

REPORT

LIMITED SOIL INVESTIGATION

SCHERER BROTHERS PROPERTY
9 NINTH AVENUE N.E. AND
900 SIBLEY STREET N.E.
MINNEAPOLIS, MINNESOTA

RJR PROJECT NO.: 10-03

March 31, 2010



LIMITED SOIL INVESTIGATION REPORT

SCHERER BROTHERS PROPERTY
9 NINTH AVENUE N.E. and
900 SIBLEY STREET N.E.
MINNEAPOLIS, MINNESOTA

RJR PROJECT NO.: 10-03

March 31, 2010

Prepared For:

MINNEAPOLIS PARK AND RECREATION BOARD
2117 WEST RIVER ROAD
MINNEAPOLIS, MINNESOTA 55411

Prepared By:

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W.
PRIOR LAKE, MINNESOTA 55372
(952) 447-6505

Table of Contents

Section	Page
1.0 INTRODUCTION	1
1.1 Site Location and History	1
1.2 Purpose.....	1
2.0 SOIL INVESTIGATION.....	2
2.1 Previous Investigation.....	2
2.2 Scope of Work	2
2.2 Site Geology	3
2.3 Organic Vapor Screening Results.....	3
2.4 Laboratory Analytical Results	4
3.0 CONCLUSIONS & RECOMMENDATIONS.....	5

Table of Contents, Continued

List of Tables

1. Soil Analytical Results – PAHs
2. Soil Analytical Results – Metals
3. Soil Analytical Results – TCLP

List of Figures

1. Site Location Map
2. Site Diagram

List of Appendices

- Appendix A: Historic Aerial Photographs*
- Appendix B: Liesch Boring Logs and Soil Sample Analytical Results Table
- Appendix C: Methods and Procedures
- Appendix D: Soil Boring Logs
- Appendix E: Laboratory Analytical Report*

* Appendix included as pdf files on compact disc

1.0 INTRODUCTION

R.J.Rykken Consulting, Inc. (RJR) has prepared this Limited Soil Investigation (LSI) Report to assist the Minneapolis Park and Recreation Board (MPRB) with the potential acquisition of the Scherer Brothers property located in Minneapolis, Minnesota (the Site). The MPRB plans to purchase the Site and construct a new park on portions of the Site with addresses 900 Sibley Street N.E. and 9 Ninth Avenue N.E.

1.1 Site Location and History

The Site consists of four parcels with seven addresses and a total area of 13.87 acres located in Minneapolis, Minnesota (Figure 1). The Site is currently owned by the Scherer Bros. Lumber Co. and consists of nine buildings and paved storage areas previously used as a retail lumber and building supply facility. The Site is bordered on the west by the Mississippi River; on the south by Eighth Avenue N.E.; and on the east and north by commercial and industrial facilities.

Historical information indicates the Site addresses 900 Sibley Street N.E. and 9 Ninth Avenue N.E. have been occupied predominantly by lumber and shingle mills since the late 1800s. Historic Site use is documented in a Phase I Environmental Site Assessment (Phase I ESA) report dated November 24, 2009 prepared by Liesch Associates, Inc. RJR also reviewed historic aerial photographs provided by Hennepin County (Appendix A).

1.2 Purpose

The purpose of the LSI was to identify contaminated soil that may require cleanup during development of the proposed park. The proposed development would include removal of existing buildings and paved surfaces, and construction of landscaped/green space, and paved trails and parking areas.

2.0 SOIL INVESTIGATION

2.1 Previous Investigation

A previous investigation is documented in a Limited Phase Two Environmental Site Assessment report dated October 22, 2009, prepared by Liesch Associates, Inc. (Liesch Phase Two Report). The Liesch Phase Two Report was focused on a proposed development of the 9 Ninth Avenue N.E. Site parcel. The Liesch investigation included twelve soil borings (B-1 through B-12) advanced to depths ranging from 16 to 119 feet below ground surface (bgs) and laboratory analyses of thirteen soil samples. Information from the Liesch Phase Two Report, including soil boring logs and a table summarizing laboratory results, are included in Appendix B. The locations of the soil borings are included on Figure 2.

2.2 Scope of Work

RJR conducted a soil investigation at the Site for the MPRB during March 2010. The scope of the soil investigation was based on information from the Liesch Phase I ESA and Phase Two reports and historic aerial photographs, and included the following:

- Advancing twenty push probe soil borings (SB-1 through SB-20) on March 1 and 2, 2010, in the locations shown on Figure 2.
- Collecting and submitting twenty-two soil samples for laboratory analyses of RCRA metals and polynuclear aromatic hydrocarbons (PAHs).
- Performing subsequent laboratory analyses on three soil samples for lead, and one soil sample for mercury, using the Toxicity Characteristic Leaching Procedure (TCLP).

The boring and sample locations were selected to assess potential soil contamination in areas that will likely be exposed during the proposed development of the Site as a park. Methods and procedures utilized during the investigation are included in Appendix C.

2.2 Site Geology

Soil borings for this investigation were advanced to depths ranging from 10 to 12 feet bgs. Logs of the soil borings are included in Appendix D. The soil encountered in the borings consisted of a variety of fill materials including mixed layers of sand, silt, clay and organics, wood chips and limestone/brick/concrete. The uppermost 0.5 to 1 foot of sand and gravel was likely placed for the current site use as an asphalt covered storage area and parking lot. Layers containing ash/slag were encountered between 1 and 7 feet bgs in several of the borings located on the 900 Sibley Street parcel. Layers of demolition debris (bricks/wood/limestone) were encountered in a majority of the borings between the Mississippi and the vacated Water Street.

Based on the Liesch boring logs, the native soil consists mostly of fine alluvium (sandy or silty clay, sandy silt) that extends to depths of approximately 90 feet bgs and overlies a layer of sand, and gravel. Sandstone bedrock was encountered at 109 feet bgs in boring B-3. The Geological Atlas indicates that the uppermost bedrock (St. Peter Sandstone) is present at a depth of approximately 100 to 150 feet bgs.

2.3 Organic Vapor Screening Results

Soil samples collected from the borings were screened for organic vapors using a photoionization detector (PID) and the bag headspace method. The PID (Thermo Environmental Instruments Model 580B) was equipped with a 10.6 eV lamp, and was calibrated to an isobutylene standard to measure "total organic vapors" in parts per million by volume (ppmv) in air. Organic vapors were not detected above background levels in any of the soil samples collected by RJR. Sample depths and organic vapor screening results are included on the borings logs (Appendix C).

The Liesch Phase II detected relatively low organic vapor concentrations (1 to 8 ppmv) in near surface soil samples (fill materials) collected from borings B-3, B-5 and B-8.

2.4 Laboratory Analytical Results

Soil samples for laboratory analyses were collected from twenty-two locations in the borings. The soil samples were collected in laboratory-supplied containers and delivered under chain-of-custody protocol to Legend Technical Services, Inc. in St. Paul, Minnesota. The soil samples were submitted for laboratory analyses that included:

- Polynuclear Aromatic Hydrocarbons (PAHs) (EPA Method 8270C).
- RCRA Metals (Arsenic, Barium, Chromium, Cadmium, Lead, Selenium, Silver, Mercury).
- Toxicity Characteristic Leaching Procedure (TCLP) lead and mercury.

The laboratory results are summarized in Tables 1 through 3, and the analytical reports are included in Appendix E. The laboratory analyses indicate the following:

- PAH concentrations exceed Minnesota Pollution Control Agency (MPCA) soil reference values (SRVs) for recreational properties in 7 of the 16 soil samples. The elevated PAHs appear to be associated with fill materials containing slag/ash.
- Lead concentrations exceed the MPCA recreational SRV in 4 of the 22 soil samples. Three of these samples were subsequently analyzed for lead using TCLP; these samples did not contain TCLP lead concentrations above the US Environmental Protection Agency (USEPA) regulatory level of 5.0 milligrams per liter (mg/l).
- The mercury concentration exceeds the MPCA recreational SRV in the soil sample from a depth of 1 to 3 feet in boring SB-1. This sample also contained elevated concentrations of PAHs and lead. This sample was subsequently analyzed for TCLP mercury and did not contain concentrations above the USEPA regulatory level of 2 mg/l.
- Arsenic concentrations exceed the MPCA recreational SRV in 4 of the 22 samples. The arsenic concentrations are within typical near surface soil concentrations in Minneapolis.
- Cadmium or selenium concentrations exceed the MPCA soil leaching values (SLVs) in three samples. These samples also contain elevated concentrations of PAHs, lead, arsenic or mercury.

3.0 CONCLUSIONS & RECOMMENDATIONS

To obtain MPCA approval for development and use of the Site as a public park, contaminant concentrations in the uppermost 4 feet of soil should be less than the MPCA SRVs for recreational use. Contaminant concentrations above the MPCA SRVs can remain on-Site in less accessible locations (below a depth of 4 feet or beneath permanent structures/pavements) with institutional controls that limit the future use of the Site. The current estimated area of contaminated soil (36,000 square feet) that will require removal and disposal to utilize the Site as a public park is shown on Figure 2. The estimated thickness of the contaminated soil is 3 feet, resulting in a current estimated volume of 4,000 cubic yards.

The Liesch Phase II Report identified elevated lead concentrations in a soil sample collected from a depth of 7 to 9 feet in soil boring B-3. Additional investigation would be necessary to assess the extent of the lead contamination in this area. This material may require removal/disposal or in-situ stabilization. The Liesch Phase II Report also identified elevated PAHs in this sample, and in a soil sample collected from 7 to 9 feet in soil boring B-4. It is likely that these PAH concentrations can remain on-Site with institutional controls.

Additional work will be necessary to obtain MPCA approval of the development of the Site as a public park. The work should include preparing and submitting an investigation work plan to the MPCA Voluntary Investigation and Cleanup (VIC) program for review and approval. The additional work should further define the extent of near surface soil contamination, and the extent and characteristics of the lead contamination identified in soil boring B-3. The results of the additional investigation and a proposed Response Action Plan (RAP) should be submitted to the MPCA VIC program for review and approval.



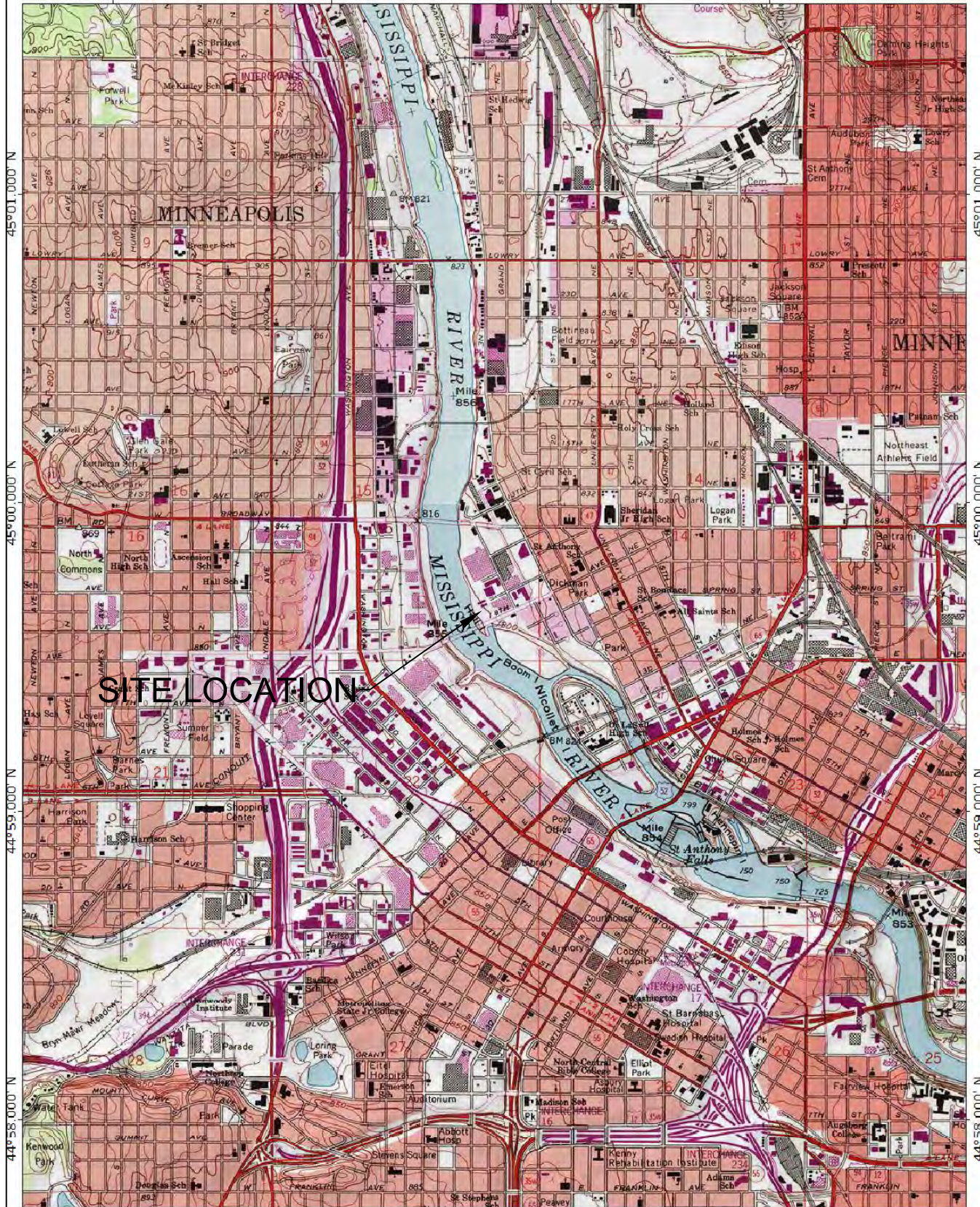
FIGURES

93°18.000' W

93°17.000' W

93°16.000' W

WGS84 93°15.000' W



45°01.000' N

45°00.000' N

44°59.000' N

44°58.000' N

45°01.000' N

45°00.000' N

44°59.000' N

44°58.000' N

93°18.000' W

93°17.000' W

93°16.000' W

WGS84 93°15.000' W

SITE LOCATION MAP
SCHERER BROTHERS
MINNEAPOLIS, MINNESOTA

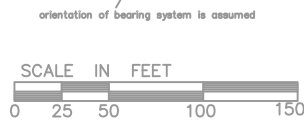
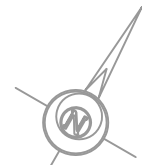
RJR

MARCH 2010

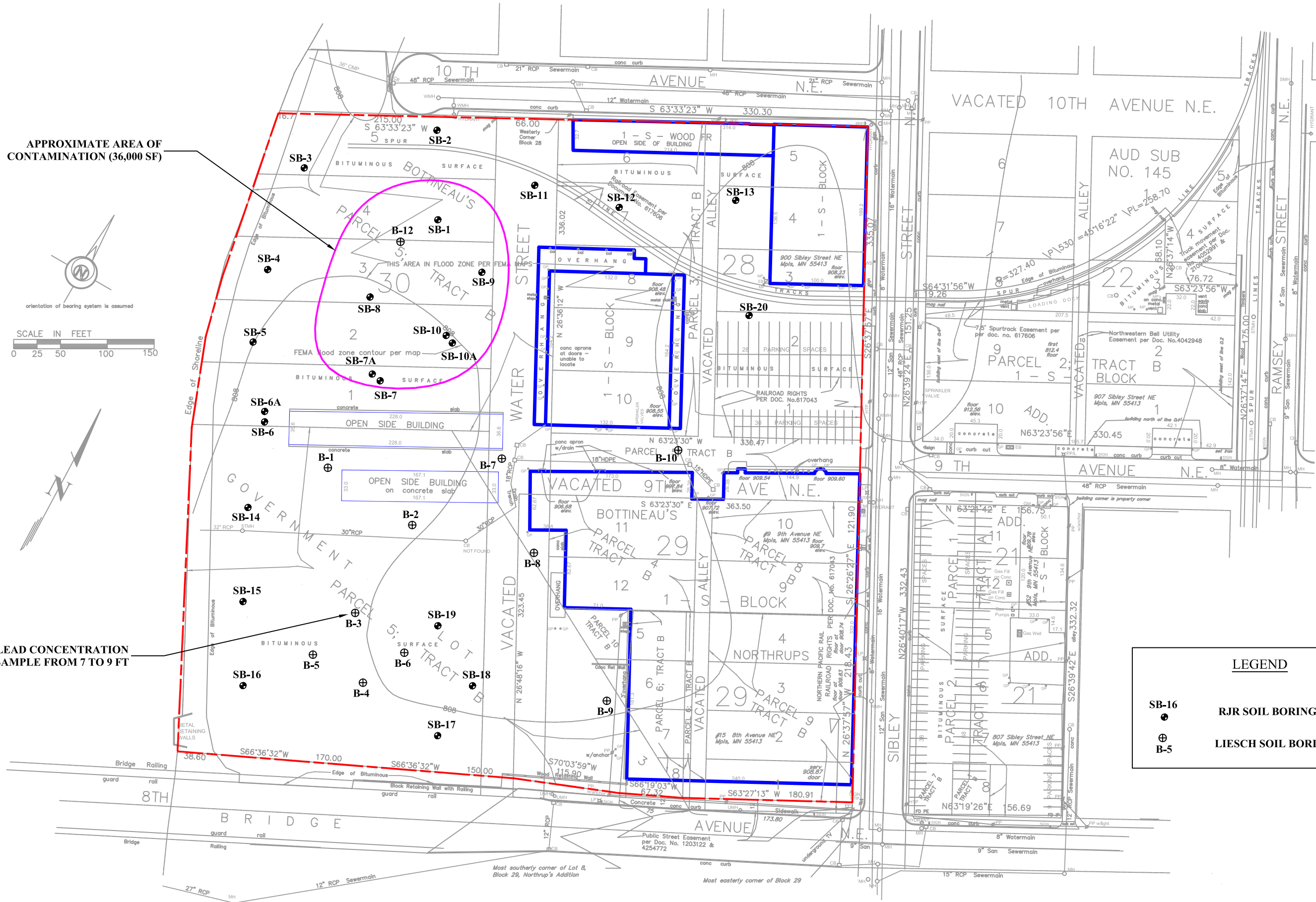
10-03

R.J.Rycken Consulting, Inc.

APPROXIMATE AREA OF CONTAMINATION (36,000 SF)



ELEVATED LEAD CONCENTRATION IN SAMPLE FROM 7 TO 9 FT



LEGEND

- SB-16 RJR SOIL BORING MARCH 2010
- ⊕ B-5 LIESCH SOIL BORING JULY 2009

SITE DIAGRAM
SCHERER BROTHERS
MINNEAPOLIS, MINNESOTA

RJR

R.J.Ryken Consulting, Inc.

MARCH 2010



TABLES

TABLE 1
SOIL LABORATORY ANALYTICAL RESULTS - PAHs
SCHERER BROTHERS PROPERTY
MINNEAPOLIS, MINNESOTA

Soil Boring	Depth (ft)	Concentration (mg/kg)																		
		2-Chloronaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	BAP Equivalents	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
SB-1	1-3	<1.6	<1.6	<1.6	<1.6	2.6	8.8	7.4	10.18	9.4	4.2	4.1	8.6	<1.6	27	<1.6	4.6	<1.6	8.1	13
SB-2	1-3	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36		<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	0.36	<0.36
SB-3	1-2.5	<0.73	<0.73	<0.73	<0.73	<0.73	1.2	1.2	1.73	1.8	1.5	0.9	1.5	<0.73	1.9	<0.73	1.2	<0.73	0.79	1.2
SB-3	5-6	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39		<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
SB-4	0.5-2	<0.35	0.77	<0.35	<0.35	0.42	0.8	0.89	1.17	0.9	0.77	0.48	0.9	<0.35	2.6	<0.35	0.51	0.55	1.4	3.5
SB-4	6-8	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.63		1	0.69	<0.39	0.58	<0.39	0.44	<0.39	0.63	<0.39	<0.39	<0.39
SB-5	2-4	<0.37	<0.37	<0.37	<0.37	0.64	2.9	2.5	3.60	2.7	1.3	1.3	2.9	0.45	5.2	<0.37	1.3	<0.37	1.4	4.8
SB-6	3-4	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69		<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69	<0.69
SB-7	5-7	<1.8	<1.8	2.6	<1.8	5.2	11	11	15.56	11	6.9	4.7	10	2	20	2.3	6.7	<1.8	15	17
SB-8	1-3	<1.8	<1.8	3.1	<1.8	4.6	7	11	15.18	11	7.1	4.6	7.3	2.1	13	3.4	6.7	<1.8	11	13
SB-8	6.5-8	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46		<0.46	<0.46	<0.46	<0.46	<0.46	0.53	<0.46	<0.46	<0.46	<0.46	<0.46
SB-9	1-2	<14	<14	39	<14	75	74	76	99.68	79	40	36	68	<14	190	47	41	<14	190	140
SB-10	2-3	<1.9	<1.9	2	<1.9	7.8	12	13	18.36	14	7.4	5.9	12	2.3	27	3.2	7.6	<1.9	20	21
SB-11	2.5-4	<0.45	<0.45	<0.45	<0.45	<0.45	0.9	0.71	0.94	0.86	0.71	<0.45	0.92	<0.45	1.5	<0.45	0.49	<0.45	0.87	1.2
SB-12	1-2.5	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42		<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
SB-13	1-2.5	<0.38	0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38	<0.38	<0.38	<0.38	<0.38	0.53	<0.38	<0.38	<0.38	0.59	<0.38
SB-14	2-4	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36		<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
SB-15	6-8	<0.37	<0.37	<0.37	<0.37	<0.37	0.57	0.57	0.69	0.62	0.38	<0.37	0.55	<0.37	1.5	<0.37	<0.37	<0.37	0.97	0.76
SB-16	1-3	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35		<0.35	<0.35	<0.35	<0.35	<0.35	0.41	<0.35	<0.35	<0.35	<0.35	0.37
SB-17	1-2.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37		<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
SB-19	2-4	<0.35	<0.35	<0.35	<0.35	0.42	1.3	1.2	1.57	1.1	0.69	0.56	1.2	<0.35	2.8	<0.35	0.62	<0.35	1.4	2.3
SB-20	1-2	<0.39	<0.39	<0.39	<0.39	<0.39	0.8	1.6	2.03	1.5	1.5	0.55	0.96	<0.39	1	<0.39	1.4	<0.39	0.68	0.89
MPCA Tier 1 SLV		NL	NL	50	NL	942	*	*	10.2	*	NL	*	*	*	295	47	*	7.5	NL	272
MPCA Recreational SRV		NL	120	1,860	NL	10,000	*	*	2	*	NL	*	*	*	1,290	1,200	*	24	NL	1060

PAHs = Polyaromatic Hydrocarbons
mg/kg = milligram per kilogram = parts per million (ppm)
NL = Not Listed
MPCA Tier 1 SLV = Soil Leaching Value - worst case scenario
MPCA Recreational SRV = Soil Reference Value for recreational property use
Compound Detected Above MPCA Recreational SRV
* = compound included in BAP Equivalents calculation

TABLE 2
SOIL LABORATORY ANALYTICAL RESULTS - METALS
SCHERE BROTHERS PROPERTY
MINNEAPOLIS, MINNESOTA

Soil Boring	Depth (ft)	Concentration (mg/kg)							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
SB-1	1-3	16	250	14	16	940	8	1.8	<0.32
SB-2	1-3	14	57	32	9	120	<0.11	<1.1	<0.27
SB-3	1-2.5	24	120	1.4	18	180	0.74	<1.1	<0.27
SB-3	5-6	3	59	<0.29	10	24	<0.12	<1.2	<0.29
SB-4	0.5-2	3.5	60	0.39	14	23	0.19	<1.1	<0.27
SB-4	6-8	9.4	84	0.85	19	170	0.17	<1.2	<0.29
SB-5	2-4	3.5	52	0.35	11	41	0.15	<1.1	<0.28
SB-6	3-4	3.4	41	<0.26	8.7	11	<0.11	<1.1	<0.26
SB-7	5-7	4.4	70	0.35	8.7	52	0.14	<1.1	<0.28
SB-8	1-3	3	46	<0.27	12	41	0.15	<1.1	<0.27
SB-8	6.5-8	17	820	2.3	19	1,000	0.16	1.8	0.95
SB-9	1-2	3.3	41	0.31	19	64	0.15	<1.1	<0.27
SB-10	2-3	7.5	70	0.59	9.5	69	0.19	<1.1	<0.27
SB-11	2.5-4	8.7	130	1	15	310	0.24	<1.4	<0.34
SB-12	1-2.5	2.7	84	<0.32	19	5	<0.12	<1.3	<0.32
SB-13	1-2.5	7.9	130	0.33	10	39	0.13	<1.1	0.38
SB-14	2-4	5.5	130	0.49	15	500	0.4	<1.0	<0.26
SB-15	6-8	3.3	44	<0.28	8.5	74	0.28	<1.1	<0.28
SB-16	1-3	3.1	39	<0.27	9.8	95	<0.11	<1.1	<0.28
SB-17	1-2.5	3.5	78	<0.28	9.6	34	<0.11	<1.1	<0.28
SB-19	2-4	3.8	58	0.28	11	46	0.13	<1.1	<0.28
SB-20	1-2	4.8	320	1.7	12	180	<0.12	<1.2	<0.3
MPCA Tier 1 SLV		15.1	842	4.4	1,000,000	525	1.6	1.5	3.9
MPCA Recreational SRV		11	1,100	35	60,000	300	1.2	200	200

mg/kg = milligram per kilogram = parts per million (ppm)

MPCA Tier 1 SLV = Soil Leaching Value - worst case scenario

MPCA Recreational SRV = Soil Reference Value for recreational property use

Compound Detected Above MPCA Residential SRV or Tier 1 SLV

TABLE 3
SOIL LABORATORY ANALYTICAL RESULTS – TCLP
SCHERER BROS. PROPERTY
MINNEAPOLIS, MINNESOTA

Soil Boring	Depth (Ft)	Concentration (milligrams per liter – mg/l)	
		TCLP Lead	TCLP Mercury
SB-1	1-3	0.18	<0.015
SB-8	6.5-8	0.21	NA
SB-14	2-4	0.12	NA
Regulatory Level		5.0	0.2

NA = Not Analyzed for this parameter



APPENDIX A





N.E.

ST.

WATER



WATER

ST.
N.E.

9TH







APPENDIX B

Parameter	units	SAMPLE LOCATION (DEPTH OF SAMPLE IN FEET)													MPCA Tier 1 SLVs	MPCA Tier 2 Industrial SRVs		
		B-1 (12'-14')	B-2 (6'-8')	B-3 (7'-9')	B-4 (7'-9')	B-5 (4'-6')	B-6 (2'-4')	B-7 (1'-3')	B-8 (3'-5')	B-9 (3'-5')	B-10 (4'-6')	B-11 (12'-13')	B-12 (11'-13')					
DRO ⁽¹⁾	mg/kg	28.1	186	449	65.4	396	49.4	25.8	319	ND	ND	ND	ND	ND	ND	ND	NE	NE
GRO	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
VOCs ⁽²⁾																		
Naphthalene	ug/kg	ND	ND	0.432	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.5	28
SVOC																		
Anthracene	mg/kg	NT	NT	2.2	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	942	45400
Benzo(a)anthracene	mg/kg	NT	NT	3.2	2.3	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*	**
Benzo(a)pyrene	mg/kg	NT	NT	4.2	2.7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*	**
Benzo(b)fluoranthene	mg/kg	NT	NT	6	3.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*	**
Benzo(g,h,i)perylene	mg/kg	NT	NT	3.7	2.3	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Benzo(k)fluoranthene	mg/kg	NT	NT	1.9	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*	**
Chrysene	mg/kg	NT	NT	3.6	2.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*	**
Fluoranthene	mg/kg	NT	NT	6.3	4.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	295	6800
Indeno(1,2,3-cd)pyrene	mg/kg	NT	NT	2.9	1.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*	**
Phenanthrene	mg/kg	NT	NT	8.5	3.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Pyrene	mg/kg	NT	NT	6.0	4.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	272	5800
BaP Equivalents	mg/kg	NT	NT	5.36	3.52	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	3
Carcinogenic BaP Equivalents	mg/kg	NT	NT	6.87	4.33	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10.2	NE
RCRA Metals																		
Arsenic	mg/kg	1.4	7.7	1.0	5.5	6.6	9.5	9.2	3.3	8.9	4.2	10.1	1.9	1.9	1.3	1.3	15.1	20
Barium	mg/kg	25.7	75.8	35.5	132	85.5	74.7	252	39.7	170	49.9	115	11.0	11.0	58.9	58.9	842	18,000
Cadmium	mg/kg	0.12	0.32	0.46	0.41	0.33	0.26	0.14	0.55	1.4	0.66	0.077	0.29	0.29	0.12	0.12	4.4	200
Chromium	mg/kg	9.4	10.7	12.3	18.9	20.1	17	11.9	9.9	14.4	9.1	17.6	9.9	9.9	10.2	10.2	18/1,000,000 ⁽³⁾	200/100,000 ⁽³⁾
Lead	mg/kg	22.5	53.8	10300	158	88.7	53.2	503	13.2	389	3.9	8	1.8	1.8	5.8	5.8	525	700
Mercury	mg/kg	0.038	ND	0.21	0.54	0.11	0.070	0.082	ND	0.32	ND	0.032	ND	ND	0.052	0.052	1.6	1.5
Selenium	mg/kg	1.4	0.91	ND	ND	0.72	1.8	ND	0.90	1.7	1.1	2.3	2.3	2.3	0.58	0.58	1.5	1,300
Silver	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	1,300
Date Collected		7/7/2009	7/9/2009	7/7/2009	7/10/2009	7/8/2009	7/9/2009	7/8/2009	7/8/2009	7/8/2009	7/8/2009	7/8/2009	7/13/2009	7/13/2009	7/6/2009	7/6/2009		

Notes:

⁽¹⁾ Diesel Range Organics with Silica Gel Cleanup Procedure

⁽²⁾ Only detected compounds shown

⁽³⁾ Chromium VI/Chromium III

GRO - Gasoline Range Organics

VOCs - Volatile Organic Compounds

SVOCs - Semi-Volatile Organic Compounds

mg/kg - milligrams per kilogram

ug/kg - micrograms per kilogram

RCRA - Resource Conservation and Recovery Act

ND - Not Detected

NE - Not Established

NT - Not Tested

* - See Carcinogenic BaP Equivalents

** - See BaP Equivalents

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-6-09	Drilling Contractor: AET
Boring ID: B-1	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 100.5	Drilling Method: HAS/Mud Rotary
Depth to Groundwater (feet):	Weather: Partly Sunny 70°

Boring Location:

Depth (feet)	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (i.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-1	Asphalt Surface					<1	
1-2	Brown Gravelly fill	Dry	None	Fill		<1	Asbestos
1-2	Dark brown silty sand fill	Dry	None	Fill		<1	
2-4	Black sandy silt with organics	Moist	None	Fill		<1	
4.5-6.5	Black organic clay with trace of concrete	Moist	None	Fill		<1	
7-9	Fine white sand with pieces of sandstone	Moist	None	Fill		<1	
9.5-11.5	Sandstone fill	Sat. @ 10'	None	Fill		<1	Soil
12-14.5	Black silty fine to medium sand with pieces of brick	Moist	None	Fill		<1	
18-21	Grey lean silty clay stiff	Moist	None	Native		<1	
24-26	Grey lean clay stiff	Moist	None	Native		<1	
29-31	Grey lean clay less stiff more ?	Moist	None	Native		<1	
34-36	Grey medium soft sand clay silt	Moist	None	Native		<1	
39-41	Grey/tan soft sandy clay	Moist/Wet	None	Native		<1	
44-46	Grey fine sandy clay	Wet	None	Native		<1	
49-51	Grey fine silty sand trace of clay	Saturated	None	Native		<1	
55-56	Grey fine silty sand trace of clay	Saturated	None	Native		<1	
56-61	Grey fine silty sand trace of clay	Saturated	None	Native		<1	
64-66	Grey lean sandy clay stiff	Moist	None	Native		<1	
69-71	Grey fine silty sand	Wet & Sat.	None	Native		<1	
63-76	Grey fine sand - less silt	Saturated	None	Native		<1	
79-81	Grey fine silty clayey sand changing to clay at 80'	Saturated	None	Native		<1	
84-86	Grey silt with trace of sand	Wet	None	Native		<1	
89-91	Brown silty sandy clay	Wet	None	Native		<1	
94-96	Light brown clay changing to medium coarse clayey sand	Wet	None	Native		<1	
98-100	Brown grey gravelly sand	Sat	None	Native		<1	

Notes: Mud ? @ 45', no contamo, 12-14' Soil Sample, 1-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-9-09	Drilling Contractor: AET
Boring ID: B-2	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 61	Drilling Method: HAS/Mud Rotary
Depth to Groundwater (feet):	Weather: Overcast 64-70°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (I.e., 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Brown silty sand fill with gravel and rock	Dry	None	Fill		<1	Asbestos
2-4	Brown silty sand fill with gravel and rock	Dry	None	Fill		<1	
4-6	Dark brown silty sand with brick and rock	Dry	None	Fill		<1	Soil
0.5-8	brown/grey silty sand with fill, brick	Moist	None	Fill		<1	
8.5-11.5	Dark brown peat changing to grey sand silt	Wet to Sat.	None	Native		<1	
11.5-13.5	Silty sand with rock - limited recovery	Saturated	None	Native		<1	
14-16	Grey sandy silt - silty sand, fine grained	Saturated	None	Native		<1	
16.5-18.5	Grey silty clay - trace of sand	Moist	None	Native		<1	
19-21.5	Grey silty clay - trace of sand and gravel	Moist	None	Native		<1	
34-36	Grey clayey silt - silty clay	Moist	None	Native		<1	
39-41	Grey clay with trace of sand	Moist	None	Native		<1	
44-46	Grey clayey silt with fines	Moist	None	Native		<1	
49-50	Grey fine sandy silt	Moist	None	Native		<1	
54-56	Grey sandy silt with trace of clay	Moist	None	Native		<1	
59-61	Grey silty sand fine to medium grained	Moist	None	Native		<1	

Notes: 0-8' Soil Sample, 1-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-7-09	Drilling Contractor: AET
Boring ID: B-3	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 120	Drilling Method: HAS/Mud Rotary
Depth to Groundwater (feet): 14	Weather: Mostly Sunny 72-80°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (I.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-6"	Asphalt Surface						
3"-6"	Gravel fill		None	Fill			6"-1' Asbestos
9"-1.5'	Limestone rock pieces		None	Fill			
2-4	Brown silty sand fill asphalt @ 3.5'	Moist	None	Fill	6"	<1	
4.5-6.5	Gravel, brick, wood - limited recovery	Moist	Slight creosote odor from pieces of wood	Fill		1	
7-9	Fill, silty sand with gravel and foundry sand clinkers	Saturated	None	Fill	6"	8	Soil
9.5-11.5	Sandy fill, foundry sand	Saturated	None	Fill	16"	2	
12-14	Black silt and sand fill	Saturated	None	Fill	12"	2.0	
14.5-16.5	Dark grey gravelly sand	Saturated	None	Fill	12"	<1	
15-21.5	Grey clay	Wet	None	Native		<1	
24-26	Grey clay	Moist	None	Native		<1	
29-31	Grey clay	Moist	None	Native		<1	
34-36	Grey silt with trace of sand	Moist	None	Native		<1	
39-41	Grey clay	Moist	None	Native		<1	
44-46	Clay	Moist	None	Native		<1	
46-51	Clay	Moist	None	Native		<1	
59-61	Grey very fine silty sand, sandy silt	Wet	None	Native		<1	
64-66	Grey very fine sand and silt	Saturated	None	Native		<1	
69-71	Grey sand silt very fine	Saturated	None	Native		<1	
74-76	Grey sandy silt with trace of clay	Wet	None	Native		<1	
79-81	Grey lean clay fill	Moist	None	Native		<1	
84-86	Light brown/grey brown clay till trace of gravel	Moist	None	Native		<1	
89-91	Grey sand gravel with silt	Moist	None	Native		<1	
94-96	Boulders	Wet to Sat.	None	Native		<1	
99-101	Black rock - boulder	Saturated	None	Native		<1	
104-105	No recovery	Wet	None	Native			
109	Rust tan sandstone	Saturated	None	Native		<1	
119	Limited recovery	Moist/Wet	None	Native		<1	

Notes: 7-9' Soil Sample, 6"-1' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-10-09	Drilling Contractor: AET
Boring ID: B-4	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 80	Drilling Method: HAS/Mud Rotary
Depth to Groundwater (feet):	Weather: Mostly Sunny 72-80°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (i.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Asphalt Surface	Dry	None				
2-4	Dark brown silty sand and gravel	Dry	None	Fill		<1	Asbestos
4.5-6.5	Limited recovery limestone rock	Moist	None	Fill		<1	
4.5-6.5	Rock silty sand with cinder/clinkers - limited recovery not enough for sample	Moist	None	Fill		<1	
7-9	Black sandy fill with evidence of furnace type waste - glass, clinkers, ash	Moist	None	Fill		<1	Soil
9.5-11.5	Black sandy fill with evidence of furnace type waste - glass, clinkers, ash	Moist	None	Fill		<1	
12-13.5	Dark brown silty clay changing to grey silty sand	Moist	None	Native		<1	
14-16.5	Silty sand with wood and peat	Moist	None	Native		<1	
17-19.5	Grey silty clay	Moist	None	Native		<1	
24-16	Grey silt	Moist	None	Native		<1	
	Set up mud rotary	Moist	None	Native			
29-31	Grey sandy clay	Moist	None	Native		<1	
34-36	Grey sandy silt	Moist	None	Native		<1	
34-41	Grey sandy silt	Saturated	None	Native		<1	
45-46	Grey sandy silt	Saturated	None	Native		<1	
49-51	Grey sandy silt, silty sand	Saturated	None	Native		<1	
54-56	Grey sandy clayey silt	Saturated	None	Native		<1	
59-61	Grey sandy clay	Wet	None	Native		<1	
64-66	Grey sandy clay	Wet	None	Native		<1	
69-71	Loose silty sand - sandy silt	Saturated	None	Native		<1	
75-76	Gray till with gravel and rock - limited recovery	Wet	None	Native		<1	
79-80	Coarse sandy gravel	Saturated	None	Native		<1	

Notes: 7-9' Soil Sample, 1-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-8-09	Drilling Contractor: AET
Boring ID: B-5	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 61	Drilling Method: HAS/Mud Rotary
Depth to Groundwater (feet):	Weather: Mostly Sunny 72-80°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (I.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
	Asphalt Surface						
0-2	Dark brown silty sand fill with gravel	Moist	None	Fill		1	Asbestos
2-4	Dark brown silty sand with rock	Moist	None	Fill		1	
4-6	Dark brown silty sand with rock	Moist	Slight Petro Odor	Fill		5	Soil
7-9	Dark brown silty sand	Moist	Slight Odor	Fill		2	
9.5-11	Dark brown silty sand changing to concrete	Wet	None	Fill		1	
12-13	Concrete pieces with dark brown silty sand	Saturated	None	Fill		<1	
14.5-16	Weathered limestone	Saturated	None	Fill		<1	
18-20	Black medium sand	Saturated	None	Fill		<1	
24-25	Grey silty sand with clay	Saturated	None	Native		<1	
29-31	Grey sandy clay	Wet	None	Native			
34-36	Grey silty sand with clay	Wet	None	Native		<1	
39-41	Grey sandy clay	Moist	None	Native		<1	
44-46	Grey sandy silt, clayey silt	Moist to Wet	None	Native		<1	
49-51	Grey silty clay	Moist	None	Native		<1	
54-56	Grey silty clay	Moist	None	Native		<1	
59-61	Grey silty clay	Moist	None	Native		<1	

Notes: 4-6' Soil Sample, 1.5-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-8-09	Drilling Contractor: AET
Boring ID: B-6	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 61	Drilling Method: HAS/Mud Rotary
Depth to Groundwater (feet):	Weather: Mostly Sunny 72-80°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (i.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Asphalt Surface						
0-2	Brown silty sand with gravel	Dry	None	Fill		<1	Asbestos Soil
2-4	Grey to dark brown silty sand fill with gravel	Moist	None	Fill		<1	
4-6.5	Grey silty sand	Moist	None	Fill		<1	
6.5-8.5	Dark grey clay with sand layer changing to dark brown peat	Moist/wet	None	Native		<1	
9-11.5	Peat changing to sandy gravel with rock	Saturated	None	Native		<1	
12-14	Medium to coarse sandy gravel	Saturated	None	Native		<1	
	Started with mud rotary	Saturated	None	Native		<1	
14.5-16.5	Grey silty clay	Sat. to Wet	None	Native		<1	
17-19	Grey clay	Saturated	None	Native		<1	
19.5-21	Grey clay	Saturated	None	Native		<1	
24-26	Sandy silt	Saturated	None	Native		<1	
29-31	Sandy silt	Saturated	None	Native		<1	
34-36	Silty sand, sandy silt	Saturated	None	Native		<1	
39-41	Silty sand fine to medium grained	Saturated	None	Native		<1	
44-46	Medium to coarse sandy gravel	Saturated	None	Native		<1	
49-51	Sandy gravel	Saturated	None	Native		<1	
54-56	Sandy gravel	Saturated	None	Native		<1	
59-61	Sandy gravel	Saturated	None	Native		<1	

Notes: 2-4' Soil Sample, 1-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-8-09	Drilling Contractor: AET
Boring ID: B-7	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 16	Drilling Method: HAS/Mud Rotary
Depth to Groundwater (feet):	Weather: Clear 75°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (i.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Brown silty sand	Dry	none	Fill		<1	Asbestos Soil
2-4	Dark brown silty sand - peat fill	Dry	none	Fill		<1	
4-6	Black organic silty sand	Moist	none	Fill		<1	
6-8	Dark grey organic sandy silt with trace of clay	Wet	none	Fill		<1	
8.5-11	Sandy silt changing to coarse sand with gravel @ 10.8'	Saturated	none	Fill		<1	
11.3-14	Grey sandy clay fill	Wet	none	Fill		<1	
14-16	Grey sand clay fill sand seam @ 15.5'	Moist to Wet	none	Fill		<1	

Notes: 1-3' Soil Sample, 1-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-8-09	Drilling Contractor: AET
Boring ID: B-8	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 16.5	Drilling Method: HAS
Depth to Groundwater (feet):	Weather: Partly Cloudy 75°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (i.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Asphalt Dark brown sandy gravel fill	Moist	None	Fill		1	Asbestos
2-4	Silty sand fill - peat fill with wood and rubber	Moist	None	Fill		5	Soil
4-6	Dark grey fine silty sand	Wet	None	Fill		1	
6-8	Grey medium grained clayey sand	Wet	None	Native		<1	
8.5-10	Coarse sand changing to grey clay	Wet to Sat.	None	Native		<1	
10.5-11	Clay	Saturated	None	Native		<1	
12-13.5	Grey clay trace of sand	Wet	None	Native		<1	
14-16.5	Grey clay	Wet	None	Native		<1	

Notes: 3-5' Soil Sample, 1-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-8-09	Drilling Contractor: AET
Boring ID: B-9	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 16	Drilling Method: HAS
Depth to Groundwater (feet):	Weather: Partly Sunny 70-80°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (i.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Asphalt Brown sandy fill	Dry	None	Fill	16"	<1	Asbestos
2-4	Dark brown sandy fill, piece of coal slag trace of clay fill	Dry	None	Fill	16"	<1	Soil
4.5-6	Brown sand changing to dark brown silty peat	Moist	None	Native	12"	<1	
7.5-8.5	Grey fine silty sand	Moist	None	Native	18"	<1	
9-11	Grey brown sandy silt, silty sand	Saturated	None	Native	20"	<1	
12-14	Silty sand with gravel	Saturated	None	Native	20"	<1	
14-16	Silty sand changing to sandy clay @ 15'	Saturated	None	Native	20"	<1	

Notes: 3-5' Soil Sample, 1.5-2' Asbestos

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-8-09	Drilling Contractor: AET
Boring ID: B-10	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 21	Drilling Method: HAS
Depth to Groundwater (feet):	Weather: Partly Sunny 70-80°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (I.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Asphalt						
0-2	Brown silty sand fill		None	Fill		<1	Asbestos
2-4	Silty sand changing to light brown clay @ 3.5'		None	Fill		<1	Soil
4-6	Tan medium to coarse sand with trace of gravel	Dry to Moist	None	Native		<1	
6-8.5	Tan medium to coarse sand with gravel and rock	Moist	None	Native		<1	
9-11	Tan coarse sandy gravel	Saturated	None	Native		<1	Soil
12-13.5	Grey sandy clay fill	Moist	None	Native		<1	
14-16	Clay		None	Native		<1	
16-18.5	Grey clay		None	Native		<1	
19.5-21	Grey clay		None	Native		<1	

Notes: 4-6' Soil Sample, 1-2' Asbestos, 9-11' Soil sample submitted later

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-8-09	Drilling Contractor: AET
Boring ID: B-11	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 21	Drilling Method: HAS
Depth to Groundwater (feet):	Weather: Partly Sunny 70-80°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (I.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-4	Dark brown sandy silt with organics (topsoil)	Dry	None	Fill		<1	
4-8	Dark brown sandy silt changing to medium to coarse sand	Dry	None	Native		<1	
8-12	Tan-light brown medium sand, little to no silt changing to medium to coarse sand. Water @ 11.7' trace of gravel @ Interface		None	Native		<1	
12-16	Tan medium sand with trace of silt changing to tan coarse sand with gravel @ 14.5' - 15.5' changed to grey stiff clay	Moist	None	Native		<1	

Notes: 4-6' Soil Sample, 1-2' Asbestos, 9-11' Soil sample submitted later

LIESCH ASSOCIATES, INC.

Project: Scherer Brothers	Logged by: Tom Johnson
Date: 7-6-09	Drilling Contractor: AET
Boring ID: B-12	Driller/Assistant Name: Denny/Shawn
Boring Depth (feet): 60	Drilling Method: HAS/Mod Rotary
Depth to Groundwater (feet):	Weather: Partly Cloudy 78°

Boring Location:

Depth	Sample Lithology: color, grain size, grain size distribution, stiffness and other sample / drilling notes	Moisture (dry/moist/wet/saturated)	Chemical staining or odor	USCS	Sample Recovery-feet (i.e. 1.5 of 2)	PID (ppm)	Lab Sample Collected
0-2	Asphalt						
2.5-3.5	Black silty sand and gravelly fill, wood (railroad tie)	Moist	None	Fill	18"	<1	
4-6	Gravelly sand fill changing to black silt fill	Moist	None	Fill	20"	<1	
5.5-8.5	Black peaty fill with gravel, brick, glass	Moist	None	Fill	18"	<1	Asbestos
9-11	Peat fill - some pieces of glass	Moist	None	Fill	12"	<1	
11.5-13.5	Limited recovery			Fill		<1	Soil
14-16	Grey medium grained sand	Saturated	None	Native	16"	<1	
19.5-21.5	Grey medium sand, becoming more fine changing to gravel clay @ 15.5'	Wet	None	Native	20"	<1	
24-26	Grey sand and silt silty sand	Saturated	None	Native	22"	<1	
34-36	Grey silty clay	Wet to Moist	None	Native	20"	<1	
39-41	Grey silty clay	Moist	None	Native	18"	<1	
44-46	Gray clay	Moist	None	Native	22"	<1	
49-51	Gray clay more silt less stiff	Moist	None	Native	20"	<1	
51-56	Grey clay	Moist	None	Native	22"	<1	
59-60	Grey silty clay	Moist	None	Native	24"	<1	
	Grey sandy silt, loose	Saturated	None	Native	20"	<1	
	Grey sandy silt, loose	Saturated	None	Native	20"	<1	

Notes: 11-13' Soil Sample, 6-10' Asbestos



APPENDIX C

METHODS AND PROCEDURES

Soil Investigation

Soil borings B-1 through B-20 were completed using a hydraulic push probe operated by Bergerson-Caswell, Inc. The soil borings were advanced to depths ranging from 10 to 12 feet below ground surface (bgs). Soil samples were collected from the soil borings at continuous four-foot intervals using a 2-inch diameter sample barrel with a plastic liner. The borings were sealed with bentonite grout in accordance with Minnesota Department of Health (MDH) requirements.

All equipment that would contact a soil sample was decontaminated between sampling intervals. The decontamination procedure consisted of soap and water wash and a tap water rinse. No oil, grease, or other petroleum-based lubricants were used on the sampling equipment.

Soil samples were field screened by half-filling a clean plastic bag with the soil sample and then quickly sealing the bag. The sample was agitated by shaking before and after a ten to fifteen minute period of headspace development. Frozen samples, to a depth of 4 feet bgs, were allowed thaw overnight prior to headspace vapor measurements. The measurements were taken from the headspace of the bag with a photoionization detector (PID) equipped with a 10.6 eV lamp. The PID was calibrated using an isobutylene standard to measure "total organic vapors" in parts per million by volume (ppmv) in air.

The soil samples were placed in laboratory-supplied glass containers and stored in a cooler with ice. All of the sample containers were labeled with the project number, location and sampling date. A Chain of Custody form was completed and delivered with the samples to the laboratory. Soil samples were submitted to Legend Technical Services, Inc. for analyses.



APPENDIX D



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-1
---------------------------------	---	------------------------	------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown Sand and Gravel with ash and limestone, moist.	ND	
2	8	Grey silty Sand, moist.	ND	
		Wet @ 7 ft.	ND	
3	8	Brown Sand, some gravel, wet.	ND	
		Grey silty Sand, moist to wet.	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-2
---------------------------------	---	------------------------	------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel. Brown Sand with ash and brick, moist.	ND	PID measurements obtained using bag headspace
		Brown Sand some clay, moist.		
2	8	Brown silty Sand, moist. Wet @ 7 ft.	ND	
			ND	
3		Brown/grey Sand and Gravel, wet. Grey sandy clay, moist.	ND	
			ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-3
---------------------------------	---	------------------------	------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Dark brown Sand with ash/slag and gravel, moist.	ND	
Brown Sand and limestone, moist.		ND		
2		Brown Sand with organics/wood, moist.	ND	
3	8	Brown Sand and Gravel with wood and limestone, moist.	ND	
			ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-4
---------------------------------	---	------------------------	------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Dark brown Sand with ash and gravel, moist.	ND	
2	4	Brown Sand, gravel, concrete and brick, moist.	ND	
		Brown Sand with organics/ash and gravel, moist.	ND	
3	8	Brown Sand and Gravel, moist to wet.	ND	
		Dark brown Sand with gravel and organics, moist to wet, obstructed by concrete @ 11.5 ft	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-5
---------------------------------	---	------------------------	------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown Sand and Gravel, some organics, moist.	ND	
Layer of concrete and ash/slag @ 3 ft.		ND		
Concrete @ 5.5 ft.		ND		
2	8	Dark brown Sand some organics and gravel, moist.	ND	
3		Brick from 9 to 11 ft	ND	
				ND
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-6 and 6A
---------------------------------	---	------------------------	-------------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		SB-6A obstructed by concrete @ 3ft.
		Brown Sand, little gravel, moist.	ND	
		Layer of concrete and ash/slag @ 3 ft.		
2	4	Brown Sand and Gravel, little ash, moist.	ND	PID measurements obtained using bag headspace
		Concrete.		
3	8	Brown Sand and Gravel, moist.	ND	SB-6 obstructed by wood @ 11 ft.
		Dark brown Sand, Gravel and organics, wet.	ND	
		End of Boring @ 11 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-7 and 7A
---------------------------------	---	------------------------	-------------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel. Brown Sand, gravel and concrete, moist.		SB-7A obstructed by concrete @ 2 ft. PID measurements obtained using bag headspace
2		Brown Sand with gravel, little ash and brick.	ND	
3	8	Brown Sand and Gravel some concrete, moist.	ND	
		Dark brown organics/peat/wood, moist.	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-8
---------------------------------	---	------------------------	------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown Sand with ash, wood and concrete, moist.	ND	
2	8	Brown Sand with ash and gravel, moist.	ND	
		Limestone to 6.5 ft.		
3	8	Brown Sand with ash, wood and gravel, moist.	ND	
		Wood chips.		
		Grey silty Sand with gravel, moist to wet.	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-9
---------------------------------	---	------------------------	------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown Sand with ash, wood and concrete, moist.	ND	
2	8	Brown Sand, organics and concrete, moist.	ND	
		Dark brown silty Sand, some organics, moist.	ND	
		Grey silty Sand, moist.	ND	
3	8	Dark brown Organics and sand, wet.	ND	
		Brown Sand and gravel, wet.		
		Boring obstructed cobble/boulder @ 10 ft. End of Boring @ 10 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-1-10	Boring: SB-10
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Wood.		
Brown Sand with ash and gravel, moist.		ND		
Brown Sand with brick, limestone, and concrete, moist .				
2	8	Brown silty Sand with gravel, moist to wet.	ND	
		Tan silty Sand, wet.	ND	
3		Grey silty Sand with gravel, wet.		
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-11
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown Sand with gravel and concrete, moist.		
2	8	Brown silty Sand with organics, some ash, moist.	ND	
		Brown silty Sand, moist.	ND	
		Brown/tan silty Sand and Sand, moist to wet.	ND	
3		Brown/tan silty Sand, some gravel, moist to wet.	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-12
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Dark brown Sand with organics, some ash, moist.	ND	
Brown silty Sand, moist.				
2	8	Tan Sand, some fine gravel, moist.	ND	
			ND	
ND				
3		Grey fine Gravel, some sand, moist to wet.		
		Grey sandy Silt, moist.		
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-13
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown Sand with organics, some ash/slag, moist.	ND	
2		Brown/tan medium to coarse Sand, moist.	ND	
			ND	
3	8	Brown/tan Sand with fine gravel, wet.	ND	
		Grey silty Clay, moist.		
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-14
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Dark brown silty Sand, little gravel and organics, moist.	ND	
2	8	Brown Sand, some gravel, brick and concrete, moist.	ND	
		Brown Sand, some gravel, moist.	ND	
3		Grey silty Sand, some organics, wet.	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-15
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Grey silty Sand, some gravel, moist.	ND	
2		concrete @ 5 ft.	ND	
		some ash from 6 to 8 ft.	ND	
3	8		ND	Obstructed by wood @11.5 ft.
		Grey silty Sand, some limestone, wet.	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-16
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Grey silty Sand, some gravel, moist.	ND	
Concrete				
2		Grey silty Sand, some gravel and brick, moist.	ND	
	8	Brown Sand, some silty sand and brick, moist.	ND	
3		Dark brown silty Sand, some gravel and organics, wet.	ND	
		Limestone.		
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
 3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
 (612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-17
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown silty Sand, some gravel, moist.	ND	
2	8	Limestone.		
		Brown/tan Sand, little silt and gravel, moist.	ND	
3		Brown Sand, some clay and brick, moist to wet.	ND	
		Wood and peat.		
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-18
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Tan, medium to coarse Sand, little gravel, moist.	ND	
2	8	Layers of sandy Clay from 5 to 7 ft.	ND	
			ND	
3		Brown Sand, layers of wood and peat, moist.		
		Grey Sand and fine gravel, wet	ND	
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505



BORING LOG

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-19
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace
		Brown Sand, some gravel and organics, little brick, moist.	ND	
2	8	Brown Sand, with shale and limestone, moist.	ND	
		Dark brown organics and wood, some sand, moist.	ND	
3		Grey silty Sand, some gravel, moist to wet.	ND	
		Layers of Sand, wet.		
		End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--

R.J.RYKKEN CONSULTING, INC.
3330 FREMONT CIRCLE N.W., PRIOR LAKE, MN 55372
(612) 447-6505

RJR Project No: 10-03	Project Description: MPLS Park & Rec – Scherer Brothers	Date: 3-2-10	Boring: SB-20
---------------------------------	---	------------------------	-------------------------

Sample No.	Depth (Feet)	Description	PID (ppmv)	Comments		
1	4	Asphalt, Sand and Gravel.		PID measurements obtained using bag headspace		
		Dark brown Sand, some organics and slag, moist.	ND			
2	4	Brown/tan medium to coarse Sand, moist.	ND			
			ND			
3	8		Layers of fine gravel, wet.		ND	
					ND	
				End of Boring @ 12 Feet		

Driller: Bergerson-Caswell	Drilling Method: Push Probe – Macro (4') Samples
--------------------------------------	--



APPENDIX E



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

April 01, 2010

REVISION

Mr. Robert Rykken
RJ Rykken Consulting
3330 Fremont Circle NW
Prior Lake, MN 55372

Work Order Number: 1000766
RE: MPLS Parks Scherer

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 03/04/10. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Barb Rutten
Client Manager II
brutten@legend-group.com

Terri Olson
Report Reviewer
tolson@legend-group.com

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (1'-3')	1000766-01	Soil	03/01/10 00:00	03/04/10 12:30
SB-2 (1'-3')	1000766-02	Soil	03/01/10 00:00	03/04/10 12:30
SB-3 (1'-2.5')	1000766-03	Soil	03/01/10 00:00	03/04/10 12:30
SB-3 (5'-6')	1000766-04	Soil	03/01/10 00:00	03/04/10 12:30
SB-4 (0.5'-2')	1000766-05	Soil	03/01/10 00:00	03/04/10 12:30
SB-4 (6'-8')	1000766-06	Soil	03/01/10 00:00	03/04/10 12:30
SB-5 (2'-4')	1000766-07	Soil	03/01/10 00:00	03/04/10 12:30
SB-6 (3'-4')	1000766-08	Soil	03/01/10 00:00	03/04/10 12:30
SB-7 (5'-7')	1000766-09	Soil	03/01/10 00:00	03/04/10 12:30
SB-8 (1'-3')	1000766-10	Soil	03/01/10 00:00	03/04/10 12:30
SB-8 (6.5'-8')	1000766-11	Soil	03/01/10 00:00	03/04/10 12:30
SB-9 (1'-2')	1000766-12	Soil	03/01/10 00:00	03/04/10 12:30
SB-10 (2'-3')	1000766-13	Soil	03/01/10 00:00	03/04/10 12:30
SB-11 (2.5'-4')	1000766-14	Soil	03/02/10 00:00	03/04/10 12:30
SB-12 (1'-2.5')	1000766-15	Soil	03/02/10 00:00	03/04/10 12:30
SB-13 (1'-2.5')	1000766-16	Soil	03/02/10 00:00	03/04/10 12:30
SB-14 (2'-4')	1000766-17	Soil	03/02/10 00:00	03/04/10 12:30
SB-15 (6'-8')	1000766-18	Soil	03/02/10 00:00	03/04/10 12:30
SB-16 (1'-3')	1000766-19	Soil	03/02/10 00:00	03/04/10 12:30
SB-17 (1'-2.5')	1000766-20	Soil	03/02/10 00:00	03/04/10 12:30
SB-19 (2'-4')	1000766-21	Soil	03/02/10 00:00	03/04/10 12:30
SB-20 (1'-2')	1000766-22	Soil	03/02/10 00:00	03/04/10 12:30

Shipping Container Information

Default Cooler Temperature (°C): 7.4

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

This report was revised on April 1, 2010 to include TCLP Pb on samples SB-1 (1'-3'), SB- 8 (6.5'-8'), SB-14 (2'-4') and TCLP Hg on SB-1 (1'-3') per the client's request.

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (1'-3') (1000766-01) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Arsenic	16	0.60	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	250	1.2	0.15	mg/kg dry	1	"	"	"	"	
Cadmium	14	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	16	0.60	0.014	mg/kg dry	1	"	"	"	"	
Lead	940	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	8.0	1.2	0.050	mg/kg dry	10	B0C1014	03/10/10	03/15/10	EPA 7471A	
Selenium	1.8	1.2	0.13	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
SB-2 (1'-3') (1000766-02) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Arsenic	14	0.55	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	57	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	32	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	9.0	0.55	0.013	mg/kg dry	1	"	"	"	"	
Lead	120	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0046	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.27	0.27	0.0099	mg/kg dry	1	"	"	"	"	
SB-3 (1'-2.5') (1000766-03) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Arsenic	24	0.55	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	120	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	1.4	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	18	0.55	0.013	mg/kg dry	1	"	"	"	"	
Lead	180	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	0.74	0.11	0.0046	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.27	0.27	0.0099	mg/kg dry	1	"	"	"	"	
SB-3 (5'-6') (1000766-04) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Arsenic	3.0	0.59	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	59	1.2	0.15	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	10	0.59	0.014	mg/kg dry	1	"	"	"	"	
Lead	24	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0049	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.29	0.29	0.011	mg/kg dry	1	"	"	"	"	
SB-4 (0.5'-2') (1000766-05) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Arsenic	3.5	0.54	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-4 (0.5'-2') (1000766-05) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Barium	60	1.1	0.14	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Cadmium	0.39	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	14	0.54	0.013	mg/kg dry	1	"	"	"	"	
Lead	23	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	0.19	0.11	0.0045	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.27	0.27	0.0097	mg/kg dry	1	"	"	"	"	

SB-4 (6'-8') (1000766-06) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	9.4	0.59	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	84	1.2	0.15	mg/kg dry	1	"	"	"	"	
Cadmium	0.85	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	19	0.59	0.014	mg/kg dry	1	"	"	"	"	
Lead	170	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	0.17	0.12	0.0049	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.29	0.29	0.011	mg/kg dry	1	"	"	"	"	

SB-5 (2'-4') (1000766-07) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	3.5	0.56	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	52	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	0.35	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	11	0.56	0.013	mg/kg dry	1	"	"	"	"	
Lead	41	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	0.15	0.11	0.0047	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	

SB-6 (3'-4') (1000766-08) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	3.4	0.53	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	41	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	8.7	0.53	0.013	mg/kg dry	1	"	"	"	"	
Lead	11	1.1	0.036	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0044	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.26	0.26	0.0095	mg/kg dry	1	"	"	"	"	

SB-7 (5'-7') (1000766-09) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	4.4	0.56	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	70	1.1	0.14	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-7 (5'-7') (1000766-09) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Cadmium	0.35	0.28	0.028	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Chromium	8.7	0.56	0.013	mg/kg dry	1	"	"	"	"	
Lead	52	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	0.14	0.11	0.0044	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	

SB-8 (1'-3') (1000766-10) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	3.0	0.54	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	46	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	12	0.54	0.013	mg/kg dry	1	"	"	"	"	
Lead	41	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	0.15	0.11	0.0046	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.27	0.27	0.0098	mg/kg dry	1	"	"	"	"	

SB-8 (6.5'-8') (1000766-11) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	17	0.70	0.14	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	820	1.4	0.18	mg/kg dry	1	"	"	"	"	
Cadmium	2.3	0.35	0.035	mg/kg dry	1	"	"	"	"	
Chromium	19	0.70	0.017	mg/kg dry	1	"	"	"	"	
Lead	1000	1.4	0.048	mg/kg dry	1	"	"	"	"	
Mercury	0.16	0.14	0.0059	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	1.8	1.4	0.15	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	0.95	0.35	0.013	mg/kg dry	1	"	"	"	"	

SB-9 (1'-2') (1000766-12) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	3.3	0.53	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	41	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	0.31	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	19	0.53	0.013	mg/kg dry	1	"	"	"	"	
Lead	64	1.1	0.036	mg/kg dry	1	"	"	"	"	
Mercury	0.15	0.11	0.0045	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.27	0.27	0.0096	mg/kg dry	1	"	"	"	"	

SB-10 (2'-3') (1000766-13) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Arsenic	7.5	0.54	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	70	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	0.59	0.27	0.027	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-10 (2'-3') (1000766-13) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30

Chromium	9.5	0.54	0.013	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Lead	69	1.1	0.036	mg/kg dry	1	"	"	"	"	
Mercury	0.19	0.11	0.0048	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.27	0.27	0.0097	mg/kg dry	1	"	"	"	"	

SB-11 (2.5'-4') (1000766-14) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	8.7	0.68	0.14	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	130	1.4	0.18	mg/kg dry	1	"	"	"	"	
Cadmium	1.0	0.34	0.034	mg/kg dry	1	"	"	"	"	
Chromium	15	0.68	0.016	mg/kg dry	1	"	"	"	"	
Lead	310	1.4	0.047	mg/kg dry	1	"	"	"	"	
Mercury	0.24	0.14	0.0058	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.4	1.4	0.15	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.34	0.34	0.012	mg/kg dry	1	"	"	"	"	

SB-12 (1'-2.5') (1000766-15) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	2.7	0.64	0.13	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	84	1.3	0.17	mg/kg dry	1	"	"	"	"	
Cadmium	<0.32	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	19	0.64	0.015	mg/kg dry	1	"	"	"	"	
Lead	5.0	1.3	0.044	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0051	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.32	0.32	0.012	mg/kg dry	1	"	"	"	"	

SB-13 (1'-2.5') (1000766-16) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	7.9	0.57	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	130	1.1	0.15	mg/kg dry	1	"	"	"	"	
Cadmium	0.33	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	10	0.57	0.014	mg/kg dry	1	"	"	"	"	
Lead	39	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	0.13	0.11	0.0048	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.13	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	0.38	0.29	0.010	mg/kg dry	1	"	"	"	"	

SB-14 (2'-4') (1000766-17) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	5.5	0.52	0.10	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	130	1.0	0.13	mg/kg dry	1	"	"	"	"	
Cadmium	0.49	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	15	0.52	0.012	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-14 (2'-4') (1000766-17) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Lead	500	1.0	0.035	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Mercury	0.40	0.11	0.0046	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	

SB-15 (6'-8') (1000766-18) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	3.3	0.56	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	44	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	8.5	0.56	0.013	mg/kg dry	1	"	"	"	"	
Lead	74	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	0.28	0.11	0.0047	mg/kg dry	1	B0C1014	03/10/10	03/13/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	

SB-16 (1'-3') (1000766-19) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	3.1	0.53	0.11	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Barium	39	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	9.8	0.53	0.013	mg/kg dry	1	"	"	"	"	
Lead	95	1.1	0.036	mg/kg dry	1	"	"	"	"	A-01, M2
Mercury	<0.11	0.11	0.0045	mg/kg dry	1	B0C1015	03/11/10	03/15/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C0804	03/08/10	03/09/10	EPA 6010B	
Silver	0.48	0.27	0.0096	mg/kg dry	1	"	"	"	"	

SB-17 (1'-2.5') (1000766-20) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	3.5	0.56	0.11	mg/kg dry	1	B0C1017	03/10/10	03/11/10	EPA 6010B	
Barium	78	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	9.6	0.56	0.013	mg/kg dry	1	"	"	"	"	
Lead	34	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0047	mg/kg dry	1	B0C1015	03/11/10	03/15/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C1017	03/10/10	03/11/10	EPA 6010B	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	

SB-19 (2'-4') (1000766-21) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Arsenic	3.8	0.54	0.11	mg/kg dry	1	B0C1017	03/10/10	03/11/10	EPA 6010B	
Barium	58	1.1	0.14	mg/kg dry	1	"	"	"	"	
Cadmium	0.28	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	11	0.54	0.013	mg/kg dry	1	"	"	"	"	
Lead	46	1.1	0.037	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-19 (2'-4') (1000766-21) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
Mercury	0.13	0.11	0.0045	mg/kg dry	1	B0C1015	03/11/10	03/15/10	EPA 7471A	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	B0C1017	03/10/10	03/11/10	EPA 6010B	
Silver	<0.27	0.27	0.0097	mg/kg dry	1	"	"	"	"	
SB-20 (1'-2') (1000766-22) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
Arsenic	4.8	0.60	0.12	mg/kg dry	1	B0C1017	03/10/10	03/11/10	EPA 6010B	
Barium	320	1.2	0.15	mg/kg dry	1	"	"	"	"	
Cadmium	1.7	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	12	0.60	0.014	mg/kg dry	1	"	"	"	"	
Lead	180	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0050	mg/kg dry	1	B0C1015	03/11/10	03/15/10	EPA 7471A	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	B0C1017	03/10/10	03/11/10	EPA 6010B	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (1'-3') (1000766-01) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<1.6	1.6	0.090	mg/kg dry	4	B0C1009	03/10/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	<1.6	1.6	0.13	mg/kg dry	4	"	"	"	"	
Acenaphthene	<1.6	1.6	0.13	mg/kg dry	4	"	"	"	"	
Acenaphthylene	<1.6	1.6	0.11	mg/kg dry	4	"	"	"	"	
Anthracene	2.6	1.6	0.12	mg/kg dry	4	"	"	"	"	
Benzo (a) anthracene	8.8	1.6	0.13	mg/kg dry	4	"	"	"	"	
Benzo (a) pyrene	7.4	1.6	0.13	mg/kg dry	4	"	"	"	"	
Benzo (b) fluoranthene	9.4	1.6	0.16	mg/kg dry	4	"	"	"	"	
Benzo (g,h,i) perylene	4.2	1.6	0.14	mg/kg dry	4	"	"	"	"	
Benzo (k) fluoranthene	4.1	1.6	0.15	mg/kg dry	4	"	"	"	"	
Chrysene	8.6	1.6	0.16	mg/kg dry	4	"	"	"	"	
Dibenz (a,h) anthracene	<1.6	1.6	0.16	mg/kg dry	4	"	"	"	"	
Fluoranthene	27	1.6	0.11	mg/kg dry	4	"	"	"	"	
Fluorene	<1.6	1.6	0.086	mg/kg dry	4	"	"	"	"	
Indeno (1,2,3-cd) pyrene	4.6	1.6	0.15	mg/kg dry	4	"	"	"	"	
Naphthalene	<1.6	1.6	0.14	mg/kg dry	4	"	"	"	"	
Phenanthrene	8.1	1.6	0.090	mg/kg dry	4	"	"	"	"	
Pyrene	13	1.6	0.11	mg/kg dry	4	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53.4		46.3-96.2 %			"	"	"	"	
Surrogate: Nitrobenzene-d5	58.2		49.3-94 %			"	"	"	"	
Surrogate: Terphenyl-d14	41.0		51.5-94.6 %			"	"	"	"	S-BN

SB-2 (1'-3') (1000766-02) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.36	0.36	0.021	mg/kg dry	1	B0C1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<0.36	0.36	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.36	0.36	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.36	0.36	0.025	mg/kg dry	1	"	"	"	"	
Anthracene	<0.36	0.36	0.027	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.36	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.36	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.36	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.36	0.36	0.033	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.36	0.36	0.034	mg/kg dry	1	"	"	"	"	
Chrysene	<0.36	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.36	0.36	0.037	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.36	0.36	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.36	0.36	0.020	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.36	0.36	0.035	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.36	0.36	0.032	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.36	0.36	0.021	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (1'-3') (1000766-02) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Pyrene	<0.36	0.36	0.025	mg/kg dry	1	B0C1009	03/10/10	03/11/10	EPA 8270C	
Surrogate: 2-Fluorobiphenyl	73.3		46.3-96.2	%		"	"	"	"	
Surrogate: Nitrobenzene-d5	76.9		49.3-94	%		"	"	"	"	
Surrogate: Terphenyl-d14	61.7		51.5-94.6	%		"	"	"	"	

SB-3 (1'-2.5') (1000766-03) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.73	0.73	0.042	mg/kg dry	2	B0C1009	03/10/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	<0.73	0.73	0.062	mg/kg dry	2	"	"	"	"	
Acenaphthene	<0.73	0.73	0.062	mg/kg dry	2	"	"	"	"	
Acenaphthylene	<0.73	0.73	0.051	mg/kg dry	2	"	"	"	"	
Anthracene	<0.73	0.73	0.055	mg/kg dry	2	"	"	"	"	
Benzo (a) anthracene	1.2	0.73	0.059	mg/kg dry	2	"	"	"	"	
Benzo (a) pyrene	1.2	0.73	0.059	mg/kg dry	2	"	"	"	"	
Benzo (b) fluoranthene	1.8	0.73	0.075	mg/kg dry	2	"	"	"	"	
Benzo (g,h,i) perylene	1.5	0.73	0.066	mg/kg dry	2	"	"	"	"	
Benzo (k) fluoranthene	0.90	0.73	0.068	mg/kg dry	2	"	"	"	"	
Chrysene	1.5	0.73	0.073	mg/kg dry	2	"	"	"	"	
Dibenz (a,h) anthracene	<0.73	0.73	0.075	mg/kg dry	2	"	"	"	"	
Fluoranthene	1.9	0.73	0.053	mg/kg dry	2	"	"	"	"	
Fluorene	<0.73	0.73	0.040	mg/kg dry	2	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1.2	0.73	0.070	mg/kg dry	2	"	"	"	"	
Naphthalene	<0.73	0.73	0.064	mg/kg dry	2	"	"	"	"	
Phenanthrene	0.79	0.73	0.042	mg/kg dry	2	"	"	"	"	
Pyrene	1.2	0.73	0.051	mg/kg dry	2	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	62.7		46.3-96.2	%		"	"	"	"	
Surrogate: Nitrobenzene-d5	60.4		49.3-94	%		"	"	"	"	
Surrogate: Terphenyl-d14	48.7		51.5-94.6	%		"	"	"	"	S-BN

SB-3 (5'-6') (1000766-04) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.39	0.39	0.022	mg/kg dry	1	B0C1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<0.39	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.39	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.39	0.39	0.027	mg/kg dry	1	"	"	"	"	
Anthracene	<0.39	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.39	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.39	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.39	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.39	0.39	0.035	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.39	0.39	0.036	mg/kg dry	1	"	"	"	"	
Chrysene	<0.39	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.39	0.39	0.040	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (5'-6') (1000766-04) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Fluoranthene	<0.39	0.39	0.028	mg/kg dry	1	B0C1009	03/10/10	03/11/10	EPA 8270C	
Fluorene	<0.39	0.39	0.021	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.39	0.39	0.038	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.39	0.39	0.034	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.39	0.39	0.022	mg/kg dry	1	"	"	"	"	
Pyrene	<0.39	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	73.3			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	79.8			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	66.8			51.5-94.6 %		"	"	"	"	

SB-4 (0.5'-2') (1000766-05) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.35	0.35	0.020	mg/kg dry	1	B0C1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	0.77	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.35	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.35	0.35	0.025	mg/kg dry	1	"	"	"	"	
Anthracene	0.42	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	0.80	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	0.89	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	0.90	0.35	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	0.77	0.35	0.032	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	0.48	0.35	0.033	mg/kg dry	1	"	"	"	"	
Chrysene	0.90	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.35	0.35	0.037	mg/kg dry	1	"	"	"	"	
Fluoranthene	2.6	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.35	0.35	0.019	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.51	0.35	0.034	mg/kg dry	1	"	"	"	"	
Naphthalene	0.55	0.35	0.031	mg/kg dry	1	"	"	"	"	
Phenanthrene	1.4	0.35	0.020	mg/kg dry	1	"	"	"	"	
Pyrene	3.5	0.35	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	74.1			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	75.8			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	66.6			51.5-94.6 %		"	"	"	"	

SB-4 (6'-8') (1000766-06) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.39	0.39	0.022	mg/kg dry	1	B0C1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<0.39	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.39	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.39	0.39	0.027	mg/kg dry	1	"	"	"	"	
Anthracene	<0.39	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.39	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	0.63	0.39	0.032	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-4 (6'-8') (1000766-06) Soil **Sampled: 03/01/10 00:00** **Received: 03/04/10 12:30**

Benzo (b) fluoranthene	1.0	0.39	0.040	mg/kg dry	1	BOC1009	03/10/10	03/11/10	EPA 8270C	
Benzo (g,h,i) perylene	0.69	0.39	0.035	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.39	0.39	0.036	mg/kg dry	1	"	"	"	"	
Chrysene	0.58	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.39	0.39	0.040	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.44	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.39	0.39	0.021	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.63	0.39	0.038	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.39	0.39	0.034	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.39	0.39	0.022	mg/kg dry	1	"	"	"	"	
Pyrene	<0.39	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	77.7			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	78.1			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	69.9			51.5-94.6 %		"	"	"	"	

SB-5 (2'-4') (1000766-07) Soil **Sampled: 03/01/10 00:00** **Received: 03/04/10 12:30**

2-Chloronaphthalene	<0.37	0.37	0.021	mg/kg dry	1	BOC1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<0.37	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.37	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.37	0.37	0.026	mg/kg dry	1	"	"	"	"	
Anthracene	0.64	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	2.9	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	2.5	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	2.7	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	1.3	0.37	0.033	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	1.3	0.37	0.034	mg/kg dry	1	"	"	"	"	
Chrysene	2.9	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	0.45	0.37	0.038	mg/kg dry	1	"	"	"	"	
Fluoranthene	5.2	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.37	0.37	0.020	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1.3	0.37	0.036	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.37	0.37	0.032	mg/kg dry	1	"	"	"	"	
Phenanthrene	1.4	0.37	0.021	mg/kg dry	1	"	"	"	"	
Pyrene	4.8	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	76.1			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	78.8			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	67.4			51.5-94.6 %		"	"	"	"	

SB-6 (3'-4') (1000766-08) Soil **Sampled: 03/01/10 00:00** **Received: 03/04/10 12:30**

2-Chloronaphthalene	<0.69	0.69	0.040	mg/kg dry	2	BOC1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<0.69	0.69	0.059	mg/kg dry	2	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-6 (3'-4') (1000766-08) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Acenaphthene	<0.69	0.69	0.059	mg/kg dry	2	B0C1009	03/10/10	03/11/10	EPA 8270C	
Acenaphthylene	<0.69	0.69	0.048	mg/kg dry	2	"	"	"	"	
Anthracene	<0.69	0.69	0.053	mg/kg dry	2	"	"	"	"	
Benzo (a) anthracene	<0.69	0.69	0.057	mg/kg dry	2	"	"	"	"	
Benzo (a) pyrene	<0.69	0.69	0.057	mg/kg dry	2	"	"	"	"	
Benzo (b) fluoranthene	<0.69	0.69	0.072	mg/kg dry	2	"	"	"	"	
Benzo (g,h,i) perylene	<0.69	0.69	0.063	mg/kg dry	2	"	"	"	"	
Benzo (k) fluoranthene	<0.69	0.69	0.065	mg/kg dry	2	"	"	"	"	
Chrysene	<0.69	0.69	0.069	mg/kg dry	2	"	"	"	"	
Dibenz (a,h) anthracene	<0.69	0.69	0.072	mg/kg dry	2	"	"	"	"	
Fluoranthene	<0.69	0.69	0.051	mg/kg dry	2	"	"	"	"	
Fluorene	<0.69	0.69	0.038	mg/kg dry	2	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.69	0.69	0.067	mg/kg dry	2	"	"	"	"	
Naphthalene	<0.69	0.69	0.061	mg/kg dry	2	"	"	"	"	
Phenanthrene	<0.69	0.69	0.040	mg/kg dry	2	"	"	"	"	
Pyrene	<0.69	0.69	0.048	mg/kg dry	2	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	71.7			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	81.0			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	63.9			51.5-94.6 %		"	"	"	"	

SB-7 (5'-7') (1000766-09) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<1.8	1.8	0.11	mg/kg dry	5	B0C1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<1.8	1.8	0.16	mg/kg dry	5	"	"	"	"	
Acenaphthene	2.6	1.8	0.16	mg/kg dry	5	"	"	"	"	
Acenaphthylene	<1.8	1.8	0.13	mg/kg dry	5	"	"	"	"	
Anthracene	5.2	1.8	0.14	mg/kg dry	5	"	"	"	"	
Benzo (a) anthracene	11	1.8	0.15	mg/kg dry	5	"	"	"	"	
Benzo (a) pyrene	11	1.8	0.15	mg/kg dry	5	"	"	"	"	
Benzo (b) fluoranthene	11	1.8	0.19	mg/kg dry	5	"	"	"	"	
Benzo (g,h,i) perylene	6.9	1.8	0.17	mg/kg dry	5	"	"	"	"	
Benzo (k) fluoranthene	4.7	1.8	0.17	mg/kg dry	5	"	"	"	"	
Chrysene	10	1.8	0.18	mg/kg dry	5	"	"	"	"	
Dibenz (a,h) anthracene	2.0	1.8	0.19	mg/kg dry	5	"	"	"	"	
Fluoranthene	20	1.8	0.13	mg/kg dry	5	"	"	"	"	
Fluorene	2.3	1.8	0.10	mg/kg dry	5	"	"	"	"	
Indeno (1,2,3-cd) pyrene	6.7	1.8	0.18	mg/kg dry	5	"	"	"	"	
Naphthalene	<1.8	1.8	0.16	mg/kg dry	5	"	"	"	"	
Phenanthrene	15	1.8	0.11	mg/kg dry	5	"	"	"	"	
Pyrene	17	1.8	0.13	mg/kg dry	5	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	75.4			46.3-96.2 %		"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-7 (5'-7') (1000766-09) Soil **Sampled: 03/01/10 00:00** **Received: 03/04/10 12:30**

Surrogate: Nitrobenzene-d5	76.5			49.3-94 %		BOC1009	03/10/10	03/11/10	EPA 8270C	
Surrogate: Terphenyl-d14	71.9			51.5-94.6 %		"	"	"	"	

SB-8 (1'-3') (1000766-10) Soil **Sampled: 03/01/10 00:00** **Received: 03/04/10 12:30**

2-Chloronaphthalene	<1.8	1.8	0.10	mg/kg dry	5	BOC1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<1.8	1.8	0.15	mg/kg dry	5	"	"	"	"	
Acenaphthene	3.1	1.8	0.15	mg/kg dry	5	"	"	"	"	
Acenaphthylene	<1.8	1.8	0.12	mg/kg dry	5	"	"	"	"	
Anthracene	4.6	1.8	0.14	mg/kg dry	5	"	"	"	"	
Benzo (a) anthracene	7.0	1.8	0.15	mg/kg dry	5	"	"	"	"	
Benzo (a) pyrene	11	1.8	0.15	mg/kg dry	5	"	"	"	"	
Benzo (b) fluoranthene	11	1.8	0.18	mg/kg dry	5	"	"	"	"	
Benzo (g,h,i) perylene	7.1	1.8	0.16	mg/kg dry	5	"	"	"	"	
Benzo (k) fluoranthene	4.6	1.8	0.17	mg/kg dry	5	"	"	"	"	
Chrysene	7.3	1.8	0.18	mg/kg dry	5	"	"	"	"	
Dibenz (a,h) anthracene	2.1	1.8	0.18	mg/kg dry	5	"	"	"	"	
Fluoranthene	13	1.8	0.13	mg/kg dry	5	"	"	"	"	
Fluorene	3.4	1.8	0.098	mg/kg dry	5	"	"	"	"	
Indeno (1,2,3-cd) pyrene	6.7	1.8	0.17	mg/kg dry	5	"	"	"	"	
Naphthalene	<1.8	1.8	0.16	mg/kg dry	5	"	"	"	"	
Phenanthrene	11	1.8	0.10	mg/kg dry	5	"	"	"	"	
Pyrene	13	1.8	0.12	mg/kg dry	5	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	59.8			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	61.8			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	55.3			51.5-94.6 %		"	"	"	"	

SB-8 (6.5'-8') (1000766-11) Soil **Sampled: 03/01/10 00:00** **Received: 03/04/10 12:30**

2-Chloronaphthalene	<0.46	0.46	0.027	mg/kg dry	1	BOC1009	03/10/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	<0.46	0.46	0.039	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.46	0.46	0.039	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.46	0.46	0.032	mg/kg dry	1	"	"	"	"	
Anthracene	<0.46	0.46	0.035	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.46	0.46	0.038	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.46	0.46	0.038	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.46	0.46	0.048	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.46	0.46	0.042	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.46	0.46	0.044	mg/kg dry	1	"	"	"	"	
Chrysene	<0.46	0.46	0.046	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.46	0.46	0.048	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.53	0.46	0.034	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-8 (6.5'-8') (1000766-11) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Fluorene	<0.46	0.46	0.025	mg/kg dry	1	BOC1009	03/10/10	03/12/10	EPA 8270C	
Indeno (1,2,3-cd) pyrene	<0.46	0.46	0.045	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.46	0.46	0.041	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.46	0.46	0.027	mg/kg dry	1	"	"	"	"	
Pyrene	<0.46	0.46	0.032	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	83.0		46.3-96.2	%		"	"	"	"	
Surrogate: Nitrobenzene-d5	78.0		49.3-94	%		"	"	"	"	
Surrogate: Terphenyl-d14	78.2		51.5-94.6	%		"	"	"	"	

SB-9 (1'-2') (1000766-12) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<14	14	0.81	mg/kg dry	40	BOC1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<14	14	1.2	mg/kg dry	40	"	"	"	"	
Acenaphthene	39	14	1.2	mg/kg dry	40	"	"	"	"	
Acenaphthylene	<14	14	0.98	mg/kg dry	40	"	"	"	"	
Anthracene	75	14	1.1	mg/kg dry	40	"	"	"	"	
Benzo (a) anthracene	74	14	1.1	mg/kg dry	40	"	"	"	"	
Benzo (a) pyrene	76	14	1.1	mg/kg dry	40	"	"	"	"	
Benzo (b) fluoranthene	79	14	1.4	mg/kg dry	40	"	"	"	"	
Benzo (g,h,i) perylene	40	14	1.3	mg/kg dry	40	"	"	"	"	
Benzo (k) fluoranthene	36	14	1.3	mg/kg dry	40	"	"	"	"	
Chrysene	68	14	1.4	mg/kg dry	40	"	"	"	"	
Dibenz (a,h) anthracene	<14	14	1.4	mg/kg dry	40	"	"	"	"	
Fluoranthene	190	14	1.0	mg/kg dry	40	"	"	"	"	
Fluorene	47	14	0.77	mg/kg dry	40	"	"	"	"	
Indeno (1,2,3-cd) pyrene	41	14	1.4	mg/kg dry	40	"	"	"	"	
Naphthalene	<14	14	1.2	mg/kg dry	40	"	"	"	"	
Phenanthrene	190	14	0.81	mg/kg dry	40	"	"	"	"	
Pyrene	140	14	0.98	mg/kg dry	40	"	"	"	"	
Surrogate: 2-Fluorobiphenyl			46.3-96.2	%		"	"	"	"	D-1
Surrogate: Nitrobenzene-d5			49.3-94	%		"	"	"	"	D-1
Surrogate: Terphenyl-d14			51.5-94.6	%		"	"	"	"	D-1

SB-10 (2'-3') (1000766-13) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<1.9	1.9	0.11	mg/kg dry	5	BOC1009	03/10/10	03/11/10	EPA 8270C	
2-Methylnaphthalene	<1.9	1.9	0.16	mg/kg dry	5	"	"	"	"	
Acenaphthene	2.0	1.9	0.16	mg/kg dry	5	"	"	"	"	
Acenaphthylene	<1.9	1.9	0.13	mg/kg dry	5	"	"	"	"	
Anthracene	7.8	1.9	0.14	mg/kg dry	5	"	"	"	"	
Benzo (a) anthracene	12	1.9	0.15	mg/kg dry	5	"	"	"	"	
Benzo (a) pyrene	13	1.9	0.15	mg/kg dry	5	"	"	"	"	
Benzo (b) fluoranthene	14	1.9	0.19	mg/kg dry	5	"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-10 (2'-3') (1000766-13) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Benzo (g,h,i) perylene	7.4	1.9	0.17	mg/kg dry	5	B0C1009	03/10/10	03/11/10	EPA 8270C	
Benzo (k) fluoranthene	5.9	1.9	0.18	mg/kg dry	5	"	"	"	"	
Chrysene	12	1.9	0.19	mg/kg dry	5	"	"	"	"	
Dibenz (a,h) anthracene	2.3	1.9	0.19	mg/kg dry	5	"	"	"	"	
Fluoranthene	27	1.9	0.14	mg/kg dry	5	"	"	"	"	
Fluorene	3.2	1.9	0.10	mg/kg dry	5	"	"	"	"	
Indeno (1,2,3-cd) pyrene	7.6	1.9	0.18	mg/kg dry	5	"	"	"	"	
Naphthalene	<1.9	1.9	0.16	mg/kg dry	5	"	"	"	"	
Phenanthrene	20	1.9	0.11	mg/kg dry	5	"	"	"	"	
Pyrene	21	1.9	0.13	mg/kg dry	5	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	71.9			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	70.3			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	66.8			51.5-94.6 %		"	"	"	"	

SB-11 (2.5'-4') (1000766-14) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.45	0.45	0.026	mg/kg dry	1	B0C1108	03/11/10	03/15/10	EPA 8270C	
2-Methylnaphthalene	<0.45	0.45	0.038	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.45	0.45	0.038	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.45	0.45	0.032	mg/kg dry	1	"	"	"	"	
Anthracene	<0.45	0.45	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	0.90	0.45	0.037	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	0.71	0.45	0.037	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	0.86	0.45	0.047	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	0.71	0.45	0.041	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.45	0.45	0.042	mg/kg dry	1	"	"	"	"	
Chrysene	0.92	0.45	0.045	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.45	0.45	0.047	mg/kg dry	1	"	"	"	"	
Fluoranthene	1.5	0.45	0.033	mg/kg dry	1	"	"	"	"	
Fluorene	<0.45	0.45	0.025	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.49	0.45	0.044	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.45	0.45	0.040	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.87	0.45	0.026	mg/kg dry	1	"	"	"	"	
Pyrene	1.2	0.45	0.032	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	86.5			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	79.6			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	84.5			51.5-94.6 %		"	"	"	"	

SB-12 (1'-2.5') (1000766-15) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.42	0.42	0.024	mg/kg dry	1	B0C1108	03/11/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	<0.42	0.42	0.036	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.42	0.42	0.036	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-12 (1'-2.5') (1000766-15) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
Acenaphthylene	<0.42	0.42	0.029	mg/kg dry	1	B0C1108	03/11/10	03/12/10	EPA 8270C	
Anthracene	<0.42	0.42	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.42	0.42	0.035	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.42	0.42	0.035	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.42	0.42	0.044	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.42	0.42	0.038	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.42	0.42	0.040	mg/kg dry	1	"	"	"	"	
Chrysene	<0.42	0.42	0.042	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.42	0.42	0.044	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.42	0.42	0.031	mg/kg dry	1	"	"	"	"	
Fluorene	<0.42	0.42	0.023	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.42	0.42	0.041	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.42	0.42	0.037	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.42	0.42	0.024	mg/kg dry	1	"	"	"	"	
Pyrene	<0.42	0.42	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	81.4		46.3-96.2 %			"	"	"	"	
Surrogate: Nitrobenzene-d5	66.9		49.3-94 %			"	"	"	"	
Surrogate: Terphenyl-d14	105		51.5-94.6 %			"	"	"	"	S-BN

SB-13 (1'-2.5') (1000766-16) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.38	0.38	0.022	mg/kg dry	1	B0C1108	03/11/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	0.38	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.38	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.38	0.38	0.026	mg/kg dry	1	"	"	"	"	
Anthracene	<0.38	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.38	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.38	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.38	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.38	0.38	0.034	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.38	0.38	0.036	mg/kg dry	1	"	"	"	"	
Chrysene	<0.38	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.38	0.38	0.039	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.53	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.38	0.38	0.021	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.38	0.38	0.037	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.38	0.38	0.033	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.59	0.38	0.022	mg/kg dry	1	"	"	"	"	
Pyrene	<0.38	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	79.6		46.3-96.2 %			"	"	"	"	
Surrogate: Nitrobenzene-d5	67.4		49.3-94 %			"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-13 (1'-2.5') (1000766-16) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Surrogate: Terphenyl-d14	67.0		51.5-94.6 %			B0C1108	03/11/10	03/12/10	EPA 8270C	
--------------------------	------	--	-------------	--	--	---------	----------	----------	-----------	--

SB-14 (2'-4') (1000766-17) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

2-Chloronaphthalene	<0.36	0.36	0.021	mg/kg dry	1	B0C1108	03/11/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	<0.36	0.36	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.36	0.36	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.36	0.36	0.025	mg/kg dry	1	"	"	"	"	
Anthracene	<0.36	0.36	0.027	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.36	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.36	0.36	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.36	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.36	0.36	0.033	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.36	0.36	0.034	mg/kg dry	1	"	"	"	"	
Chrysene	<0.36	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.36	0.36	0.037	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.36	0.36	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.36	0.36	0.020	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.36	0.36	0.035	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.36	0.36	0.032	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.36	0.36	0.021	mg/kg dry	1	"	"	"	"	
Pyrene	<0.36	0.36	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	65.1		46.3-96.2 %			"	"	"	"	
Surrogate: Nitrobenzene-d5	66.0		49.3-94 %			"	"	"	"	
Surrogate: Terphenyl-d14	67.2		51.5-94.6 %			"	"	"	"	

SB-15 (6'-8') (1000766-18) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

2-Chloronaphthalene	<0.37	0.37	0.021	mg/kg dry	1	B0C1108	03/11/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	<0.37	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.37	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.37	0.37	0.026	mg/kg dry	1	"	"	"	"	
Anthracene	<0.37	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	0.57	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	0.57	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	0.62	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	0.38	0.37	0.033	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.37	0.37	0.034	mg/kg dry	1	"	"	"	"	
Chrysene	0.55	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.37	0.37	0.038	mg/kg dry	1	"	"	"	"	
Fluoranthene	1.5	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.37	0.37	0.020	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-15 (6'-8') (1000766-18) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
Indeno (1,2,3-cd) pyrene	<0.37	0.37	0.036	mg/kg dry	1	BOC1108	03/11/10	03/12/10	EPA 8270C	
Naphthalene	<0.37	0.37	0.032	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.97	0.37	0.021	mg/kg dry	1	"	"	"	"	
Pyrene	0.76	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	83.7		46.3-96.2	%		"	"	"	"	
Surrogate: Nitrobenzene-d5	74.6		49.3-94	%		"	"	"	"	
Surrogate: Terphenyl-d14	62.3		51.5-94.6	%		"	"	"	"	

SB-16 (1'-3') (1000766-19) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.35	0.35	0.020	mg/kg dry	1	BOC1108	03/11/10	03/15/10	EPA 8270C	
2-Methylnaphthalene	<0.35	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.35	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.35	0.35	0.024	mg/kg dry	1	"	"	"	"	
Anthracene	<0.35	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.35	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.35	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.35	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.35	0.35	0.032	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	<0.35	0.35	0.033	mg/kg dry	1	"	"	"	"	
Chrysene	<0.35	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.35	0.35	0.036	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.41	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.35	0.35	0.019	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.35	0.35	0.034	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.35	0.35	0.031	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.35	0.35	0.020	mg/kg dry	1	"	"	"	"	
Pyrene	0.37	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	84.5		46.3-96.2	%		"	"	"	"	
Surrogate: Nitrobenzene-d5	82.2		49.3-94	%		"	"	"	"	
Surrogate: Terphenyl-d14	78.9		51.5-94.6	%		"	"	"	"	

SB-17 (1'-2.5') (1000766-20) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
2-Chloronaphthalene	<0.37	0.37	0.021	mg/kg dry	1	BOC1108	03/11/10	03/12/10	EPA 8270C	
2-Methylnaphthalene	<0.37	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.37	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.37	0.37	0.026	mg/kg dry	1	"	"	"	"	
Anthracene	<0.37	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.37	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.37	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.37	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.37	0.37	0.033	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	----	-----	-------	----------	-------	----------	----------	--------	-------

SB-17 (1'-2.5') (1000766-20) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

Benzo (k) fluoranthene	<0.37	0.37	0.034	mg/kg dry	1	B0C1108	03/11/10	03/12/10	EPA 8270C	
Chrysene	<0.37	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.37	0.37	0.038	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.37	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.37	0.37	0.020	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.37	0.37	0.036	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.37	0.37	0.032	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.37	0.37	0.021	mg/kg dry	1	"	"	"	"	
Pyrene	<0.37	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	79.7			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	63.6			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	92.2			51.5-94.6 %		"	"	"	"	

SB-19 (2'-4') (1000766-21) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

2-Chloronaphthalene	<0.35	0.35	0.020	mg/kg dry	1	B0C1108	03/11/10	03/15/10	EPA 8270C	
2-Methylnaphthalene	<0.35	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.35	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.35	0.35	0.025	mg/kg dry	1	"	"	"	"	
Anthracene	0.42	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	1.3	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	1.2	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	1.1	0.35	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	0.69	0.35	0.032	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	0.56	0.35	0.033	mg/kg dry	1	"	"	"	"	
Chrysene	1.2	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.35	0.35	0.037	mg/kg dry	1	"	"	"	"	
Fluoranthene	2.8	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.35	0.35	0.019	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.62	0.35	0.034	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.35	0.35	0.031	mg/kg dry	1	"	"	"	"	
Phenanthrene	1.4	0.35	0.020	mg/kg dry	1	"	"	"	"	
Pyrene	2.3	0.35	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	93.9			46.3-96.2 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	83.2			49.3-94 %		"	"	"	"	
Surrogate: Terphenyl-d14	81.5			51.5-94.6 %		"	"	"	"	

SB-20 (1'-2') (1000766-22) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30

2-Chloronaphthalene	<0.39	0.39	0.023	mg/kg dry	1	B0C1108	03/11/10	03/15/10	EPA 8270C	
2-Methylnaphthalene	<0.39	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.39	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.39	0.39	0.027	mg/kg dry	1	"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-20 (1'-2') (1000766-22) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
Anthracene	<0.39	0.39	0.030	mg/kg dry	1	B0C1108	03/11/10	03/15/10	EPA 8270C	
Benzo (a) anthracene	0.80	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	1.6	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	1.5	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	1.5	0.39	0.036	mg/kg dry	1	"	"	"	"	
Benzo (k) fluoranthene	0.55	0.39	0.037	mg/kg dry	1	"	"	"	"	
Chrysene	0.96	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.39	0.39	0.040	mg/kg dry	1	"	"	"	"	
Fluoranthene	1.0	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.39	0.39	0.021	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1.4	0.39	0.038	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.39	0.39	0.035	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.68	0.39	0.023	mg/kg dry	1	"	"	"	"	
Pyrene	0.89	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	80.5		46.3-96.2	%		"	"	"	"	
Surrogate: Nitrobenzene-d5	75.1		49.3-94	%		"	"	"	"	
Surrogate: Terphenyl-d14	72.6		51.5-94.6	%		"	"	"	"	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (1'-3') (1000766-01) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	84			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-2 (1'-3') (1000766-02) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	91			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-3 (1'-2.5') (1000766-03) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	91			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-3 (5'-6') (1000766-04) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	85			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-4 (0.5'-2') (1000766-05) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	93			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-4 (6'-8') (1000766-06) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	85			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-5 (2'-4') (1000766-07) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	90			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-6 (3'-4') (1000766-08) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	95			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-7 (5'-7') (1000766-09) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	90			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-8 (1'-3') (1000766-10) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	92			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-8 (6.5'-8') (1000766-11) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	71			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-9 (1'-2') (1000766-12) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	94			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-10 (2'-3') (1000766-13) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
% Solids	88			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-11 (2.5'-4') (1000766-14) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	73			%	1	B0C1619	03/16/10	03/17/10	% calculation	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-12 (1'-2.5') (1000766-15) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	78			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-13 (1'-2.5') (1000766-16) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	87			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-14 (2'-4') (1000766-17) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	91			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-15 (6'-8') (1000766-18) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	90			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-16 (1'-3') (1000766-19) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	94			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-17 (1'-2.5') (1000766-20) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	90			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-19 (2'-4') (1000766-21) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	93			%	1	B0C1619	03/16/10	03/17/10	% calculation	
SB-20 (1'-2') (1000766-22) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
% Solids	84			%	1	B0C1619	03/16/10	03/17/10	% calculation	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

TCLP METALS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (1'-3') (1000766-01) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Lead	0.18	0.015	0.0034	mg/L	1	B0C2410	03/24/10	03/24/10	EPA 1311/6010B	
Mercury	<0.0010	0.0010	0.00021	mg/L	1	B0C2411	03/24/10	03/24/10	EPA 1311/7470A	
SB-8 (6.5'-8') (1000766-11) Soil Sampled: 03/01/10 00:00 Received: 03/04/10 12:30										
Lead	0.21	0.015	0.0034	mg/L	1	B0C2410	03/24/10	03/24/10	EPA 1311/6010B	
SB-14 (2'-4') (1000766-17) Soil Sampled: 03/02/10 00:00 Received: 03/04/10 12:30										
Lead	0.12	0.015	0.0034	mg/L	1	B0C2410	03/24/10	03/24/10	EPA 1311/6010B	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
---------	--------	----	-----	-------	-------------	---------------	------	-------------	------	------------	-------

Batch B0C0804 - EPA 3050B

Blank (B0C0804-BLK1)

Prepared & Analyzed: 03/08/10

Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Barium	< 1.0	1.0	0.13	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							

LCS (B0C0804-BS1)

Prepared & Analyzed: 03/08/10

Arsenic	39.1	0.50	0.10	mg/kg wet	39.9		98.1	80-120			
Barium	40.9	1.0	0.13	mg/kg wet	39.9		103	80-120			
Cadmium	40.5	0.25	0.025	mg/kg wet	39.9		101	80-120			
Chromium	41.2	0.50	0.012	mg/kg wet	39.9		103	80-120			
Lead	41.7	1.0	0.034	mg/kg wet	39.9		105	80-120			
Selenium	39.2	1.0	0.11	mg/kg wet	39.9		98.1	80-120			
Silver	3.98	0.25	0.0090	mg/kg wet	3.99		99.8	80-120			

LCS Dup (B0C0804-BSD1)

Prepared & Analyzed: 03/08/10

Arsenic	39.6	0.50	0.10	mg/kg wet	39.9		99.2	80-120	1.12	20	
Barium	41.2	1.0	0.13	mg/kg wet	39.9		103	80-120	0.563	20	
Cadmium	40.7	0.25	0.025	mg/kg wet	39.9		102	80-120	0.534	20	
Chromium	41.4	0.50	0.012	mg/kg wet	39.9		104	80-120	0.492	20	
Lead	41.9	1.0	0.034	mg/kg wet	39.9		105	80-120	0.467	20	
Selenium	39.6	1.0	0.11	mg/kg wet	39.9		99.3	80-120	1.18	20	
Silver	4.01	0.25	0.0090	mg/kg wet	3.99		101	80-120	0.786	20	

Matrix Spike (B0C0804-MS1)

Source: 1000766-19

Prepared & Analyzed: 03/08/10

Arsenic	43.4	0.53	0.11	mg/kg dry	41.2	3.06	97.9	75-125			
Barium	77.2	1.1	0.14	mg/kg dry	41.2	39.0	92.6	75-125			
Cadmium	42.0	0.27	0.027	mg/kg dry	41.2	<0.27	101	75-125			
Chromium	49.5	0.53	0.013	mg/kg dry	41.2	9.77	96.3	75-125			
Lead	63.5	1.1	0.036	mg/kg dry	41.2	95.2	NR	75-125			M2
Selenium	40.4	1.1	0.12	mg/kg dry	41.2	<1.1	97.5	75-125			
Silver	4.24	0.27	0.0096	mg/kg dry	4.12	0.480	91.2	75-125			

Matrix Spike Dup (B0C0804-MSD1)

Source: 1000766-19

Prepared: 03/08/10 Analyzed: 03/09/10

Arsenic	42.9	0.53	0.11	mg/kg dry	41.1	3.06	96.8	75-125	1.24	20	
Barium	74.8	1.1	0.14	mg/kg dry	41.1	39.0	87.0	75-125	3.16	20	
Cadmium	41.8	0.27	0.027	mg/kg dry	41.1	<0.27	101	75-125	0.462	20	
Chromium	49.0	0.53	0.013	mg/kg dry	41.1	9.77	95.4	75-125	0.935	20	
Lead	68.3	1.1	0.036	mg/kg dry	41.1	95.2	NR	75-125	7.22	20	M2
Selenium	40.3	1.1	0.12	mg/kg dry	41.1	<1.1	97.5	75-125	0.182	20	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B0C0804 - EPA 3050B											
Matrix Spike Dup (B0C0804-MSD1)		Source: 1000766-19			Prepared: 03/08/10		Analyzed: 03/09/10				
Silver	4.19	0.27	0.0096	mg/kg dry	4.11	0.480	90.1	75-125	1.21	20	
Post Spike (B0C0804-PS1)											
Source: 1000766-19		Prepared: 03/08/10		Analyzed: 03/11/10							
Arsenic	0.876			mg/L	0.798	0.0592	102	85-115			
Barium	1.55			mg/L	0.798	0.755	99.4	85-115			
Cadmium	0.829			mg/L	0.798	0.00475	103	85-115			
Chromium	0.981			mg/L	0.798	0.189	99.2	85-115			
Lead	2.49			mg/L	0.798	1.84	80.4	85-115			A-01
Selenium	0.831			mg/L	0.798	0.00426	104	85-115			
Silver	0.0903			mg/L	0.0798	0.00930	102	85-115			
Batch B0C1014 - EPA 7471A											
Blank (B0C1014-BLK1)		Prepared: 03/10/10 Analyzed: 03/13/10									
Mercury	< 0.020	0.020	0.0042	mg/kg wet							
LCS (B0C1014-BS1)		Prepared: 03/10/10 Analyzed: 03/13/10									
Mercury	0.229	0.020	0.0042	mg/kg wet	0.200		114	80-120			
LCS Dup (B0C1014-BSD1)		Prepared: 03/10/10 Analyzed: 03/13/10									
Mercury	0.237	0.020	0.0042	mg/kg wet	0.200		118	80-120	3.43	20	
Matrix Spike (B0C1014-MS1)		Source: 1000746-01			Prepared: 03/10/10		Analyzed: 03/13/10				
Mercury	0.557	0.027	0.0058	mg/kg dry	0.269	0.423	49.7	75-125			M2
Matrix Spike Dup (B0C1014-MSD1)		Source: 1000746-01			Prepared: 03/10/10		Analyzed: 03/13/10				
Mercury	0.512	0.027	0.0058	mg/kg dry	0.273	0.423	32.6	75-125	8.33	20	M2

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B0C1015 - EPA 7471A											
Blank (B0C1015-BLK1)						Prepared: 03/11/10 Analyzed: 03/15/10					
Mercury	< 0.10	0.10	0.0042	mg/kg wet							
LCS (B0C1015-BS1)						Prepared: 03/11/10 Analyzed: 03/15/10					
Mercury	0.202	0.10	0.0042	mg/kg wet	0.200		101	80-120			
LCS Dup (B0C1015-BSD1)						Prepared: 03/11/10 Analyzed: 03/15/10					
Mercury	0.203	0.10	0.0042	mg/kg wet	0.200		102	80-120	0.494	20	
Matrix Spike (B0C1015-MS1)						Source: 1000766-19 Prepared: 03/11/10 Analyzed: 03/15/10					
Mercury	0.270	0.11	0.0045	mg/kg dry	0.207	<0.11	116	75-125			
Matrix Spike Dup (B0C1015-MSD1)						Source: 1000766-19 Prepared: 03/11/10 Analyzed: 03/15/10					
Mercury	0.266	0.11	0.0045	mg/kg dry	0.211	<0.11	111	75-125	1.78	20	
Batch B0C1017 - EPA 3050B											
Blank (B0C1017-BLK1)						Prepared: 03/10/10 Analyzed: 03/11/10					
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Barium	< 1.0	1.0	0.13	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
LCS (B0C1017-BS1)						Prepared: 03/10/10 Analyzed: 03/11/10					
Arsenic	41.0	0.50	0.10	mg/kg wet	39.9		103	80-120			
Barium	41.1	1.0	0.13	mg/kg wet	39.9		103	80-120			
Cadmium	40.9	0.25	0.025	mg/kg wet	39.9		103	80-120			
Chromium	41.7	0.50	0.012	mg/kg wet	39.9		105	80-120			
Lead	41.8	1.0	0.034	mg/kg wet	39.9		105	80-120			
Selenium	41.4	1.0	0.11	mg/kg wet	39.9		104	80-120			
Silver	3.99	0.25	0.0090	mg/kg wet	3.99		100	80-120			
LCS Dup (B0C1017-BSD1)						Prepared: 03/10/10 Analyzed: 03/11/10					
Arsenic	39.9	0.50	0.10	mg/kg wet	39.9		100	80-120	2.69	20	
Barium	40.3	1.0	0.13	mg/kg wet	39.9		101	80-120	1.97	20	
Cadmium	40.1	0.25	0.025	mg/kg wet	39.9		101	80-120	1.96	20	
Chromium	40.8	0.50	0.012	mg/kg wet	39.9		102	80-120	2.07	20	
Lead	41.1	1.0	0.034	mg/kg wet	39.9		103	80-120	1.68	20	
Selenium	40.2	1.0	0.11	mg/kg wet	39.9		101	80-120	3.05	20	
Silver	3.90	0.25	0.0090	mg/kg wet	3.99		97.8	80-120	2.19	20	

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B0C1017 - EPA 3050B											
Matrix Spike (B0C1017-MS1)		Source: 1000821-10			Prepared: 03/10/10		Analyzed: 03/11/10				
Arsenic	44.2	0.52	0.10	mg/kg dry	40.5	1.67	105	75-125			
Barium	68.7	1.0	0.13	mg/kg dry	40.5	17.1	127	75-125			M1
Cadmium	42.7	0.26	0.026	mg/kg dry	40.5	<0.26	105	75-125			
Chromium	45.3	0.52	0.012	mg/kg dry	40.5	4.47	101	75-125			
Lead	41.5	1.0	0.035	mg/kg dry	40.5	1.97	97.5	75-125			
Selenium	42.7	1.0	0.11	mg/kg dry	40.5	<1.0	105	75-125			
Silver	4.17	0.26	0.0093	mg/kg dry	4.05	<0.26	103	75-125			
Matrix Spike Dup (B0C1017-MSD1)		Source: 1000821-10			Prepared: 03/10/10		Analyzed: 03/11/10				
Arsenic	45.6	0.52	0.10	mg/kg dry	40.1	1.67	110	75-125	3.14	20	
Barium	60.9	1.0	0.13	mg/kg dry	40.1	17.1	109	75-125	12.0	20	
Cadmium	42.6	0.26	0.026	mg/kg dry	40.1	<0.26	106	75-125	0.300	20	
Chromium	46.4	0.52	0.012	mg/kg dry	40.1	4.47	105	75-125	2.37	20	
Lead	41.1	1.0	0.035	mg/kg dry	40.1	1.97	97.7	75-125	0.866	20	
Selenium	42.7	1.0	0.11	mg/kg dry	40.1	<1.0	106	75-125	0.0760	20	
Silver	4.15	0.26	0.0093	mg/kg dry	4.01	<0.26	104	75-125	0.382	20	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
---------	--------	----	-----	-------	-------------	---------------	------	-------------	------	------------	-------

Batch B0C1009 - EPA 3545 ASE Extraction

Blank (B0C1009-BLK1)

Prepared & Analyzed: 03/10/10

2-Chloronaphthalene	< 0.33	0.33	0.019	mg/kg wet							
2-Methylnaphthalene	< 0.33	0.33	0.028	mg/kg wet							
Acenaphthene	< 0.33	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.33	0.33	0.023	mg/kg wet							
Anthracene	< 0.33	0.33	0.025	mg/kg wet							
Benzo (a) anthracene	< 0.33	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.33	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.33	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.33	0.33	0.030	mg/kg wet							
Benzo (k) fluoranthene	< 0.33	0.33	0.031	mg/kg wet							
Chrysene	< 0.33	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.33	0.33	0.034	mg/kg wet							
Fluoranthene	< 0.33	0.33	0.024	mg/kg wet							
Fluorene	< 0.33	0.33	0.018	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.33	0.33	0.032	mg/kg wet							
Naphthalene	< 0.33	0.33	0.029	mg/kg wet							
Phenanthrene	< 0.33	0.33	0.019	mg/kg wet							
Pyrene	< 0.33	0.33	0.023	mg/kg wet							
Surrogate: 2-Fluorobiphenyl	3.77			mg/kg wet	6.67		56.5	46.3-96.2			
Surrogate: Nitrobenzene-d5	3.75			mg/kg wet	6.67		56.2	49.3-94			
Surrogate: Terphenyl-d14	4.05			mg/kg wet	6.67		60.7	51.5-94.6			

LCS (B0C1009-BS1)

Prepared: 03/10/10 Analyzed: 03/11/10

Acenaphthylene	4.81	0.33	0.023	mg/kg wet	6.67		72.2	65.9-87.2			
Anthracene	5.02	0.33	0.025	mg/kg wet	6.67		75.2	69.2-89			
Benzo (a) anthracene	4.99	0.33	0.027	mg/kg wet	6.67		74.9	64.7-93.3			
Benzo (a) pyrene	5.12	0.33	0.027	mg/kg wet	6.67		76.8	65.7-93.1			
Benzo (b) fluoranthene	4.67	0.33	0.034	mg/kg wet	6.67		70.0	63.7-96.3			
Benzo (g,h,i) perylene	5.30	0.33	0.030	mg/kg wet	6.67		79.5	61.2-98.3			
Benzo (k) fluoranthene	4.98	0.33	0.031	mg/kg wet	6.67		74.6	64.7-94.6			
Chrysene	4.92	0.33	0.033	mg/kg wet	6.67		73.8	62.7-92.8			
Dibenz (a,h) anthracene	5.49	0.33	0.034	mg/kg wet	6.67		82.3	62.2-95.7			
Fluoranthene	5.16	0.33	0.024	mg/kg wet	6.67		77.3	67.6-92.3			
Fluorene	4.95	0.33	0.018	mg/kg wet	6.67		74.2	65.9-86.4			
Indeno (1,2,3-cd) pyrene	5.90	0.33	0.032	mg/kg wet	6.67		88.5	63.5-100			
Naphthalene	4.79	0.33	0.029	mg/kg wet	6.67		71.9	61.9-84.6			
Phenanthrene	4.90	0.33	0.019	mg/kg wet	6.67		73.5	69-89.1			
Surrogate: 2-Fluorobiphenyl	4.58			mg/kg wet	6.67		68.7	46.3-96.2			
Surrogate: Nitrobenzene-d5	4.62			mg/kg wet	6.67		69.2	49.3-94			
Surrogate: Terphenyl-d14	4.54			mg/kg wet	6.67		68.1	51.5-94.6			

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
---------	--------	----	-----	-------	-------------	---------------	------	-------------	------	------------	-------

Batch B0C1009 - EPA 3545 ASE Extraction

Matrix Spike (B0C1009-MS1)

Source: 1000740-25

Prepared & Analyzed: 03/10/10

Acenaphthylene	5.51	0.35	0.024	mg/kg dry	7.02	<0.35	78.5	50.6-95.9			
Anthracene	5.70	0.35	0.026	mg/kg dry	7.02	<0.35	81.2	58.9-96.5			
Benzo (a) anthracene	5.65	0.35	0.028	mg/kg dry	7.02	<0.35	80.5	53.5-98.7			
Benzo (a) pyrene	5.47	0.35	0.028	mg/kg dry	7.02	<0.35	77.9	53.2-97.5			
Benzo (b) fluoranthene	4.96	0.35	0.036	mg/kg dry	7.02	<0.35	70.7	50.3-98.2			
Benzo (g,h,i) perylene	5.80	0.35	0.032	mg/kg dry	7.02	<0.35	82.7	44.6-103			
Benzo (k) fluoranthene	5.50	0.35	0.033	mg/kg dry	7.02	<0.35	78.4	52.4-99.2			
Chrysene	5.57	0.35	0.035	mg/kg dry	7.02	<0.35	79.4	51.9-98.6			
Dibenz (a,h) anthracene	5.84	0.35	0.036	mg/kg dry	7.02	<0.35	83.2	45.4-104			
Fluoranthene	6.00	0.35	0.025	mg/kg dry	7.02	<0.35	85.5	54.3-97.7			
Fluorene	5.60	0.35	0.019	mg/kg dry	7.02	<0.35	79.9	54.4-93.2			
Indeno (1,2,3-cd) pyrene	6.31	0.35	0.034	mg/kg dry	7.02	<0.35	89.9	45-106			
Naphthalene	5.39	0.35	0.031	mg/kg dry	7.02	<0.35	76.8	48.6-90.1			
Phenanthrene	5.70	0.35	0.020	mg/kg dry	7.02	<0.35	81.3	58.8-93.7			
Surrogate: 2-Fluorobiphenyl	5.22			mg/kg dry	7.02		74.5	46.3-96.2			
Surrogate: Nitrobenzene-d5	5.10			mg/kg dry	7.02		72.7	49.3-94			
Surrogate: Terphenyl-d14	5.12			mg/kg dry	7.02		72.9	51.5-94.6			

Matrix Spike Dup (B0C1009-MSD1)

Source: 1000740-25

Prepared & Analyzed: 03/10/10

Acenaphthylene	5.51	0.35	0.024	mg/kg dry	7.02	<0.35	78.6	50.6-95.9	0.134	16.5	
Anthracene	5.64	0.35	0.026	mg/kg dry	7.02	<0.35	80.3	58.9-96.5	1.08	14	
Benzo (a) anthracene	5.60	0.35	0.028	mg/kg dry	7.02	<0.35	79.8	53.5-98.7	0.881	15.6	
Benzo (a) pyrene	5.50	0.35	0.028	mg/kg dry	7.02	<0.35	78.4	53.2-97.5	0.615	14.3	
Benzo (b) fluoranthene	4.91	0.35	0.036	mg/kg dry	7.02	<0.35	70.0	50.3-98.2	1.05	17.5	
Benzo (g,h,i) perylene	5.81	0.35	0.032	mg/kg dry	7.02	<0.35	82.8	44.6-103	0.0630	15	
Benzo (k) fluoranthene	5.59	0.35	0.033	mg/kg dry	7.02	<0.35	79.6	52.4-99.2	1.49	15.3	
Chrysene	5.56	0.35	0.035	mg/kg dry	7.02	<0.35	79.3	51.9-98.6	0.226	14.8	
Dibenz (a,h) anthracene	5.94	0.35	0.036	mg/kg dry	7.02	<0.35	84.6	45.4-104	1.66	16.5	
Fluoranthene	5.71	0.35	0.025	mg/kg dry	7.02	<0.35	81.4	54.3-97.7	4.93	19.1	
Fluorene	5.53	0.35	0.019	mg/kg dry	7.02	<0.35	78.8	54.4-93.2	1.32	18.5	
Indeno (1,2,3-cd) pyrene	6.30	0.35	0.034	mg/kg dry	7.02	<0.35	89.8	45-106	0.0836	17.7	
Naphthalene	5.29	0.35	0.031	mg/kg dry	7.02	<0.35	75.3	48.6-90.1	1.96	15.9	
Phenanthrene	5.56	0.35	0.020	mg/kg dry	7.02	<0.35	79.2	58.8-93.7	2.61	25.3	
Surrogate: 2-Fluorobiphenyl	5.09			mg/kg dry	7.02		72.6	46.3-96.2			
Surrogate: Nitrobenzene-d5	5.06			mg/kg dry	7.02		72.1	49.3-94			
Surrogate: Terphenyl-d14	5.09			mg/kg dry	7.02		72.5	51.5-94.6			

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PAH 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
---------	--------	----	-----	-------	-------------	---------------	------	-------------	------	------------	-------

Batch B0C1108 - EPA 3545 ASE Extraction

Blank (B0C1108-BLK1)

Prepared: 03/11/10 Analyzed: 03/12/10

2-Chloronaphthalene	< 0.33	0.33	0.019	mg/kg wet							
2-Methylnaphthalene	< 0.33	0.33	0.028	mg/kg wet							
Acenaphthene	< 0.33	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.33	0.33	0.023	mg/kg wet							
Anthracene	< 0.33	0.33	0.025	mg/kg wet							
Benzo (a) anthracene	< 0.33	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.33	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.33	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.33	0.33	0.030	mg/kg wet							
Benzo (k) fluoranthene	< 0.33	0.33	0.031	mg/kg wet							
Chrysene	< 0.33	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.33	0.33	0.034	mg/kg wet							
Fluoranthene	< 0.33	0.33	0.024	mg/kg wet							
Fluorene	< 0.33	0.33	0.018	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.33	0.33	0.032	mg/kg wet							
Naphthalene	< 0.33	0.33	0.029	mg/kg wet							
Phenanthrene	< 0.33	0.33	0.019	mg/kg wet							
Pyrene	< 0.33	0.33	0.023	mg/kg wet							
Surrogate: 2-Fluorobiphenyl	4.54			mg/kg wet	6.67		68.1	46.3-96.2			
Surrogate: Nitrobenzene-d5	4.48			mg/kg wet	6.67		67.1	49.3-94			
Surrogate: Terphenyl-d14	4.40			mg/kg wet	6.67		66.0	51.5-94.6			

LCS (B0C1108-BS1)

Prepared: 03/11/10 Analyzed: 03/12/10

Acenaphthylene	5.00	0.33	0.023	mg/kg wet	6.67		75.0	65.9-87.2			
Anthracene	5.08	0.33	0.025	mg/kg wet	6.67		76.2	69.2-89			
Benzo (a) anthracene	5.45	0.33	0.027	mg/kg wet	6.67		81.8	64.7-93.3			
Benzo (a) pyrene	5.39	0.33	0.027	mg/kg wet	6.67		80.8	65.7-93.1			
Benzo (b) fluoranthene	5.43	0.33	0.034	mg/kg wet	6.67		81.4	63.7-96.3			
Benzo (g,h,i) perylene	5.60	0.33	0.030	mg/kg wet	6.67		84.0	61.2-98.3			
Benzo (k) fluoranthene	5.26	0.33	0.031	mg/kg wet	6.67		79.0	64.7-94.6			
Chrysene	5.32	0.33	0.033	mg/kg wet	6.67		79.9	62.7-92.8			
Dibenz (a,h) anthracene	5.52	0.33	0.034	mg/kg wet	6.67		82.8	62.2-95.7			
Fluoranthene	5.32	0.33	0.024	mg/kg wet	6.67		79.8	67.6-92.3			
Fluorene	4.98	0.33	0.018	mg/kg wet	6.67		74.7	65.9-86.4			
Indeno (1,2,3-cd) pyrene	5.57	0.33	0.032	mg/kg wet	6.67		83.5	63.5-100			
Naphthalene	4.79	0.33	0.029	mg/kg wet	6.67		71.9	61.9-84.6			
Phenanthrene	5.06	0.33	0.019	mg/kg wet	6.67		75.8	69-89.1			
Surrogate: 2-Fluorobiphenyl	4.71			mg/kg wet	6.67		70.6	46.3-96.2			
Surrogate: Nitrobenzene-d5	4.79			mg/kg wet	6.67		71.9	49.3-94			
Surrogate: Terphenyl-d14	4.81			mg/kg wet	6.67		72.2	51.5-94.6			

RJ Rykken Consulting
 3330 Fremont Circle NW
 Prior Lake, MN 55372

Project: MPLS Parks Scherer
 Project Number: 10-03
 Project Manager: Mr. Robert Rykken

Work Order #: 1000766
 Date Reported: 04/01/10

PAH 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
---------	--------	----	-----	-------	-------------	---------------	------	-------------	------	------------	-------

Batch B0C1108 - EPA 3545 ASE Extraction

Matrix Spike (B0C1108-MS1)

Source: 1000830-10

Prepared: 03/11/10 Analyzed: 03/12/10

Acenaphthylene	5.28	0.35	0.024	mg/kg dry	7.06	<0.35	74.8	50.6-95.9			
Anthracene	5.49	0.35	0.026	mg/kg dry	7.06	<0.35	77.8	58.9-96.5			
Benzo (a) anthracene	6.03	0.35	0.028	mg/kg dry	7.06	<0.35	85.4	53.5-98.7			
Benzo (a) pyrene	5.96	0.35	0.028	mg/kg dry	7.06	<0.35	84.5	53.2-97.5			
Benzo (b) fluoranthene	5.83	0.35	0.036	mg/kg dry	7.06	<0.35	82.6	50.3-98.2			
Benzo (g,h,i) perylene	5.98	0.35	0.032	mg/kg dry	7.06	<0.35	84.7	44.6-103			
Benzo (k) fluoranthene	5.80	0.35	0.033	mg/kg dry	7.06	<0.35	82.1	52.4-99.2			
Chrysene	5.84	0.35	0.035	mg/kg dry	7.06	<0.35	82.7	51.9-98.6			
Dibenz (a,h) anthracene	5.96	0.35	0.036	mg/kg dry	7.06	<0.35	84.5	45.4-104			
Fluoranthene	5.73	0.35	0.025	mg/kg dry	7.06	<0.35	81.1	54.3-97.7			
Fluorene	5.24	0.35	0.019	mg/kg dry	7.06	<0.35	74.2	54.4-93.2			
Indeno (1,2,3-cd) pyrene	6.11	0.35	0.034	mg/kg dry	7.06	<0.35	86.5	45-106			
Naphthalene	5.00	0.35	0.031	mg/kg dry	7.06	<0.35	70.8	48.6-90.1			
Phenanthrene	5.45	0.35	0.020	mg/kg dry	7.06	<0.35	77.2	58.8-93.7			
Surrogate: 2-Fluorobiphenyl	4.95			mg/kg dry	7.06		70.1	46.3-96.2			
Surrogate: Nitrobenzene-d5	5.00			mg/kg dry	7.06		70.8	49.3-94			
Surrogate: Terphenyl-d14	5.45			mg/kg dry	7.06		77.2	51.5-94.6			

Matrix Spike Dup (B0C1108-MSD1)

Source: 1000830-10

Prepared: 03/11/10 Analyzed: 03/12/10

Acenaphthylene	4.89	0.35	0.024	mg/kg dry	7.06	<0.35	69.3	50.6-95.9	7.69	16.5	
Anthracene	5.20	0.35	0.026	mg/kg dry	7.06	<0.35	73.7	58.9-96.5	5.49	14	
Benzo (a) anthracene	5.67	0.35	0.028	mg/kg dry	7.06	<0.35	80.4	53.5-98.7	6.07	15.6	
Benzo (a) pyrene	5.61	0.35	0.028	mg/kg dry	7.06	<0.35	79.5	53.2-97.5	6.09	14.3	
Benzo (b) fluoranthene	5.55	0.35	0.036	mg/kg dry	7.06	<0.35	78.6	50.3-98.2	4.98	17.5	
Benzo (g,h,i) perylene	5.73	0.35	0.032	mg/kg dry	7.06	<0.35	81.2	44.6-103	4.24	15	
Benzo (k) fluoranthene	5.38	0.35	0.033	mg/kg dry	7.06	<0.35	76.3	52.4-99.2	7.45	15.3	
Chrysene	5.49	0.35	0.035	mg/kg dry	7.06	<0.35	77.8	51.9-98.6	6.18	14.8	
Dibenz (a,h) anthracene	5.72	0.35	0.036	mg/kg dry	7.06	<0.35	81.1	45.4-104	4.19	16.5	
Fluoranthene	5.47	0.35	0.025	mg/kg dry	7.06	<0.35	77.5	54.3-97.7	4.61	19.1	
Fluorene	4.81	0.35	0.019	mg/kg dry	7.06	<0.35	68.2	54.4-93.2	8.45	18.5	
Indeno (1,2,3-cd) pyrene	5.81	0.35	0.034	mg/kg dry	7.06	<0.35	82.3	45-106	5.01	17.7	
Naphthalene	4.53	0.35	0.031	mg/kg dry	7.06	<0.35	64.3	48.6-90.1	9.71	15.9	
Phenanthrene	5.07	0.35	0.020	mg/kg dry	7.06	<0.35	71.9	58.8-93.7	7.11	25.3	
Surrogate: 2-Fluorobiphenyl	4.55			mg/kg dry	7.06		64.5	46.3-96.2			
Surrogate: Nitrobenzene-d5	4.54			mg/kg dry	7.06		64.4	49.3-94			
Surrogate: Terphenyl-d14	5.03			mg/kg dry	7.06		71.3	51.5-94.6			

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B0C1619 - General Preparation											
Duplicate (B0C1619-DUP1)		Source: 1000766-10		Prepared: 03/16/10 Analyzed: 03/17/10							
% Solids	91.0			%		92.0			1.09	20	
Duplicate (B0C1619-DUP2)		Source: 1000766-20		Prepared: 03/16/10 Analyzed: 03/17/10							
% Solids	90.0			%		90.0			0.00	20	
Duplicate (B0C1619-DUP3)		Source: 1000830-11		Prepared: 03/16/10 Analyzed: 03/17/10							
% Solids	96.0			%		96.0			0.00	20	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

TCLP METALS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B0C2410 - EPA 200.7/3005A Digestion											
Blank (B0C2410-BLK1) Prepared & Analyzed: 03/24/10											
Lead	< 0.015	0.015	0.0034	mg/L							
LCS (B0C2410-BS1) Prepared & Analyzed: 03/24/10											
Lead	4.00	0.015	0.0034	mg/L	3.99		100	80-120			
LCS Dup (B0C2410-BSD1) Prepared & Analyzed: 03/24/10											
Lead	4.01	0.015	0.0034	mg/L	3.99		101	80-120	0.356	20	
Matrix Spike (B0C2410-MS1) Source: 1000951-01 Prepared & Analyzed: 03/24/10											
Lead	4.04	0.015	0.0034	mg/L	3.99	<0.015	101	75-125			
Matrix Spike Dup (B0C2410-MSD1) Source: 1000951-01 Prepared & Analyzed: 03/24/10											
Lead	3.94	0.015	0.0034	mg/L	3.99	<0.015	98.5	75-125	2.56	20	
Batch B0C2411 - EPA 245.1/7470A Digestion											
Blank (B0C2411-BLK1) Prepared & Analyzed: 03/24/10											
Mercury	< 0.0010	0.0010	0.00021	mg/L							
LCS (B0C2411-BS1) Prepared & Analyzed: 03/24/10											
Mercury	0.0112	0.0010	0.00021	mg/L	0.0100		112	80-120			
LCS Dup (B0C2411-BSD1) Prepared & Analyzed: 03/24/10											
Mercury	0.0112	0.0010	0.00021	mg/L	0.0100		112	80-120	0.893	20	
Matrix Spike (B0C2411-MS1) Source: 1000766-01 Prepared & Analyzed: 03/24/10											
Mercury	0.0109	0.0010	0.00021	mg/L	0.0100	<0.0010	109	75-125			
Matrix Spike Dup (B0C2411-MSD1) Source: 1000766-01 Prepared & Analyzed: 03/24/10											
Mercury	0.0106	0.0010	0.00021	mg/L	0.0100	<0.0010	106	75-125	3.26	20	

RJ Rykken Consulting 3330 Fremont Circle NW Prior Lake, MN 55372	Project: MPLS Parks Scherer Project Number: 10-03 Project Manager: Mr. Robert Rykken	Work Order #: 1000766 Date Reported: 04/01/10
--	--	--

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
D-1	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
A-01	A post-spike was performed with a recovery of 80%; control limits are 85-115%
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

Page 1 of 3
LEGEND TECHNICAL SERVICES, INC.
88 Empire Drive, St. Paul, MN 55103 - Telephone: 651-642-1150, Fax: 651-642-1239
CHAIN-OF-CUSTODY RECORD

Client Name: R.J. Rykken Consulting, Inc. Address: 3330 Fremont Cir Prior Lake MN 55372 Attn: Bob Rykken Phone: 952-447-6505 Project Name: MPLS Parks - Schefer Project #: 10-03		Bill To: SAME Address: PO #: Fax:		LEGEND Project #: Turnaround Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> RUSH Requested Due Date: Condition Received: <input type="checkbox"/> Received at _____ °C <input checked="" type="checkbox"/> Received on ice <input type="checkbox"/> No temp. blank <input type="checkbox"/> Received on ice pack <input type="checkbox"/> Received on melt water <input type="checkbox"/> Received ambient <input type="checkbox"/> Acceptable (H/ISO only) <input type="checkbox"/> Custody Status		Analysis PAHs PCPA Metals	
Number of Containers		Collection Date Time		Sample Matrix Lab ID No.		Date Time	
Item No.	Field ID	Sample Description	Collection Date	Collection Time	Sample Matrix	Lab ID No.	Analysis
1		SB-1 (1'-3')	3-1-10		S	01	X
2		SB-2 (1'-3')			S	02	X
3		SB-3 (1'-2.5')			S	03	X
4		SB-3 (5'-6')			S	04	X
5		SB-4 (0.5'-2')			S	05	X
6		SB-4 (6'-8')			S	06	X
7		SB-5 (2'-4')			S	07	X
8		SB-6 (3'-4')			S	08	X
9		SB-7 (5'-7')			S	09	X
10		SB-8 (1'-3')			S	10	X
Sample Collector (Signature):		Item No.	Relinquished By:	Date:	Time:	Accepted By:	Date:
Bob Rykken			BRyl	3-4-10	12:30	RD	3-4-10
Comments:		Item No.	Relinquished By:	Date:	Time:	Received By Lab:	Date:

PLEASE REVIEW TERMS AND CONDITIONS ON BACK BEFORE SIGNING
White Copy - Original Accompanies Shipment to Lab Yellow Copy - Lab Pink Copy - Customer or Field Copy
7.46

Form LAB-205 (04/07)

Page 2 of 3
LEGEND TECHNICAL SERVICES, INC.
 88 Empire Drive, St. Paul, MN 55103 - Telephone: 651-642-1150, Fax: 651-642-1239
CHAIN-OF-CUSTODY RECORD

Client Name: R.S. Rykken Consulting, Inc.		Bill To:		LEGEND Project #:		Analysis	
Address:		Address:		Turnaround Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> RUSH		Number of Containers	
Attn: Bob Rykken		PO #:		Requested Due Date:		PAMS RCRA Metals	
Phone: 952-447-6505		Fax:		Condition Received: Received at: 7.4 °C Received on ice No temp. blank Received on ice pack Received on melt water Received ambient Acceptable (HPLSO only) Custody Seals			
Project Name: MPLS Parks-Schreier Project # 10-03							
Item No.	Field ID	Sample Description	g	g	Collection Date	Sample Matrix	Lab ID No.
1		SB-8 (1'-3') (6.5'-8') 3/4/10	X		3-1-10	S	11
2		SB-9 (1'-2')	X			S	12
3		SB-10 (2'-3')	X		V	S	13
4		SB-11 (2.5'-4')	X		3-2-10	S	14
5		SB-12 (1'-2.5')	X			S	15
6		SB-13 (1'-2.5')	X			S	16
7		SB-14 (2'-4')	X			S	17
8		SB-15 (6'-8')	X			S	18
9		SB-16 (1'-3')	X			S	19
10		SB-17 (1'-2.5')	X		V	S	20
Sample Collector (please print): Bob Rykken		Item No.	Relinquished By:	Date:	Time:	Accepted By:	Date:
Comments:			BR	3-4-10	12:30	RB	3/4/10
		Item No.	Relinquished By:	Date:	Time:	Received By Lab:	Date:

Form LAB-258 (06/07) * 10
 7.4 * 3/4/10
PLEASE REVIEW TERMS AND CONDITIONS ON BACK BEFORE SIGNING
 White Copy - Original Accompanies Shipment to Lab Yellow Copy - Lab Pink Copy - Customer or Field Copy

LEGEND TECHNICAL SERVICES, INC.
 88 Empire Drive, St Paul, MN 55103 - Telephone: 651-642-1150, Fax: 651-642-1239
CHAIN-OF-CUSTODY RECORD

Page 3 of 3

Client Name: R.S. RYKKEK CONSULTING, INC Address:		Bill To: Address:		Legend Project #: Turnaround Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> RUSH Requested Due Date:		Number of Containers:		Analysis:	
PO #: Bob Rykken		Phone: 952-447-6505 Fax:		Condition Received: <input type="checkbox"/> Received at _____ °C <input checked="" type="checkbox"/> Received on ice <input type="checkbox"/> No temp. blank <input type="checkbox"/> Received on ice pack <input type="checkbox"/> Received on melt water <input type="checkbox"/> Received ambient <input type="checkbox"/> Acceptable (HISO only) <input type="checkbox"/> Custody Seals		Date: 3-2-10 Time: 3:21 Sample Matrix: S Lab ID No.: 21		Date: 3-4-10 Time: 12:30 Accepted By: ARF	
Project Name: MILS Parks Schwefel Project #: 10-03		Item No. Field ID Sample Description		Date: 3-2-10 Time: 3:21 Sample Matrix: S Lab ID No.: 22		Date: 3-4-10 Time: 12:30 Accepted By: ARF		Date: 3-4-10 Time: 12:30 Received By Lab:	
1		X	SB-19 (2'-4')	X				X	DHS
2		X	SB-20 (1'-2')	X				X	RARA Metals
3									
4									
5									
6									
7									
8									
9									
10									
Sample Collector (please print): Bob Rykken		Item No. Reinspected By:		Date: 3-4-10 Time: 12:30		Date: 3-4-10 Time: 12:30		Date: 3-4-10 Time: 12:30	
Comments:		Item No. Reinspected By:		Date:		Date:		Date:	

7.5°C

PLEASE REVIEW TERMS AND CONDITIONS ON BACK BEFORE SIGNING
 White Copy - Original Accompanies Shipment to Lab Yellow Copy - Lab Pink Copy - Customer or Field Copy

Form LAD-208 (08/07)