

Table 1
Analytical Testing Results - Stockpile Samples
Hiawatha Business Center
Minneapolis, Minnesota

Sample Identifier	Pace Lab Report #	Sample Date	Source/Location	Arsenic		Lead	
				TCLP (mg/L)	Total (mg/kg)	TCLP (mg/L)	Total (mg/kg)
SP-1	1018123	8/15/2005	Storm Water Retention Pond	0.12	ND (0.50)	ND (0.015)	3.3
SP-2	1018123	8/15/2005	Storm Water Retention Pond	0.13	ND (0.50)	ND (0.015)	4.5
SP-3	1018257	8/16/2005	Storm Water Retention Pond	NA	6.1	NA	17.6
SP-4	1018257	8/16/2005	Storm Water Retention Pond	NA	2.8	NA	27.8
SP-5	1018257	8/16/2005	Storm Water Retention Pond	NA	9.8	NA	13.4
SP-6	1018257	8/16/2005	Storm Water Retention Pond	NA	ND (0.40)	NA	10.6
SP-7	1018257	8/16/2005	Storm Water Retention Pond	NA	ND (0.42)	NA	3.1
SP-8	1018257	8/17/2005	Storm Water Retention Pond	NA	ND (0.50)	NA	3.5
SP-9	1018257	8/17/2005	Storm Water Retention Pond	NA	28.8	NA	3.4
SP-10	1018257	8/17/2005	Storm Water Retention Pond	NA	29.5	NA	4.0
SP-11	1018257	8/17/2005	Storm Water Retention Pond	NA	20.3	NA	3.9
SP-12	1018333	8/22/2005	Storm Water Retention Pond	NA	13.5	NA	1.2
SP-13	1018333	8/23/2005	Storm Water Retention Pond	NA	5.1	NA	1.0
SP-14	1018333	8/24/2005	Storm Water Retention Pond	NA	2.3	NA	0.94
SP-15	1018333	8/25/2005	Storm Water Retention Pond	NA	2.9	NA	1.0
SP-16	1018333	8/22/2005	Storm Water Retention Pond	NA	2.4	NA	1.1
SP-17	NS	NS	Petroleum Contaminated Soil Excavation	Characterized by August 2005 Pre-Excavation Soil Sampling (see Section 3.2.2 of this report).			
SP-18	NS	NS	Utility Trench Excavations	Characterized through the 2004/2005 Cleanup Documentation Sampling (see Section 2.2 of this report).			
SP-19	1018960	8/30/2005	East Building Line Excavation	NA	50.4	NA	28.1
SP-20	1019160	9/1/2005	Loading Dock Footing Excavation	NA	81.8	NA	21.8
SP-21	1019160	9/1/2005	Storm Line Excavation	NA	105.0	NA	19.8
SP-22	1019613	9/13/2005	Water Main Excavation	NA	13.2	NA	4.1
G-4	NS	NS	Lead-Impacted Soil Excavation Area	Characterized through the 2004/2005 Cleanup Documentation Sampling (see Section 2.2 of this report).			

Notes:

mg/kg = Milligrams per kilogram.

mg/L = Milligrams per liter.

ND = Parameter was not detected at or above the laboratory reporting limit indicated in parentheses.

NA = Not analyzed, NS - No Sample.

TCLP = Toxicity Characteristic Leachate Procedure.

Stockpile samples each represent approximately 250 cubic yards of soil.

Table 2
Analytical Testing Results - General Documentation Samples
Hiawatha Business Center
Minneapolis, Minnesota

Location	Sample Identifier	Pace Lab Report #	Sample Date	Arsenic Total (mg/kg)	Lead Total (mg/kg)
Storm Water Pond	Pond Doc 1	1018372	8/19/2005	ND (0.46)	3.4
	Pond Doc 2	1018372	8/19/2005	ND (0.47)	3.1
	Pond Doc 3	1018372	8/19/2005	ND (0.45)	4.3
	Pond Doc 4	1018372	8/19/2005	ND (0.41)	2.8
	Pond Doc 5	1018372	8/19/2005	ND (0.42)	3.5
	Pond Doc 6	1018372	8/19/2005	ND (0.41)	3.7
	Pond Doc 7	1018372	8/19/2005	ND (0.45)	2.3
	Pond Doc 8	1018372	8/19/2005	ND (0.49)	3.5
	Pond Doc 9*	1018372	8/19/2005	17.2*	2.3
	Pond Doc 10	1018372	8/19/2005	ND (0.42)	2.1
	Pond Doc 11	1018372	8/19/2005	ND (0.38)	3.5
	Pond Doc 12	1018372	8/19/2005	13.5	4.1
	Pond Doc 12A	1018372	8/19/2005	13.2	3.6
	WTDOC1	1019145	8/25/2005	ND (0.46)	3.1
	WTDOC2	1019145	8/25/2005	ND (0.51)	3.6
	WTDOC3	1019145	8/26/2005	55.6	4.9
WTDOC4	1019145	8/26/2005	ND (0.52)	2.8	
WTDOC5	1018960	8/27/2005	37.3	2.4	
WTDOC6	1018960	8/27/2005	ND (0.39)	2.0	
WTDOC7	1018960	8/27/2005	2.2	2.5	
WTDOC7A	1018960	8/27/2005	ND (0.43)	2.6	
WTDOC8	1018960	8/29/2005	ND (0.39)	2.7	
WTDOC9	1019163	9/13/2005	ND (0.45)	3.2	
WALL DOC 1	1018960	8/31/2005	267.0	13.9	
WALL DOC 2	1019160	8/31/2005	62.1	12.1	
WALL DOC 3	1019618	9/14/2005	68.7	3.2	
STD0C1	1019264	9/7/2005	13.5	0.61	
STD0C2	1019264	9/6/2005	1.3	4.7	
STD0C3	1019264	9/6/2005	2.3	1.7	
STD0C4	1019264	9/2/2005	1.9	1.6	
STD0C5	1019264	9/2/2005	1.2	1.5	
STD0C6	1019160	9/2/2005	ND (0.50)	3.2	
STD0C7	1018960	8/30/2005	ND (0.50)	3.2	
STD0C8	1018960	8/30/2005	12.8	3.2	
STD0C9	1018960	8/31/2005	ND (0.47)	4.9	
STD0C10	1019160	8/31/2005	ND (0.39)	3.4	
STD0C11	1019160	8/31/2005	ND (0.39)	4.8	
STD0C12	1019160	8/31/2005	12.9	6.6	
STD0C13	1019160	9/1/2005	25.8	3.1	
STD0C14	1019160	9/1/2005	6.6	2.7	
STD0C15	1019160	9/1/2005	64.5	3.6	
STD0C16	1019555	9/9/2005	49.6	2.6	
Sanitary Line Excavation	SADOC1	1019555	9/10/2005	ND (0.37)	3.1
Grid Cell #4	G-4	1019555	9/10/2005	154	3.5

Notes:

mg/kg = Milligrams per kilogram.
ND = Parameter was not detected at or above the laboratory reporting limit indicated in parentheses.

A = Duplicate Sample.

* = Sample exceeded SLV for arsenic. However, this sample location ultimately ended up being part of the retaining wall excavation that is adjacent to the storm water retention pond and is thus below bituminous pavement.

Site Cleanup Standards (4 feet from planned finished development grade):

- Arsenic - 20 mg/kg

- Lead - 525 mg/kg

MPCA Short Term Worker Soil Reference Values (SRVs):

- Arsenic - 55 mg/kg**

- Lead - 700 mg/kg

**Note: as of 1/06, the MPCA revised the Short Term Worker SRV for arsenic to 70 mg/kg.

MPCA Soil Leaching Values (SLVs):

- Arsenic - 15.1 mg/kg

- Lead - 525 mg/kg

Table 3
Soil Analytical Results - Petroleum Documentation Samples
Hiawatha Business Center
Minneapolis, Minnesota

Compound/Parameter	Sample Identifier and Date Collected										Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier 1 Soil Leaching Value (SLV)
	B-1 (13') 8/16/2005 Pace Report 1018222	B-2 (13') 9/5/2005 Pace Report 101945	S-1 (10') Pace Report 1019159	S-5 (8') Pace Report 1019159	S-8 (10') Pace Report 1019159	S-9 (11') Pace Report 1019159	B-3 (13') Pace Report 1019159	B-4 (13') Pace Report 1019159	B-5 (13') Pace Report 1019159	B-5 (13') Pace Report 1019159			
Volatile Organic Compounds (VOCs) reported in mg/kg													
1,2,4-Trimethylbenzene	NA	3.78	NA	NA	NA	NA	NA	NA	NA	NA	5	5	NE
1,3,5-Trimethylbenzene	NA	1.63	NA	NA	NA	NA	NA	NA	NA	NA	4	10	NE
Benzene	ND (0.21)	ND (0.054)	ND (0.21)	ND (0.054)	ND (0.052)	ND (0.053)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	1.5	4	0.034
Ethylbenzene	2.5	ND (0.054)	ND (0.21)	ND (0.054)	ND (0.052)	ND (0.053)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	200	200	4.7
Isopropylbenzene	NA	0.784	NA	NA	NA	NA	NA	NA	NA	NA	30	87	18
Methyl-t-butyl ether	NA	ND (0.27)	ND (0.82)	ND (0.22)	ND (0.21)	ND (0.21)	ND (0.84)	ND (0.82)	ND (0.82)	ND (0.82)	NE	NE	0.027
n-Butylbenzene	NA	1.28	NA	NA	NA	NA	NA	NA	NA	NA	30	92	NE
Naphthalene	NA	3.04	NA	NA	NA	NA	NA	NA	NA	NA	10	NE	7.5
Toluene	ND (0.21)	ND (0.054)	ND (0.21)	ND (0.054)	ND (0.052)	ND (0.053)	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)	107	305	6.4
Total Xylenes	6.2	1.12	ND (0.62)	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.63)	ND (0.61)	ND (0.62)	ND (0.62)	45	130	45
All other reported VOCs	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA			
Semi-Volatile Organic Compounds (SVOCs) reported in mg/kg													
Fluorene	NA	3.31	NA	NA	NA	NA	NA	NA	NA	NA	1.140	4,120	47
Naphthalene	NA	0.812	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	7.5
Phenanthrene	NA	5.45	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE
All other reported SVOCs	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA			
BaP Equivalent ^c	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	2	4	10.2
Polychlorinated Biphenyls (PCBs) reported in mg/kg													
Total reported PCBs	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	1.2	8	2.1
Metals reported in mg/kg													
Arsenic, Total	NA	ND (0.48)	NA	NA	NA	NA	NA	NA	NA	NA	10	25	15.1
Barium, Total	NA	32.2	NA	NA	NA	NA	NA	NA	NA	NA	1,200	12,500	842
Cadmium, Total	NA	ND (0.048)	NA	NA	NA	NA	NA	NA	NA	NA	35	250	4.4
Chromium, Total ^d	NA	4.7	NA	NA	NA	NA	NA	NA	NA	NA	34,300/71 ^d	100,000/425 ^d	1,000,000/18 ^d
Lead, Total	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	400	700	525
Mercury, Total	NA	ND (0.018)	NA	NA	NA	NA	NA	NA	NA	NA	0.7	2	1.6
Selenium, Total	NA	ND (0.72)	NA	NA	NA	NA	NA	NA	NA	NA	170	1,250	1.5
Silver, Total	NA	ND (0.48)	NA	NA	NA	NA	NA	NA	NA	NA	170	1,250	3.9
Other Parameters reported in mg/kg													
Diesel Range Organics (DRO)	16,000	NA	5,020	1100	63.8	336	3,640	1,880	2,540	NE	NE	NE	NE
Gasoline Range Organics (GRO)	647	NA	230	96.2	ND (5.2)	5.2	165	231	104	NE	NE	NE	NE

Notes:
mg/kg = milligrams per kilogram.
NA = Sample not analyzed for this parameter.
ND = Not detected at or above the laboratory reporting limit indicated in parentheses.
NE = Regulatory limit not established for this parameter.
^c = Benzo(a)pyrene (BaP) equivalent is a calculated value based on the weighted concentration and toxicity of the following compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, debenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene.
^d = Reported result(s) is total chromium, regulatory limit for chromium III and chromium VI are provided.

Table 4
 Analytical Testing Results - Imported Soil
 Hiawatha Business Center
 Minneapolis, Minnesota

Compound/Parameter	CAS No.	Sample Identifier and Date Collected			
		Braun Report #0504466		9/9/2005	
		Clean Import Sample 1	Trip Blank	9/8/2005	
		Residential Soil Reference Value (SRV)	Industrial Soil Reference Value (SRV)	Tier I Soil Leaching Value (SLV)	
Volatile Organic Compounds (VOCs) reported in mg/kg					
Total VOCs		ND	ND	NE	NE
Semi-Volatile Organic Compounds (SVOCs) reported in mg/kg					
Total SVOCs		ND	NA	NE	NE
Polychlorinated Biphenyls (PCBs) reported in mg/kg					
Total PCBs	1336-36-3	ND	NA	1.2	8
Metals reported in mg/kg					
Arsenic, Total	7440-38-2	1.7	NA	5	20
Barium, Total	7440-39-3	17	NA	1,200	18,000
Cadmium, Total	7440-43-9	ND (0.51)	NA	25	200
Chromium, Total ^d	7440-47-3	6.9	NA	44,000/87 ^d	100,000/650 ^d
Lead, Total	7439-92-1	1.9	NA	300	700
Mercury, Total	7439-97-6	ND (0.018)	NA	0.5	1.5
Selenium, Total	7782-49-2	ND (1.0)	NA	160	1,300
Silver, Total	7440-22-4	ND (0.51)	NA	160	1,300

Notes:

mg/kg = Milligrams per kilogram.

NA = Sample not analyzed for this parameter.

ND = Not detected at or above the laboratory reporting limit indicated in parentheses.

NE = Regulatory limit not established for this parameter.

^d = Reported result(s) is total chromium, regulatory limit for chromium III and chromium VI are provided.

Table 5
 Air Particulate Analytical Results - Arsenic
 Hiawatha Business Center
 Minneapolis, Minnesota

Sampling Date	Air Monitoring Station					Braun Lab Report #
	P40	P200	P300	P355		
8/11/2005	---	---	<0.20	---	---	0503846
8/12/2005	---	<0.20	---	---	---	0503845
8/15/2005	---	---	---	<2.0	---	0503933
8/16/2005	---	---	<2.0	---	---	0503931
8/17/2005	---	---	<2.0	---	---	0504023
8/18/2005	---	---	<2.0	---	---	0504025
8/25/2005	---	---	---	<2.0	---	0504204
8/26/2005	---	---	<2.0	---	---	0504239
8/27/2005	---	---	<2.0	---	---	0504257
8/29/2005	---	---	<2.0	---	---	0504256
8/30/2005	---	<2.0	---	---	---	0504311
8/31/2005	---	---	<2.0	---	---	0504310
9/1/2005	---	---	---	<2.0	---	0504388
9/2/2005	---	---	---	<2.0	---	0504337
9/6/2005	---	---	---	<2.0	---	0504396
9/7/2005	---	<2.0	---	---	---	0504397
9/9/2005	---	---	<2.0	---	---	0504462
9/10/2005	---	---	<2.0	---	---	0504521
9/12/2005	---	---	---	<2.0	---	0504522

NOTES:

All units in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).
 <n.n = Sample result was below laboratory detection limits as shown.
 --- = No sample collected from this station on the date indicated.
 Air sample volumes were approximately 500 liters collected at the downwind air monitoring station over a 125 minute period during active Samples analyzed using NIOSH method 7300 for arsenic and lead.

Table 6
 Air Particulate Analytical Results - Lead
 Hiawatha Business Center
 Minneapolis, Minnesota

Sampling Date	Air Monitoring Station				Braun Lab Report #
	P40	P200	P300	P355	
8/11/2005	---	---	<0.20	---	0503846
8/12/2005	---	<0.20	---	---	0503845
8/15/2005	---	---	---	<2.0	0503933
8/16/2005	---	---	<2.0	---	0503931
8/17/2005	---	---	<2.0	---	0504023
8/18/2005	---	---	<2.0	---	0504025
8/25/2005	---	---	---	<2.0	0504204
8/26/2005	---	---	<2.0	---	0504239
8/27/2005	---	---	<2.0	---	0504257
8/29/2005	---	---	<2.0	---	0504256
8/30/2005	---	<2.0	---	---	0504311
8/31/2005	---	---	<2.0	---	0504310
9/1/2005	---	---	---	<2.0	0504388
9/2/2005	---	---	---	<2.0	0504337
9/6/2005	---	---	---	<2.0	0504396
9/7/2005	---	<2.0	---	---	0504397
9/9/2005	---	---	<2.0	---	0504462
9/10/2005	---	---	<2.0	---	0504521
9/12/2005	---	---	---	<2.0	0504522

NOTES:

All units in micrograms per cubic meter (ug/m³).
 <n.n = Sample result was below laboratory detection limits as shown.
 --- = No sample collected from this station on the date indicated.
 Air sample volumes were approximately 500 liters collected at the downwind air monitoring station over a 125 minute period during active Samples analyzed using NIOSH method 7300 for arsenic and lead.

Table 7
Soil Disposition Summary
Hiawatha Business Center
Minneapolis, Minnesota

Soil Stockpile Number	Source/Location	Soil Type	Geotechnically Suitable	Final Disposition	Approximate Volume Disposed (in Tons)
SP-1	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-2	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-3	Storm Water Retention Pond	Clayey Silt	No	Backfill in green spaces	NA
SP-4	Storm Water Retention Pond	Clayey Silt	No	Backfill in green spaces	NA
SP-5	Storm Water Retention Pond	Clayey Silt	No	Backfill in green spaces	NA
SP-6	Storm Water Retention Pond	Clayey Silt	No	Backfill in green spaces	NA
SP-7	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-8	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-9	Storm Water Retention Pond	Sand	Yes	Off-Site Disposal as Daily Cover	360
SP-10	Storm Water Retention Pond	Sand	Yes	Off-Site Disposal as Daily Cover	360
SP-11	Storm Water Retention Pond	Sand	Yes	Off-Site Disposal as Daily Cover	320
SP-12	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-13	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-14	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-15	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-16	Storm Water Retention Pond	Sand	Yes	Backfill for Building foundation and parking areas.	NA
SP-17	Petroleum Contaminated Soil Excavation	Sand	Yes	Off-Site Disposal as Industrial Waste	940
SP-18	Utility Trench Excavations (also flammable liquids traps, light pole footings)	Sand	Yes	Off-Site Disposal as Industrial Waste	868
SP-19	East Building Line Excavation	Silt	No	Off-Site Disposal as Daily Cover	240
SP-20	Loading Dock Footing Excavation	Sand/Black Silt	Yes	Off-Site Disposal as Daily Cover	210
SP-21	Storm Line Excavation	Sand	Yes	Off-Site Disposal as Daily Cover	237
SP-22	Water Main Excavation	Sand	Yes	Backfill for Building foundation and parking areas.	NA
G-4	Lead-Impacted Soil Excavation Area	Sand	Yes	Off-Site Disposal as Daily Cover	138
				Total Volume Disposed Off-Site	3,673

Notes:
NA - Not Applicable