/01	1	4.7
EC1-38	4'	WIK (2001)	1/17/01	1	0.6
EC1-39	4'	WIK (2001)	1/17/01	1	ND
EC1-40	4'	WIK (2001)	1/17/01	1	ND
EC1-41	4'	WIK (2001)	1/17/01	1	ND
EC1-43	2.5'	WIK (2001)	1/17/01	1	>10

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

WIK (1996) - Remedial Investigation of The Estate of Lester Nolan Landfill. WIK 1996.

Qualifiers:
ND - compound was not detected
Bold - concentration exceeds URS
nca - no criteria available
italicized - sample has been removed

Table 3
PCB Screening Data
The Estate of Lester Nolan Landfill
Wilmington, DE
SIRB ID: DE-0165

Sample ID	Sample Depth	Investigation Report	Sample Date	DNREC URS for Protection of Human Health (Non Unrestricted Use (mg/kg)	Total PCBs (mg/kg)
EC1-44	4'	WIK (2001)	1/17/01	1	>10
EC1-45	4'	WIK (2001)	1/17/01	1	ND
EC1-46	4'	WIK (2001)	1/17/01	1	3.02
EC1-47	4'	WIK (2001)	1/17/01	1	1.98
EC1-48	4'	WIK (2001)	1/17/01	1	0.56
EC1-49	4'	WIK (2001)	1/17/01	1	ND
EC1-51	4'	WIK (2001)	1/17/01	1	ND
EC1-52	4'	WIK (2001)	1/17/01	1	0.64
EC1-53	2.5'	WIK (2001)	1/17/01	1	2.320
EC1-54	4'	WIK (2001)	1/17/01	1	ND
EC1-55	4'	WIK (2001)	1/17/01	1	8.22
EC1-56	4'	WIK (2001)	1/17/01	1	ND
EC1-57	4'	WIK (2001)	1/17/01	1	2.34
EC1-59	4'	WIK (2001)	1/17/01	1	2.58
EC1-60	4'	WIK (2001)	1/17/01	1	ND
EC1-61	4'	WIK (2001)	1/17/01	1	ND
EC1-62	4'	WIK (2001)	1/17/01	1	6.720
EC1-63	4'	WIK (2001)	1/17/01	1	>10
EC1-64	4'	WIK (2001)	1/17/01	1	>10
EC1-65	4'	WIK (2001)	1/17/01	1	ND
EC1-66	4'	WIK (2001)	1/17/01	1	2.000
EC1-67	4'	WIK (2001)	1/17/01	1	7.38
EC1-68	4'	WIK (2001)	1/17/01	1	ND
EC1-69	4'	WIK (2001)	1/17/01	1	8.58
EC1-70	4'	WIK (2001)	1/17/01	1	9.58
EC1-71	4'	WIK (2001)	1/17/01	1	0.64
EC1-72	4'	WIK (2001)	1/17/01	1	>10
EC1-73	2.5'	WIK (2001)	1/17/01	1	>10
EC1-74	2.5'	WIK (2001)	1/17/01	1	>10
EC1-75	2.5'	WIK (2001)	1/17/01	1	5.64
EC1-76	2.5'	WIK (2001)	1/17/01	1	5.48
EC1-77	2.5'	WIK (2001)	1/24/01	1	3.24
EC1-78	2.5'	WIK (2001)	1/24/01	1	>30
EC1-79	2.5'	WIK (2001)	1/24/01	1	9.62
EC1-80	3'	WIK (2001)	1/24/01	1	>10<30
EC1-81	2.5'	WIK (2001)	1/24/01	1	ND
EC1-82	2.5'	WIK (2001)	1/24/01	1	ND
EC1-83	2.5'	WIK (2001)	1/24/01	1	0.78
EC1-84	3'	WIK (2001)	1/24/01	1	ND
EC1-85	4.5'	WIK (2001)	1/24/01	1	ND
EC1-86	4.5'	WIK (2001)	1/24/01	1	2.46
EC1-88	4.5'	WIK (2001)	1/24/01	1	>10
EC1-89	2.5'	WIK (2001)	1/24/01	1	3.080
EC1-90	2.5'	WIK (2001)	1/24/01	1	ND
EC1-91	2.5'	WIK (2001)	1/24/01	1	1.960
EC1-92	2.5'	WIK (2001)	1/24/01	1	ND
EC1-93	4'	WIK (2001)	1/24/01	1	ND
EC1-95	4'	WIK (2001)	1/24/01	1	>10<30
EC1-96	2.5'	WIK (2001)	1/24/01	1	ND
EC1-97	4'	WIK (2001)	1/24/01	1	ND
EC1-98	2.5'	WIK (2001)	1/24/01	1	ND
EC1-99	4'	WIK (2001)	1/24/01	1	ND
EC2-1	1.0'	WIK (2001)	1/17/01	1	2.120
EC2-10	2'	WIK (2001)	1/17/01	1	1.360
EC2-11	2'	WIK (2001)	1/17/01	1	ND
EC2-12	1.0'	WIK (2001)	1/17/01	1	ND

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

WIK (1996) - Remedial Investigation of The Estate of Lester Nolan Landfill. WIK 1996.

Qualifiers:

ND - compound was not detected

Bold - concentration exceeds URS

nca - no criteria available

italicized - sample has been removed

Table 3
PCB Screening Data
The Estate of Lester Nolan Landfill
Wilmington, DE
SIRB ID: DE-0165

Sample ID	Sample Depth	Investigation Report	Sample Date	DNREC URS for Protection of Human Health (Non Unrestricted Use (mg/kg)	Total PCBs (mg/kg)
EC2-13	1.0'	WIK (2001)	1/17/01	1	ND
EC2-14	1.0'	WIK (2001)	1/17/01	1	0.780
EC2-15	1.0'	WIK (2001)	1/17/01	1	>10
EC2-16	1.0'	WIK (2001)	1/17/01	1	ND
EC2-17	1.5'	WIK (2001)	1/17/01	1	ND
EC2-19	1.5'	WIK (2001)	1/17/01	1	ND
EC2-2	1.0'	WIK (2001)	1/17/01	1	ND
EC2-20	1.5'	WIK (2001)	1/17/01	1	ND
EC2-22	1.5'	WIK (2001)	1/17/01	1	ND
EC2-23	3.0'	WIK (2001)	1/17/01	1	ND
EC2-24	3.0'	WIK (2001)	1/17/01	1	ND
EC2-26	3.0'	WIK (2001)	1/17/01	1	ND
EC2-27	1.5'	WIK (2001)	1/17/01	1	9.080
EC2-28	3.0'	WIK (2001)	1/17/01	1	ND
EC2-29	3.0'	WIK (2001)	1/17/01	1	ND
EC2-3	1.0'	WIK (2001)	1/17/01	1	5.560
EC2-30	3.0'	WIK (2001)	1/17/01	1	ND
EC2-31	3.0'	WIK (2001)	1/17/01	1	ND
EC2-32	1.5'	WIK (2001)	1/17/01	1	ND
EC2-33	3.0'	WIK (2001)	1/17/01	1	ND
EC2-34	3.0'	WIK (2001)	1/17/01	1	>10
EC2-35	3.0'	WIK (2001)	1/17/01	1	ND
EC2-36	3.0'	WIK (2001)	1/17/01	1	2.200
EC2-37	1.5'	WIK (2001)	1/17/01	1	ND
EC2-38	3.0'	WIK (2001)	1/17/01	1	ND
EC2-39	3.0'	WIK (2001)	1/17/01	1	ND
EC2-4	1.0'	WIK (2001)	1/17/01	1	0.056
EC2-40	3.0'	WIK (2001)	1/17/01	1	ND
EC2-44	3.0'	WIK (2001)	1/17/01	1	1.400
EC2-45	3.0'	WIK (2001)	1/17/01	1	ND
EC2-46	3.0'	WIK (2001)	1/17/01	1	ND
EC2-47	3.0'	WIK (2001)	1/24/01	1	ND
EC2-48	3.0'	WIK (2001)	1/24/01	1	ND
EC2-49	3.0'	WIK (2001)	1/24/01	1	ND
EC2-5	1.0'	WIK (2001)	1/17/01	1	ND
EC2-6	2.0'	WIK (2001)	1/17/01	1	7.120
EC2-7	2.0'	WIK (2001)	1/17/01	1	ND
EC2-8	1.0'	WIK (2001)	1/17/01	1	ND
TP24	2.5'	WIK (1996)	10/12/95	1	ND

WIK (2001) - Supplemental PCB Soil Removal and Sampling. WIK Associates 2001.

WIK (1996) - Remedial Investigation of The Estate of Lester Nolan Landfill. WIK 1996.

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Site Photographs

BrightFields, Inc.

PCB Mass Loading Evaluation
The Estate of Lester Nolan

Landfill cover material facing north.

Bare spots in the imported fill material, which is serving as part of the cap cover system.

BrightFields, Inc.

PCB Mass Loading Evaluation
The Estate of Lester Nolan

Landfill cover material facing south.

Highly vegetated area along the south side perimeter of the landfill.

BrightFields, Inc.

Overland Flow Calculations

(Not Applicable)

BrightFields, Inc.

Groundwater Transport Calculations

(Not Applicable)