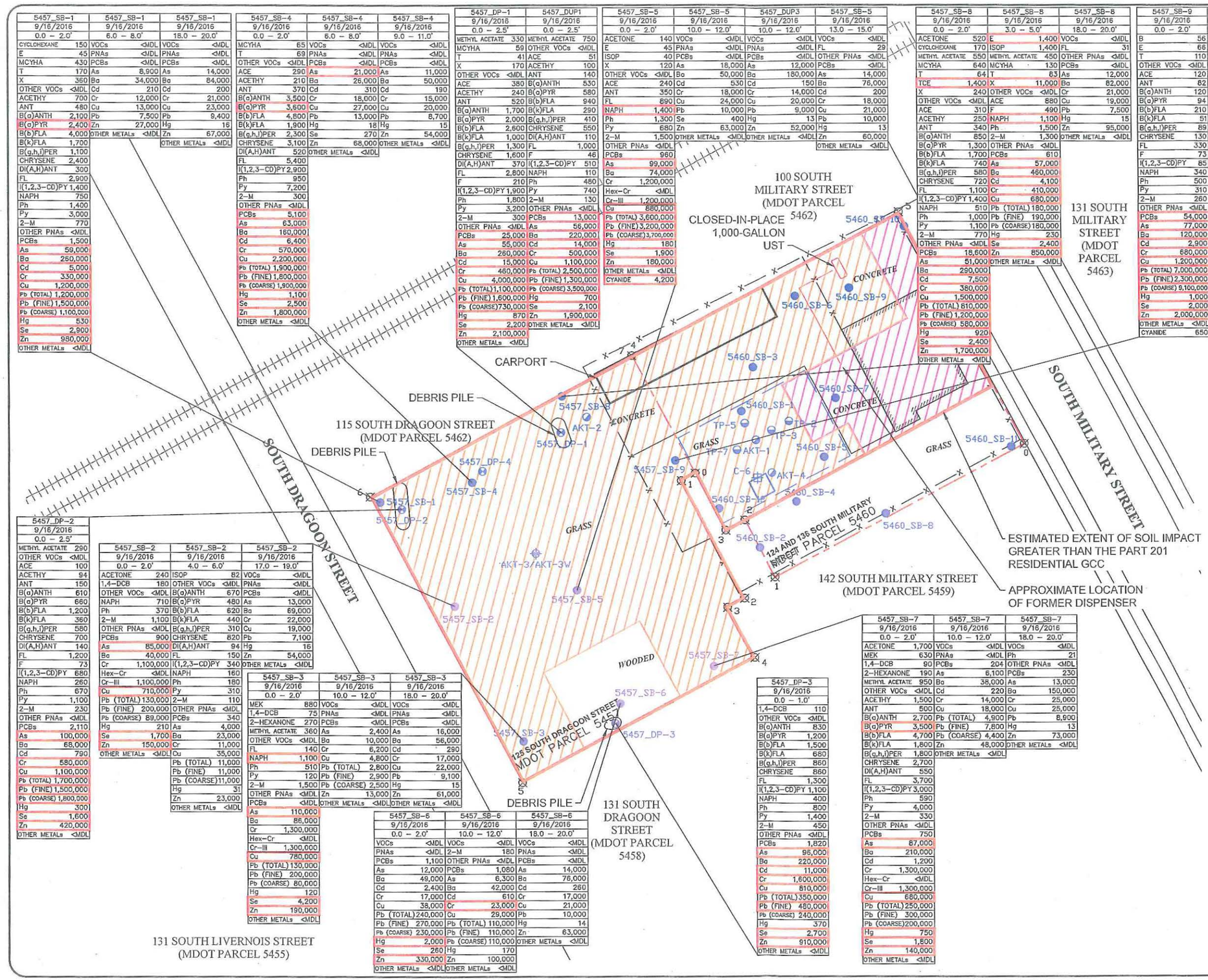


5457_SB-1	5457_SB-1	5457_SB-1
9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	6.0 – 8.0'	18.0 – 20.0'
CYCLOHEXANE 150	VOCs <MDL	VOCs <MDL
E 45	PNAs <MDL	PNAs <MDL
MCYHA 430	PCBs <MDL	PCBs <MDL
T 170	As 8,900	As 14,000
X 360	Ba 34,000	Ba 84,000
OTHER VOCs <MDL	Cd 210	Cd 200
ACETHY 700	Cr 12,000	Cr 21,000
ANT 480	Cu 13,000	Cu 23,000
B(a)ANTH 2,100	Pb 7,500	Pb 9,400
B(a)PYR 2,400	Zn 27,000	Hg 16
B(b)FLA 4,000	OTHER METALs <MDL	Zn 67,000
B(k)FLA 1,700		OTHER METALs <MDL
B(g,h,i)PER 1,100		
CHRYSENE 2,400		
DI(A,H)ANT 300		
FL 2,900		
I(1,2,3-CD)PY 1,400		
NAPH 750		
Ph 1,400		
Py 3,000		
2-M 770		
OTHER PNAs <MDL		
PCBs 1,500		
As 59,000		
Ba 260,000		
Cd 5,000		
Cr 330,000		
Cu 1,200,000		
Pb (TOTAL) 1,200,000		
Pb (FINE) 1,500,000		
Pb (COARSE) 1,100,000		
Hg 530		
Se 2,900		
Zn 980,000		
OTHER METALs <MDL		

5457_SB-4	5457_SB-4	5457_SB-4
9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	6.0 – 8.0'	9.0 – 11.0'
MCYHA 65	VOCs <MDL	VOCs <MDL
T 69	PNAs <MDL	PNAs <MDL
OTHER VOCs <MDL	PCBs <MDL	PCBs <MDL
ACE 290	As 21,000	As 11,000
ACETHY 210	Ba 26,000	Ba 50,000
ANT 370	Cd 310	Cd 190
B(a)ANTH 3,500	Cr 18,000	Cr 15,000
B(a)PYR 3,600	Cu 27,000	Cu 20,000
B(b)FLA 4,800	Pb 13,000	Pb 8,700
B(k)FLA 1,900	Hg 18	Hg 15
B(g,h,i)PER 2,300	Se 270	Zn 54,000
CHRYSENE 3,100	Zn 68,000	OTHER METALs <MDL
DI(A,H)ANT 520	OTHER METALs <MDL	
FL 5,400		
I(1,2,3-CD)PY 2,900		
Ph 950		
Py 7,200		
2-M 300		
OTHER PNAs <MDL		
PCBs 5,100		
As 63,000		
Ba 160,000		
Cd 6,400		
Cr 570,000		
Cu 2,200,000		
Pb (TOTAL) 1,900,000		
Pb (FINE) 1,800,000		
Pb (COARSE) 1,900,000		
Hg 1,100		
Se 2,500		
Zn 1,800,000		
OTHER METALs <MDL		

5457_DP-1	5457_DUP1
9/16/2016	9/16/2016
0.0 – 2.5'	0.0 – 2.5'
METHYL ACETATE 330	METHYL ACETATE 750
MCYHA 59	OTHER VOCs <MDL
T 41	ACE 51
X 170	ACETHY 100
OTHER VOCs <MDL	ANT 140
ACE 380	B(a)ANTH 530
ACETHY 240	B(a)PYR 580
ANT 520	B(b)FLA 940
B(a)ANTH 1,700	B(k)FLA 290
B(a)PYR 2,000	B(g,h,i)PER 410
B(b)FLA 2,600	CHRYSENE 550
B(k)FLA 1,000	DI(A,H)ANT 110
B(g,h,i)PER 1,300	FL 1,000
CHRYSENE 1,600	F 46
DI(A,H)ANT 370	I(1,2,3-CD)PY 510
FL 2,800	NAPH 110
F 210	Ph 480
I(1,2,3-CD)PY 1,900	Py 740
Ph 1,800	2-M 130
Py 3,200	OTHER PNAs <MDL
2-M 300	PCBs 13,000
OTHER PNAs <MDL	As 56,000
PCBs 25,000	Ba 220,000
As 55,000	Cd 14,000
Ba 260,000	Cr 500,000
Cd 15,000	Cu 1,100,000
Cr 460,000	Pb (TOTAL) 2,500,000
Cu 4,000,000	Pb (FINE) 1,300,000
Pb (TOTAL) 1,100,000	Pb (COARSE) 3,500,000
Pb (FINE) 1,600,000	Hg 700
Pb (COARSE) 730,000	Se 2,100
Hg 870	Zn 1,900,000
Se 2,200	OTHER METALs <MDL
Zn 2,100,000	
OTHER METALs <MDL	

5457_SB-5	5457_SB-5	5457_DUP3	5457_SB-5
9/16/2016	9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	10.0 – 12.0'	10.0 – 12.0'	13.0 – 15.0'
ACETONE 140	VOCs <MDL	VOCs <MDL	VOCs <MDL
E 45	PNAs <MDL	PNAs <MDL	FL 29
ISOP 40	PCBs <MDL	PCBs <MDL	OTHER PNAs <MDL
X 120	As 18,000	As 12,000	PCBs <MDL
OTHER VOCs <MDL	Ba 50,000	Ba 180,000	As 14,000
ACE 240	Cd 530	Cd 150	Ba 76,000
ANT 350	Cr 18,000	Cr 14,000	Cd 200
FL 890	Cu 24,000	Cu 20,000	Cr 18,000
NAPH 1,400	Pb 10,000	Pb 9,000	Cu 21,000
Ph 1,300	Se 400	Hg 13	Pb 10,000
Py 680	Zn 63,000	Zn 52,000	Hg 13
2-M 1,500	OTHER METALs <MDL	OTHER METALs <MDL	Zn 60,000
OTHER PNAs <MDL			OTHER METALs <MDL
PCBs 960			
As 99,000			
Ba 74,000			
Cr 1,200,000			
Hex-Cr <MDL			
Cr-III 1,200,000			
Cu 880,000			
Pb (TOTAL) 3,600,000			
Pb (FINE) 3,200,000			
Pb (COARSE) 3,700,000			
Hg 180			
Se 1,900			
Zn 180,000			
OTHER METALs <MDL			
CYANIDE 4,200			

5457_SB-8	5457_SB-8	5457_SB-8
9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	3.0 – 5.0'	18.0 – 20.0'
ACETONE 520	E 1,400	VOCs <MDL
CYCLOHEXANE 170	ISOP 1,400	FL 31
METHYL ACETATE 550	METHYL ACETATE 450	OTHER PNAs <MDL
MCYHA 640	MCYHA 130	PCBs <MDL
T 64	T 83	As 12,000
TCE 1,400	X 11,000	Ba 82,000
X 240	OTHER VOCs <MDL	Cr 21,000
OTHER VOCs <MDL	ACE 680	Cu 19,000
ACE 310	F 490	Pb 7,500
ACETHY 250	NAPH 1,100	Hg 15
ANT 340	Ph 1,500	Zn 95,000
B(a)ANTH 850	2-M 1,300	OTHER METALs <MDL
B(a)PYR 1,300	OTHER PNAs <MDL	
B(b)FLA 1,700	PCBs 610	
B(k)FLA 740	As 57,000	
B(g,h,i)PER 580	Ba 460,000	
CHRYSENE 720	Cd 4,100	
FL 1,100	Cr 410,000	
I(1,2,3-CD)PY 1,400	Cu 680,000	
NAPH 510	Pb (TOTAL) 180,000	
Ph 1,000	Pb (FINE) 190,000	
Py 1,100	Pb (COARSE) 180,000	
2-M 770	Hg 230	
OTHER PNAs <MDL	Se 2,400	
PCBs 18,600	Zn 850,000	
As 51,000	OTHER METALs <MDL	
Ba 290,000		
Cd 7,500		
Cr 380,000		
Cu 1,500,000		
Pb (TOTAL) 810,000		
Pb (FINE) 1,200,000		
Pb (COARSE) 580,000		
Hg 920		
Se 2,400		
Zn 1,700,000		
OTHER METALs <MDL		

5457_SB-9	5457_SB-9	5457_SB-9	5457_DUP2
9/16/2016	9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	9.0 – 11.0'	17.0 – 19.0'	17.0 – 19.0'
B 56	VOCs <MDL	VOCs <MDL	VOCs <MDL
E 66	FL 29	PNAs <MDL	PNAs <MDL
T 110	OTHER PNAs <MDL	OTHER PNAs <MDL	PCBs <MDL
OTHER VOCs <MDL	PCBs <MDL	PCBs <MDL	As 9,600
ACE 120	As 8,300	As 14,000	Ba 37,000
ANT 82	Ba 52,000	Ba 43,000	Cd 160
B(a)ANTH 120	Cd 180	Cd 210	Cr 18,000
B(a)PYR 94	Cr 13,000	Cr 16,000	Cu 29,000
B(b)FLA 210	Cu 19,000	Cu 23,000	Pb 13,000
B(k)FLA 51	Pb 9,200	Pb 10,000	Hg 21
B(g,h,i)PER 89	Zn 48,000	Hg 14	Zn 62,000
CHRYSENE 130	OTHER METALs <MDL	Zn 60,000	OTHER METALs <MDL
FL 330	CYANIDE 150	OTHER METALs <MDL	
F 73		CYANIDE 250	
I(1,2,3-CD)PY 85			
NAPH 340			
Ph 500			
Py 310			
2-M 260			
OTHER PNAs <MDL			
PCBs 54,000			
As 77,000			
Ba 120,000			
Cd 2,900			
Cr 680,000			
Cu 1,200,000			
Pb (TOTAL) 7,000,000			
Pb (FINE) 2,300,000			
Pb (COARSE) 9,100,000			
Hg 1,000			
Se 2,000			
Zn 2,000,000			
OTHER METALs <MDL			
CYANIDE 650			

5457_DP-2
9/16/2016
0.0 – 2.5'
METHYL ACETATE 290
OTHER VOCs <MDL
ACE 100
ACETHY 94
ANT 150
B(a)ANTH 610
B(a)PYR 660
B(b)FLA 1,200
B(k)FLA 360
B(g,h,i)PER 560
CHRYSENE 700
DI(A,H)ANT 140
FL 1,200
F 73
I(1,2,3-CD)PY 680
NAPH 260
Ph 670
Py 1,100
2-M 230
OTHER PNAs <MDL
PCBs 2,110
As 100,000
Ba 68,000
Cd 790
Cr 580,000
Cu 1,100,000
Pb (TOTAL) 1,700,000
Pb (FINE) 1,500,000
Pb (COARSE) 1,800,000
Hg 300
Se 1,600
Zn 420,000
OTHER METALs <MDL

5457_SB-2	5457_SB-2	5457_SB-2
9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	4.0 – 6.0'	17.0 – 19.0'
ACETONE 240	ISOP 82	VOCs <MDL
1,4-DCB 180	OTHER VOCs <MDL	PNAs <MDL
OTHER VOCs <MDL	B(a)ANTH 670	PCBs <MDL
NAPH 710	B(a)PYR 480	As 13,000
Ph 370	B(b)FLA 620	Ba 69,000
2-M 1,100	B(k)FLA 440	Cr 22,000
OTHER PNAs <MDL	B(g,h,i)PER 310	Cu 19,000
PCBs 900	CHRYSENE 820	Pb 7,100
As 85,000	DI(A,H)ANT 94	Hg 16
Ba 40,000	FL 150	Zn 54,000
Cr 1,100,000	I(1,2,3-CD)PY 340	OTHER METALs <MDL
Hex-Cr <MDL	NAPH 160	
Cr-III 1,100,000	Ph 180	
Cu 710,000	Py 310	
Pb (TOTAL) 130,000	2-M 110	
Pb (FINE) 200,000	OTHER PNAs <MDL	
Pb (COARSE) 89,000	PCBs 340	
Hg 210	As 4,000	
Se 1,700	Ba 23,000	
Zn 150,000	Cr 11,000	
OTHER METALs <MDL	Cu 35,000	
	Pb (TOTAL) 11,000	
	Pb (FINE) 11,000	
	Pb (COARSE) 11,000	
	Hg 31	
	Zn 23,000	
	OTHER METALs <MDL	

5457_SB-3	5457_SB-3	5457_SB-3
9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	10.0 – 12.0'	18.0 – 20.0'
MEK 880	VOCs <MDL	VOCs <MDL
1,4-DCB 75	PNAs <MDL	PNAs <MDL
2-HEXANONE 270	PCBs <MDL	PCBs <MDL
METHYL ACETATE 360	As 2,400	As 16,000
OTHER VOCs <MDL	Ba 10,000	Ba 56,000
FL 140	Cr 6,200	Cd 290
NAPH 1,100	Cu 4,800	Cr 17,000
Ph 510	Pb (TOTAL) 2,800	Cu 22,000
Py 120	Pb (FINE) 2,900	Pb 9,100
2-M 1,500	Pb (COARSE) 2,500	Hg 15
OTHER PNAs <MDL	Zn 13,000	Zn 61,000
PCBs <MDL	OTHER METALs <MDL	OTHER METALs <MDL
As 110,000		
Ba 86,000		
Cr 1,300,000		
Hex-Cr <MDL		
Cr-III 1,300,000		
Cu 780,000		
Pb (TOTAL) 130,000		
Pb (FINE) 200,000		
Pb (COARSE) 80,000		
Hg 120		
Se 4,200		
Zn 190,000		
OTHER METALs <MDL		

5457_SB-6	5457_SB-6	5457_SB-6
9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	10.0 – 12.0'	18.0 – 20.0'
VOCs <MDL	VOCs <MDL	VOCs <MDL
PNAs <MDL	2-M 180	PNAs <MDL
PCBs 1,100	OTHER PNAs <MDL	PCBs <MDL
As 12,000	PCBs 1,080	As 14,000
Ba 49,000	As 6,300	Ba 76,000
Cd 2,400	Ba 42,000	Cd 260
Cr 17,000	Cd 610	Cr 17,000
Cu 38,000	Cr 23,000	Cu 21,000
Pb (TOTAL) 240,000	Cu 29,000	Pb 10,000
Pb (FINE) 270,000	Pb (TOTAL) 110,000	Hg 14
Pb (COARSE) 230,000	Pb (FINE) 110,000	Zn 63,000
Hg 2,000	Pb (COARSE) 110,000	OTHER METALs <MDL
Se 260	Hg 170	
Zn 330,000	Zn 100,000	
OTHER METALs <MDL	OTHER METALs <MDL	

5457_DP-3
9/16/2016
0.0 – 1.0'
1,4-DCB 110
OTHER VOCs <MDL
B(a)ANTH 830
B(a)PYR 1,200
B(b)FLA 1,500
B(k)FLA 680
B(g,h,i)PER 860
CHRYSENE 860
FL 1,300
I(1,2,3-CD)PY 1,100
NAPH 400
Ph 800
Py 1,400
2-M 450
OTHER PNAs <MDL
PCBs 1,820
As 96,000
Ba 220,000
Cd 11,000
Cr 1,600,000
Cu 810,000
Pb (TOTAL) 350,000
Pb (FINE) 460,000
Pb (COARSE) 240,000
Hg 370
Se 2,700
Zn 910,000
OTHER METALs <MDL

5457_SB-7	5457_SB-7	5457_SB-7
9/16/2016	9/16/2016	9/16/2016
0.0 – 2.0'	10.0 – 12.0'	18.0 – 20.0'
ACETONE 1,700	VOCs <MDL	VOCs <MDL
MEK 630	PNAs <MDL	Ph 21
1,4-DCB 90	PCBs 204	OTHER PNAs <MDL
2-HEXANONE 190	As 6,100	PCBs 230
METHYL ACETATE 950	Ba 38,000	As 13,000
OTHER VOCs <MDL	Cd 220	Ba 150,000
ACETHY 1,500	Cr 14,000	Cr 25,000
ANT 500	Cu 18,000	Cu 25,000
B(a)ANTH 2,700	Pb (TOTAL) 4,900	Pb 8,900
B(a)PYR 3,500	Pb (FINE) 7,800	Hg 13
B(b)FLA 4,700	Pb (COARSE) 4,400	Zn 73,000
B(k)FLA 1,800	Zn 48,000	OTHER METALs <MDL
B(g,h,i)PER 1,800	OTHER METALs <MDL	
CHRYSENE 2,700		
DI(A,H)ANT 550		
FL 3,700		
I(1,2,3-CD)PY 3,000		
Ph 590		
Py 4,000		
2-M 330		
OTHER PNAs <MDL		
PCBs 750		
As 87,000		
Ba 210,000		
Cd 1,200		
Cr 1,300,000		
Hex-Cr <MDL		
Cr-III 1,300,000		
Cu 680,000		
Pb (TOTAL) 250,000		
Pb (FINE) 300,000		
Pb (COARSE) 200,000		
Hg 750		
Se 1,800		
Zn 140,000		
OTHER METALs <MDL		

LEGEND:

- SUBJECT PROPERTY
- FENCE
- RAIL ROAD TRACKS
- EXCAVATION LIMITS
- PARCEL CORNER
- SOIL BORING
- DEBRIS PILE SAMPLE
- AKT PEERLESS SOIL BORING
- AKT PEERLESS TEMPORARY MONITORING WELL
- AKT PEERLESS TEST PIT SAMPLE
- McDOWELL & ASSOCIATES SOIL VERIFICATION SAMPLE
- ESTIMATED EXTENT OF SOIL IMPACT GREATER THAN THE MDEQ PART 201 RESIDENTIAL AND NON RESIDENTIAL SVII, VSI, APSI, AND/OR DC GCC
- ESTIMATED EXTENT OF SOIL IMPACT GREATER THAN THE MDEQ PART 201 RESIDENTIAL DC GCC

As	ARSENIC
Ba	BARIUM
Cd	CADMIUM
Cr	CHROMIUM
Hex-Cr	HEXAVALENT CHROMIUM
Cr-III	CHROMIUM III
Pb	LEAD
Cu	COPPER
Hg	MERCURY
Se	SELENIUM
Ag	SILVER
Zn	ZINC
ACE	ACENAPHTHENE
ACETHY	ACENAPHTHYLENE
ANT	ANTHRACENE
B(a)ANTH	BENZO(a)ANTHRACENE
B(a)PYR	BENZO(a)PYRENE
B(b)FLA	BENZO(b)FLUORANTHENE
B(g,h,i)PER	BENZO(g,h,i)PERYLENE
B(k)FLA	BENZO(k)FLUORANTHENE
F	FLUORENE
FL	FLUORANTHENE
I(1,2,3-CD)PY	INDENO(1,2,3,CD)PYRENE
2-M	2-METHYLNAPHTHALENE
NAPH	NAPHTHALENE
Ph	PHENANTHRENE
Py	PYRENE
DI(A,H)ANT	DIBENZO(a,h)ANTHRACENE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
ISOP	ISOPROPYLBENZENE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
1,4-DCB	1,4-DICHLOROBENZENE
MCYHA	METHYLCYCLOHEXANE
MEK	2-BUTANONE (MEK)
VOCs	VOLATILE ORGANIC COMPOUNDS
PNAs	POLYNUCLEAR AROMATIC COMPOUNDS
PCBs	POLYCHLORINATED BIPHENYLS
MDL	METHOD DETECTION LIMIT
UNITs	µg/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

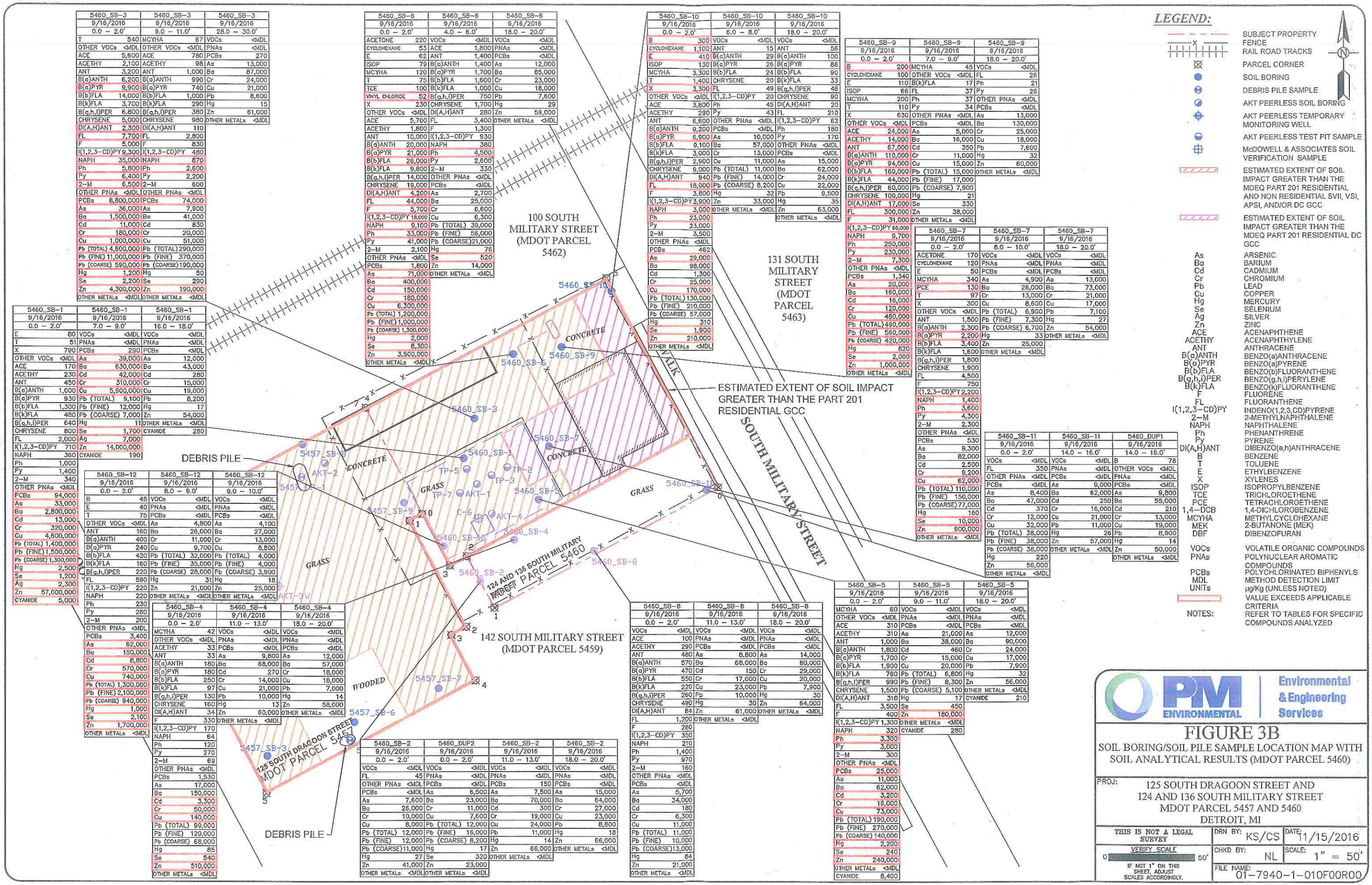
PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 3A

SOIL BORING/SOIL PILE SAMPLE LOCATION MAP WITH SOIL ANALYTICAL RESULTS (MDOT PARCEL 5457)

PROJ: 125 SOUTH DRAGOON STREET AND 124 AND 136 SOUTH MILITARY STREET MDOT PARCEL 5457 AND 5460 DETROIT, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: KS/CS	DATE: 11/15/2016
VERIFY SCALE 0 50'	CHKD BY: NL	SCALE: 1" = 50'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	FILE NAME: 01-7940-1-010F00R00	



5460_SB-3		5460_SB-3		5460_SB-3	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		9.0 – 11.0'		28.0 – 30.0'	
T	540	MCYHA	67	VOCs	<MDL
OTHER VOCs	<MDL	OTHER VOCs	<MDL	PNAs	<MDL
ACE	5,600	ACE	780	PCBs	270
ACETHY	2,100	ACETHY	98	As	13,000
ANT	3,200	ANT	1,000	Ba	87,000
B(a)ANTH	6,200	B(a)ANTH	990	Cr	24,000
B(a)PYR	9,900	B(a)PYR	740	Cu	21,000
B(b)FLA	14,000	B(b)FLA	1,000	Pb	8,600
B(k)FLA	3,700	B(k)FLA	290	Hg	15
B(g,h,i)PER	6,800	B(g,h,i)PER	380	Zn	61,000
CHRYSENE	5,000	CHRYSENE	980	OTHER METALs	<MDL
DI(A,H)ANT	2,300	DI(A,H)ANT	110		
FL	7,700	FL	2,800		
F	5,000	F	830		
I(1,2,3–CD)PY	9,300	I(1,2,3–CD)PY	480		
NAPH	35,000	NAPH	870		
Ph	5,800	Ph	2,600		
Py	6,400	Py	2,200		
2–M	6,500	2–M	600		
OTHER PNAs	<MDL	OTHER PNAs	<MDL		
PCBs	8,800,000	PCBs	74,000		
As	36,000	As	7,900		
Ba	1,500,000	Ba	41,000		
Cd	11,000	Cd	830		
Cr	180,000	Cr	20,000		
Cu	1,600,000	Cu	51,000		
Pb (TOTAL)	4,600,000	Pb (TOTAL)	290,000		
Pb (FINE)	11,000,000	Pb (FINE)	370,000		
Pb (COARSE)	590,000	Pb (COARSE)	190,000		
Hg	1,200	Hg	50		
Se	2,200	Se	290		
Zn	4,300,000	Zn	190,000		
OTHER METALs	<MDL	OTHER METALs	<MDL		

5460_SB-1		5460_SB-1		5460_SB-1	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		7.0 – 9.0'		16.0 – 18.0'	
E	80	VOCs	<MDL	VOCs	<MDL
T	51	PNAs	<MDL	PNAs	<MDL
X	790	PCBs	290	PCBs	<MDL
OTHER VOCs	<MDL	As	39,000	As	12,000
ACE	170	Ba	630,000	Ba	43,000
ACETHY	230	Cd	42,000	Cd	280
ANT	450	Cr	310,000	Cr	15,000
B(a)ANTH	1,000	Cu	5,900,000	Cu	19,000
B(a)PYR	930	Pb (TOTAL)	9,100	Pb	8,200
B(b)FLA	1,300	Pb (FINE)	12,000	Hg	17
B(k)FLA	480	Pb (COARSE)	7,000	Zn	54,000
B(g,h,i)PER	640	Hg	11	OTHER METALs	<MDL
CHRYSENE	800	Se	1,700	CYANIDE	280
FL	2,000	Ag	7,000		
I(1,2,3–CD)PY	710	Zn	14,000,000		
NAPH	360	CYANIDE	190		
Ph	1,000				
Py	1,400				
2–M	340				
OTHER PNAs	<MDL				
PCBs	94,000				
As	33,000				
Ba	2,800,000				
Cd	13,000				
Cr	320,000				
Cu	4,600,000				
Pb (TOTAL)	1,400,000				
Pb (FINE)	1,500,000				
Pb (COARSE)	1,300,000				
Hg	2,500				
Se	1,200				
Ag	2,300				
Zn	57,000,000				
CYANIDE	5,000				

5460_SB-12		5460_SB-12		5460_SB-12	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		8.0 – 9.0'		9.0 – 10.0'	
B	48	VOCs	<MDL	VOCs	<MDL
E	40	PNAs	<MDL	PNAs	<MDL
T	75	PCBs	<MDL	PCBs	<MDL
OTHER VOCs	<MDL	As	4,800	As	4,100
ANT	160	Ba	26,000	Ba	27,000
B(a)ANTH	400	Cr	11,000	Cr	13,000
B(a)PYR	240	Cu	9,700	Cu	8,800
B(b)FLA	420	Pb (TOTAL)	32,000	Pb (TOTAL)	4,000
B(k)FLA	160	Pb (FINE)	35,000	Pb (FINE)	4,000
B(g,h,i)PER	220	Pb (COARSE)	28,000	Pb (COARSE)	3,900
FL	590	Hg	31	Hg	18
I(1,2,3–CD)PY	220	Zn	21,000	Zn	25,000
NAPH	220	OTHER METALs	<MDL	OTHER METALs	<MDL
Ph	230				
Py	280				
2–M	200				
OTHER PNAs	<MDL				
PCBs	3,400				
As	62,000				
Ba	150,000				
Cd	8,800				
Cr	570,000				
Cu	740,000				
Pb (TOTAL)	1,300,000				
Pb (FINE)	2,100,000				
Pb (COARSE)	940,000				
Hg	1,000				
Se	2,100				
Zn	1,700,000				
OTHER METALs	<MDL				

5460_SB-4		5460_SB-4		5460_SB-4	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		11.0 – 13.0'		18.0 – 20.0'	
MCYHA	42	VOCs	<MDL	VOCs	<MDL
OTHER VOCs	<MDL	PNAs	<MDL	PNAs	<MDL
ACETHY	33	PCBs	<MDL	PCBs	<MDL
ANT	33	As	9,800	As	12,000
B(a)ANTH	180	Ba	68,000	Ba	57,000
B(a)PYR	180	Cd	270	Cr	18,000
B(b)FLA	250	Cr	14,000	Cu	18,000
B(k)FLA	97	Cu	21,000	Pb	7,000
B(g,h,i)PER	130	Pb	10,000	Hg	14
CHRYSENE	160	Hg	13	Zn	58,000
DI(A,H)ANT	34	Zn	60,000	OTHER METALs	<MDL
F	330	OTHER METALs	<MDL		
I(1,2,3–CD)PY	170				
NAPH	64				
Ph	120				
Py	270				
2–M	69				
OTHER PNAs	<MDL				
PCBs	1,530				
As	17,000				
Ba	150,000				
Cd	3,300				
Cr	50,000				
Cu	140,000				
Pb (TOTAL)	99,000				
Pb (FINE)	120,000				
Pb (COARSE)	68,000				
Hg	85				
Se	540				
Zn	510,000				
OTHER METALs	<MDL				

5460_SB-6		5460_SB-6		5460_SB-6	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		4.0 – 6.0'		18.0 – 20.0'	
ACETONE	220	VOCs	<MDL	VOCs	<MDL
CYCLOHEXANE	53	ACE	1,800	PNAs	<MDL
E	62	ANT	1,400	PCBs	<MDL
ISOP	79	B(a)ANTH	1,400	As	12,000
MCYHA	120	B(a)PYR	1,700	Ba	85,000
T	75	B(b)FLA	1,600	Cr	23,000
TCE	100	B(k)FLA	1,000	Cu	18,000
VINYL CHLORIDE	52	B(g,h,i)PER	750	Pb	7,600
X	230	CHRYSENE	1,700	Hg	29
OTHER VOCs	<MDL	DI(A,H)ANT	280	Zn	59,000
ACE	5,700	FL	3,400	OTHER METALs	<MDL
ACETHY	1,800	F	1,300		
ANT	10,000	I(1,2,3–CD)PY	930		
B(a)ANTH	20,000	NAPH	380		
B(a)PYR	21,000	Ph	4,500		
B(b)FLA	28,000	Py	2,600		
B(k)FLA	9,800	2–M	330		
B(g,h,i)PER	14,000	OTHER PNAs	<MDL		
CHRYSENE	19,000	PCBs	<MDL		
DI(A,H)ANT	4,200	As	2,700		
FL	44,000	Ba	25,000		
F	5,700	Cr	6,600		
I(1,2,3–CD)PY	18,000	Cu	6,300		
NAPH	9,100	Pb (TOTAL)	39,000		
Ph	33,000	Pb (FINE)	56,000		
Py	41,000	Pb (COARSE)	21,000		
2–M	2,100	Hg	76		
OTHER PNAs	<MDL	Se	520		
PCBs	1,800	Zn	14,000		
As	71,000	OTHER METALs	<MDL		
Ba	400,000				
Cd	150,000				
Cr	180,000				
Cu	6,300,000				
Pb (TOTAL)	1,200,000				
Pb (FINE)	1,000,000				
Pb (COARSE)	1,300,000				
Hg	2,000				
Se	6,300				
Zn	3,500,000				
OTHER METALs	<MDL				

5460_SB-2		5460_DUP2		5460_SB-2		5460_SB-2	
9/16/2016		9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		0.0 – 2.0'		11.0 – 13.0'		18.0 – 20.0'	
VOCs	<MDL	VOCs	<MDL	VOCs	<MDL	VOCs	<MDL
FL	45	PNAs	<MDL	PNAs	<MDL	PNAs	<MDL
OTHER PNAs	<MDL	PCBs	<MDL	PCBs	150	PCBs	<MDL
PCBs	<MDL	As	6,500	As	7,500	As	15,000
As	7,600	Ba	23,000	Ba	70,000	Ba	64,000
Ba	26,000	Cr	11,000	Cd	300	Cr	27,000
Cr	10,000	Cu	7,600	Cr	19,000	Cu	23,000
Cu	8,000	Pb (TOTAL)	12,000	Cu	24,000	Pb	8,800
Pb (TOTAL)	12,000	Pb (FINE)	16,000	Pb	11,000	Hg	18
Pb (FINE)	12,000	Pb (COARSE)	8,200	Hg	14	Zn	66,000
Pb (COARSE)	11,000	Hg	17	Zn	66,000	OTHER METALs	<MDL
Hg	27	Se	320	OTHER METALs	<MDL		
Zn	41,000	Zn	23,000				
OTHER METALs	<MDL	OTHER METALs	<MDL				

5460_SB-10		5460_SB-10		5460_SB-10	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		6.0 – 8.0'		18.0 – 20.0'	
B	300	VOCs	<MDL	VOCs	<MDL
CYCLOHEXANE	1,100	ANT	15	ANT	56
E	410	B(a)ANTH	29	B(a)ANTH	100
ISOP	130	B(a)PYR	26	B(a)PYR	88
MCYHA	3,300	B(b)FLA	24	B(b)FLA	90
T	1,400	CHRYSENE	20	B(k)FLA	33
X	3,300	FL	49	B(g,h,i)PER	46
OTHER VOCs	<MDL	I(1,2,3–CD)PY	20	CHRYSENE	90
ACE	3,800	Ph	45	DI(A,H)ANT	20
ACETHY	290	Py	43	FL	210
ANT	6,600	OTHER PNAs	<MDL	I(1,2,3–CD)PY	62
B(a)ANTH	9,200	PCBs	<MDL	Ph	180
B(a)PYR	6,900	As	10,000	Py	170
B(b)FLA	9,100	Ba	57,000	OTHER PNAs	<MDL
B(k)FLA	3,000	Cr	13,000	PCBs	<MDL
B(g,h,i)PER	2,900	Cu	11,000	As	15,000
CHRYSENE	9,000	Pb (TOTAL)	11,000	Ba	62,000
DI(A,H)ANT	940	Pb (FINE)	14,000	Cr	24,000
FL	18,000	Pb (COARSE)	8,200	Cu	22,000
F	3,800	Hg	32	Pb	9,500
I(1,2,3–CD)PY	3,900	Zn	33,000	Hg	35
NAPH	3,000	OTHER METALs	<MDL	Zn	63,000
Ph	23,000			OTHER METALs	<MDL
Py	23,000				
2–M	3,500				
OTHER PNAs	<MDL				
PCBs	462				
As	29,000				
Ba	98,000				
Cd	1,300				
Cr	25,000				
Cu	170,000				
Pb (TOTAL)	130,000				
Pb (FINE)	210,000				
Pb (COARSE)	57,000				
Hg	310				
Se	1,900				
Zn	210,000				
OTHER METALs	<MDL				

5460_SB-8		5460_SB-8		5460_SB-8	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		11.0 – 13.0'		18.0 – 20.0'	
VOCs	<MDL	VOCs	<MDL	VOCs	<MDL
ACE	100	PNAs	<MDL	PNAs	<MDL
ACETHY	290	PCBs	<MDL	PCBs	<MDL
ANT	480	As	8,800	As	14,000
B(a)ANTH	570	Ba	68,000	Ba	80,000
B(a)PYR	470	Cd	150	Cr	29,000
B(b)FLA	550	Cr	17,000	Cu	20,000
B(k)FLA	220	Cu	23,000	Pb	7,900
B(g,h,i)PER	260	Pb	10,000	Hg	30
CHRYSENE	490	Hg	30	Zn	64,000
DI(A,H)ANT	84	Zn	61,000	OTHER METALs	<MDL
FL	1,200	OTHER METALs	<MDL		
F	280				
I(1,2,3–CD)PY	350				
NAPH	210				
Ph	1,400				
Py	970				
2–M	160				
OTHER PNAs	<MDL				
PCBs	<MDL				
As	5,700				
Ba	34,000				
Cd	180				
Cr	6,300				
Cu	11,000				
Pb (TOTAL)	11,000				
Pb (FINE)	10,000				
Pb (COARSE)	13,000				
Hg	84				
Zn	21,000				
OTHER METALs	<MDL				

5460_SB-9		5460_SB-9		5460_SB-9	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		7.0 – 9.0'		18.0 – 20.0'	
B	200	MCYHA	45	VOCs	<MDL
CYCLOHEXANE	100	OTHER VOCs	<MDL	FL	26
E	110	B(k)FLA	17	Ph	21
ISOP	66	FL	37	Py	26
MCYHA	200	Ph	37	OTHER PNAs	<MDL
T	110	Py	34	PCBs	<MDL
X	630	OTHER PNAs	<MDL	As	13,000
OTHER VOCs	<MDL	PCBs	<MDL	Ba	130,000
ACE	24,000	As	5,000	Cr	25,000
ACETHY	14,000	Ba	16,000	Cu	18,000
ANT	67,000	Cd	350	Pb	7,600
B(a)ANTH	110,000	Cr	11,000	Hg	32
B(a)PYR	94,000	Cu	15,000	Zn	60,000
B(b)FLA	160,000	Pb (TOTAL)	15,000	OTHER METALs	<MDL
B(k)FLA	44,000	Pb (FINE)	17,000		
B(g,h,i)PER	60,000	Pb (COARSE)	7,900		
CHRYSENE	100,000	Hg	21		
DI(A,H)ANT	17,000	Se	330		
FL	300,000	Zn	38,000		
F	31,000	OTHER METALs	<MDL		
I(1,2,3–CD)PY	65,000				
NAPH	9,700				
Ph	250,000				
Py	230,000				
2–M	7,300				
OTHER PNAs	<MDL				
PCBs	1,340				
As	20,000				
Ba	160,000				
Cd	16,000				
Cr	120,000				
Cu	480,000				
Pb (TOTAL)	490,000				
Pb (FINE)	560,000				
Pb (COARSE)	420,000				
Hg	820				
Se	2,000				
Zn	1,000,000				
OTHER METALs	<MDL				

5460_SB-7		5460_SB-7		5460_SB-7	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		8.0 – 10.0'		18.0 – 20.0'	
ACETONE	170	VOCs	<MDL	VOCs	<MDL
CYCLOHEXANE	120	PNAs	<MDL	PNAs	<MDL
E	50	PCBs	<MDL	PCBs	<MDL
MCYHA	340	As	4,900	As	13,000
PCE	130	Ba	26,000	Ba	73,000
T	97	Cr	13,000	Cr	21,000
X	300	Cu	8,600	Cu	17,000
OTHER VOCs	<MDL	Pb (TOTAL)	6,900	Pb	7,100
ANT	1,500	Pb (FINE)	7,300	Hg	27
B(a)ANTH	2,300	Pb (COARSE)	6,700	Zn	54,000
B(a)PYR	2,200	Hg	33	OTHER METALs	<MDL
B(b)FLA	3,400	Zn	25,000		
B(k)FLA	1,600	OTHER METALs	<MDL		
B(g,h,i)PER	1,800				
CHRYSENE	1,900				
FL	4,500				
F	750				
I(1,2,3–CD)PY	2,200				
NAPH	1,400				
Ph	3,600				
Py	4,300				
2–M	2,300				
OTHER PNAs	<MDL				
PCBs	530				
As	9,300				
Ba	82,000				
Cd	2,500				
Cr	9,200				
Cu	62,000				
Pb (TOTAL)	110,000				
Pb (FINE)	150,000				
Pb (COARSE)	77,000				
Hg	160				
Se	10,000				
Zn	900,000				
OTHER METALs	<MDL				

5460_SB-11		5460_SB-11		5460_DUP1	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		14.0 – 16.0'		14.0 – 16.0'	
VOCs	<MDL	VOCs	<MDL	B	76
FL	350	PNAs	<MDL	OTHER VOCs	<MDL
OTHER PNAs	<MDL	PCBs	<MDL	PNAs	<MDL
PCBs	<MDL	As	9,000	PCBs	<MDL
As	8,400	Ba	62,000	As	9,800
Ba	47,000	Cd	250	Ba	55,000
Cd	370	Cr	16,000	Cd	210
Cr	12,000	Cu	21,000	Cr	13,000
Cu	32,000	Pb	11,000	Cu	19,000
Pb (TOTAL)	38,000	Hg	26	Pb	8,900
Pb (FINE)	38,000	Zn	57,000	Hg	14
Pb (COARSE)	38,000	OTHER METALs	<MDL	Zn	50,000
Hg	220			OTHER METALs	<MDL
Zn	56,000				
OTHER METALs	<MDL				

5460_SB-5		5460_SB-5		5460_SB-5	
9/16/2016		9/16/2016		9/16/2016	
0.0 – 2.0'		9.0 – 11.0'		18.0 – 20.0'	
MCYHA	60	VOCs	<MDL	VOCs	<MDL
OTHER VOCs	<MDL	PNAs	<MDL	PNAs	<MDL
ACE	310	PCBs	<MDL	PCBs	<MDL
ACETHY	310	As	21,000	As	12,000
ANT	1,000	Ba	38,000	Ba	90,000
B(a)ANTH	1,800	Cd	460	Cr	24,000
B(a)PYR	1,700	Cr	15,000	Cu	17,000
B(b)FLA	1,900	Cu	20,000	Pb	7,900
B(k)FLA	760	Pb (TOTAL)	6,800	Hg	32
B(g,h,i)PER	990	Pb (FINE)	8,300	Zn	56,000
CHRYSENE	1,500	Pb (COARSE)	5,100	OTHER METALs	<MDL
DI(A,H)ANT	310	Hg	17	CYANIDE	210
FL	3,500	Se	450		
F	400	Zn	180,000		
I(1,2,3–CD)PY	1,300	OTHER METALs	<MDL		
NAPH	320	CYANIDE	280		
Ph	3,300				
Py	3,000				
2–M	300				
OTHER PNAs	<MDL				
PCBs	25,000				
As	11,000				
Ba	62,000				
Cd	3,200				
Cr	16,000				
Cu	73,000				
Pb (TOTAL)	190,000				
Pb (FINE)	270,000				
Pb (COARSE)	140,000				
Hg	2,200				
Se	240				
Zn	240,000				
OTHER METALs	<MDL				
CYANIDE	8,400				

LEGEND:

- SUBJECT PROPERTY
- FENCE
- RAIL ROAD TRACKS
- PARCEL CORNER
- SOIL BORING
- DEBRIS PILE SAMPLE
- AKT PEERLESS SOIL BORING
- AKT PEERLESS TEMPORARY MONITORING WELL
- AKT PEERLESS TEST PIT SAMPLE
- McDOWELL & ASSOCIATES SOIL VERIFICATION SAMPLE
- ESTIMATED EXTENT OF SOIL IMPACT GREATER THAN THE MDEQ PART 201 RESIDENTIAL AND NON RESIDENTIAL SVII, VSI, APSI, AND/OR DC GCC
- ESTIMATED EXTENT OF SOIL IMPACT GREATER THAN THE MDEQ PART 201 RESIDENTIAL DC GCC

As	ARSENIC
Ba	BARIUM
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD
Cu	COPPER
Hg	MERCURY
Se	SELENIUM
Ag	SILVER
Zn	ZINC
ACE	ACENAPHTHENE
ACETHY	ACENAPHTHYLENE
ANT	ANTHRACENE
B(a)ANTH	BENZO(a)ANTHRACENE
B(a)PYR	BENZO(a)PYRENE
B(b)FLA	BENZO(b)FLUORANTHENE
B(g,h,i)PER	BENZO(g,h,i)PERYLENE
B(k)FLA	BENZO(k)FLUORANTHENE
F	FLUORENE
FL	FLUORANTHENE
I(1,2,3–CD)PY	INDENO(1,2,3,CD)PYRENE
2–M	2-METHYLNAPHTHALENE
NAPH	NAPHTHALENE
Ph	PHENANTHRENE
Py	PYRENE
DI(A,H)ANT	DIBENZO(a,h)ANTHRACENE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
ISOP	ISOPROPYLBENZENE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
1,4–DCB	1,4-DICHLOROBENZENE
MCYHA	METHYLCYCLOHEXANE
MEK	2-BUTANONE (MEK)
DBF	DIBENZOFURAN
VOCs	VOLATILE ORGANIC COMPOUNDS
PNAs	POLYNUCLEAR AROMATIC COMPOUNDS
PCBs	POLYCHLORINATED BIPHENYLS
MDL	METHOD DETECTION LIMIT
UNITs	µg/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 3B

SOIL BORING/SOIL PILE SAMPLE LOCATION MAP WITH SOIL ANALYTICAL RESULTS (MDOT PARCEL 5460)

PROJ: 125 SOUTH DRAGOON STREET AND 124 AND 136 SOUTH MILITARY STREET MDOT PARCEL 5457 AND 5460 DETROIT, MI

THIS IS NOT A LEGAL SURVEY

VERIFY SCALE 0 50'

IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRN BY: KS/CS | DATE: 11/15/2016

CHKD BY: NL | SCALE: 1" = 50'

FILE NAME: 01–7940–1–010F00R00