

**Sunset Pond, Brookfield Site # 93-1507**

*Keep these  
docs. together &  
in order*

**STATUS:**

consultant - SMS lead  
billing - ECS  
RP - none at this time

Complaint received 11/93 of sheens resulting after bottom sediments disturbed. 6/94 pond sampled by SMS, sediment and water. Sediment samples screened by lab immunoassay with positives analyzed by EPA 8270 for SVOCs. 19 sediment samples collected, 8 were positive by IA. Positives were high in PAHs up to 789 ppm total PAH. Most had about 20 different PAHs some carcinogenic. PAHs found adjacent to floating bridge and were not detected away from bridge.

PAHs believed to be attributable to the tar coated barrels used for bridge floatation. Barrels were used for approximately 90 years. 3000 to 4000 barrels may have been used over this time span (my estimate based on 380 barrels with a 10% replacement rate for 90 years).

One water sample collected and analyzed by 8240- neg for VOCs or TPH.

Additional sampling may be warranted to evaluate ingestion pathway and direct contact risk. Comparable data from Pine St. resulted in EPA position papers indicating human health risk from fish consumption is unlikely.

BH/bh

M E M O R A N D U M

TO: File # 93-1507, Sunset Pond - Brookfield  
THROUGH: Tim Cropley, Assistant Hazardous Materials Specialist *TC*  
FROM: Bob Haslam, Assistant Hazardous Materials Specialist *RH*  
DATE: 6/17/94  
RE: Trip Report

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On 6/16/94 Tim Cropley and I went to Sunset Pond to collect sediment samples in effort to define the degree and extent of the PAH's that had been previously identified in these sediments. We hypothesize that the contaminants are attributable to materials used in construction of the floating bridge. To confirm this hypothesis, sampling locations were based on a preestablished grid which focused on the sediments immediately below the bridge and extended outward on both sides.

All samples were collected using a Ponar sediment dredge which was lowered by hand to the bottom and then released. Samples were obtained directly from the dredge using a stainless steel trowel and placed into 500 ml amber jars with teflon lids. The trowel and dredge were rinsed in an alconox solution between samples. Samples were then placed in a cooler with ice.

19 samples were collected. These will be analyzed by immunoassay for total PAH. All samples with positive immunoassay will also be analyzed by Method 8270 for SVOCs.

Every sample collected adjacent to the bridge exhibited varying but limited degrees of non-cohesive sheening on the surface of the sediments. Only one sample (NA1) collected at a location not adjacent to the bridge exhibited any sheen on it's surface. Only one sample (S11) exhibited a noticeable petroleum odor.

The disturbance to the pond bottom from the impact and closing of the dredge resulted in varying amounts of cohesive sheening appearing on the surface of the water. This occurred at every sample location adjacent to the bridge. At some locations this sheening was heavy and slow to dissipate. At several locations what appeared to be semi-solid particles of free phase appeared at the surface.

All samples were a fine, dark brown to black muck with some noticeable leaves, sticks, etc. Very few macroinvertebrates were present, although each sample received only a cursory inspection for their presence. Water temperature was approximately 65 degrees F, air temperature was 90 degrees.

Attachments: loc description, data summary, site map, contour distribution map, lab reports,  
TC memo, PIC st memos

- N1 11' deep, fine dark brown to black muck, no odor, limited non-cohesive sheen on sample, limited cohesive surface sheening, no invertebrates visible.
- N2 18' deep, same as above.
- N3 22' deep, same as above except heavier sheening and several semi-solid particles of a possible free phase material appeared at the surface.
- N4 24' deep, same as N1.
- N5 24' deep, same as N1.
- N6 21' deep, same as above except more surface sheening.
- S7 12' deep, same as N3.
- S8 18' deep, same as N3 except heavier sheening at surface with some sheens thick and slow to dissipate.
- S9 21' deep, approximately 25' south same as S8.
- S10 22' deep, same as S8.
- S11 20' deep, same as S8 except much heavier sheening, continuing to appear for several minutes after dredge was removed, some sheening more colorful and dissipating more quickly, sample had petroleum odor.
- S12 18' deep, same as S8.
- S13 14' deep, same as S8.
- SA1 20' deep, same S8 except no sheens on sediment or on surface of water.
- SA2 20' deep, same as SA1.
- SA3 24' deep, same as SA1.
- SA4 24' deep, same as SA1.
- NA1 24' deep, same as SA1.
- NA2 26' deep, same as SA1.

BH

**Sunset Pond, Brookfield Site # 93-1507**

Sample results summary :

location	total PAH in ppb	# of PAHs detected (+/less than PQLs)
SA2	43,300	9/6
N1	55,940	16/5
N2	189,920	21/0
N5	4,900	4/4
S8	83,900	15/5
S11	436,700	21/0
S12	788,900	18/1
S/13 (dupl)	211,860	20/0

Dups were not comparable, samples not homogenous.

Positive PAHs (approx):

phenanthrene (up to 320ppm), anthracene, flouranthrene (up to 200ppm), pyrene (up to 120ppm), BA anthracene, chrysene, BA flouranthene, BKF, BAP (up to 15ppm), indeno(1,2,3cd) pyrene, 1 methlynaphthalene, di and tri methlynaphthalene isomers, also: naphthalene, acenaphthalene, dibenzofuran, fluorene.

approximate  
Sample Locations  
Site # 93-1507

Scuse +  
Pond

S440 S70

S80

S43-0 S90

S41-0 S100

S42-0 S110

S120

Dam



outflow

Bridge



ON6

ON5

ON4

ON3

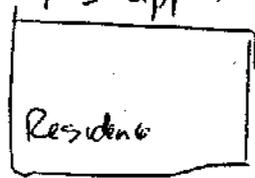
ON2

ON1

ONAI

ONAZ

1" = approx 50'



approximate  
Sample Locations  
Site # 93-1507

Sunset  
Pond

544  
0  
41

41  
570

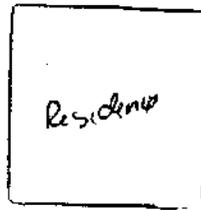
84  
580

41  
543-0  
41  
590

41  
541-0  
41  
5100

43  
542  
437  
5110

789  
5120



Approximate  
Contaminant  
Distribution

0 N641

5  
0 N5  
41

0 N4  
41

0 N3  
41

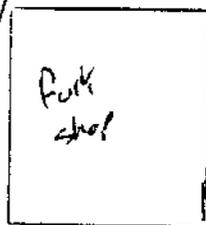
190  
0 N2

56  
0 N1

0 N1  
41

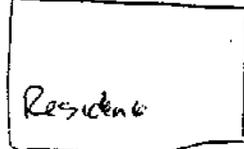
0 N2  
41

Dam



outflow

1" = approx 50'



N

6472 1/4 SW  
(ROXBURY)

4881

4880

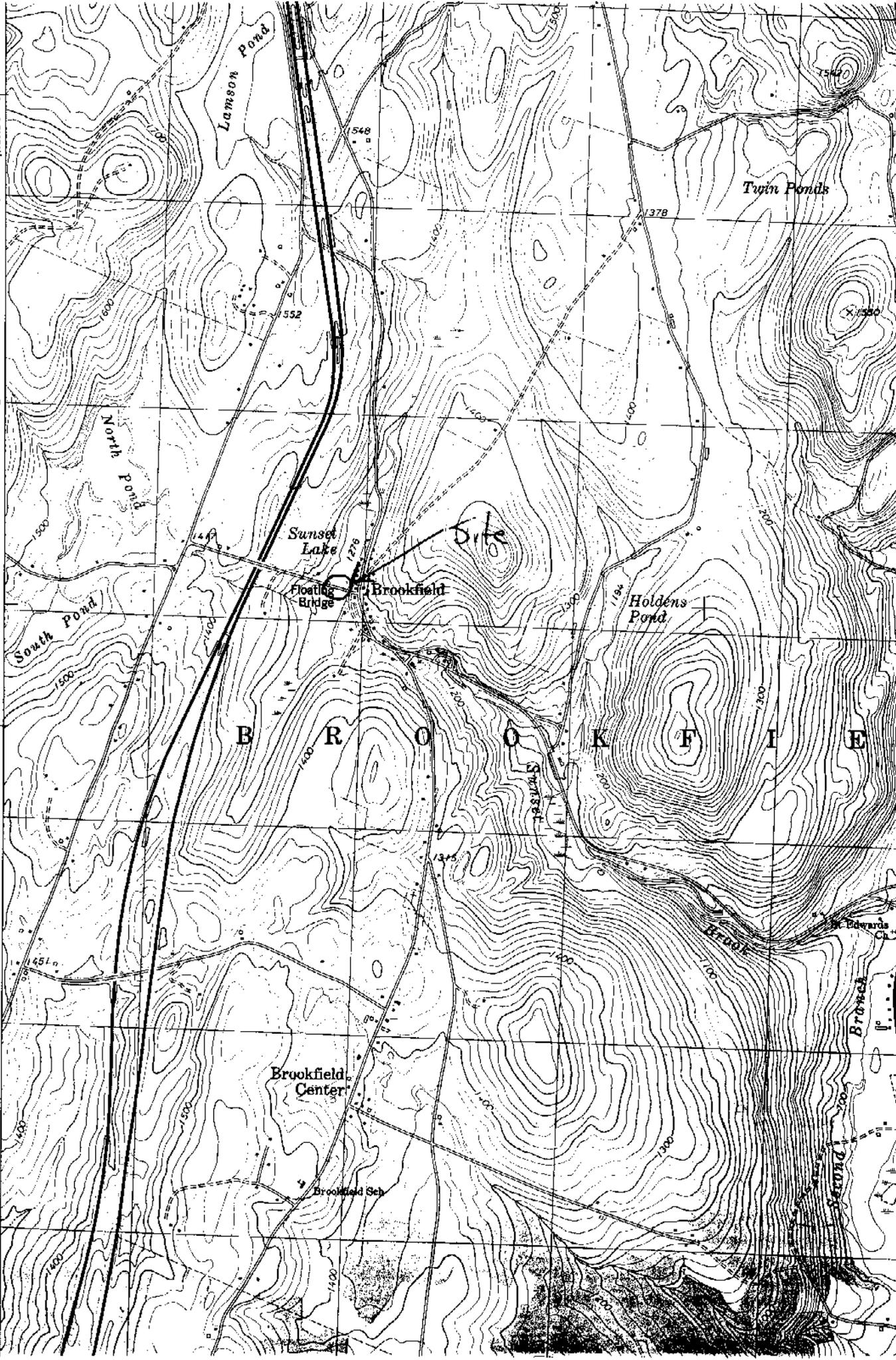
2'30"

4878

4877

4876

550 000



1

Pos. results by immunoglycose were then analyzed  
by 8770 for succ's

7/20/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

SRL

Lab Id: 8539 Report To: B/HASLAM  
Location: SA2

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 7/12/94 Over hold? No Dilution factor: 1 Date extracted: 7/28/94  
Sample wt.: 10.3 g Percent moisture: 74

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	2000	N.D.			
Pentachlorophenol	7000	N.D.	7	Y	145
Phenanthrene	2000	2500			
Anthracene	2000	1400			
Di-n-butylphthalate	4000	N.D.			
Fluoranthene	2000	13000			
Pyrene	2000	9400			121
Butyl benzyl phthalate	4000	N.D.			
Benzo[a]anthracene	2000	3200			
Chrysene	2000	3700			
3,3'-Dichlorobenzidine	20000	N.D.			
Bis(2-ethylhexyl)phthalate	4000	N.D.			
Benzo[b]fluoranthene	2000	3100			
Benzo[k]fluoranthene	2000	2900			
Di-n-octylphthalate	2000	N.D.			
Benzo[a]pyrene	2000	2000			
Indeno[1,2,3,cd]pyrene	2000	<1900			
Dibenz[a,h]anthracene	2000	N.D.			
Benzo[g,h,i]perylene	2000	2100			
C-3 Alkylbenzene isomers	2000	N.D.			
C-4 Alkylbenzene isomers	2000	N.D.			
1-Methylnaphthalene	2000	N.D.			
Dimethylnaphthalene isomers	2000	N.D.			
Trimethylnaphthalene isomers	2000	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	43%	Phenol-D6 . . . . .	54%	Nitrobenzene-D5 . . . . .	37%
2-Fluorobiphenyl . . . . .	42%	2,3,6-Tribromophenol . . . . .	109%	4-Terphenyl-D14 . . . . .	89%

Notes: Quantitative results of spiked dup 1 are 20 to 50 times higher than spiked dup 2 and unspiked sample. This is probably due to non-homogenous sample.

43,300 L=6

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

SRL

Lab Id: 8539 Report To: B/HASLAM  
Location: SA2Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 7/12/94 Over hold? No Dilution factor: 1 Date extracted: 7/28/94  
Sample wt.: 10.3 g Percent moisture: 74

Parameter	Units are ug/kg dw PQL	Remark Result	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	2000	N.D.			
Aniline	2000	N.D.			
Phenol	2000	N.D.	48	Y	63
Bis(2-chloroethyl)ether	2000	N.D.			
2-Chlorophenol	4000	N.D.	37	Y	57
1,3-Dichlorobenzene	2000	N.D.			
1,4-Dichlorobenzene	2000	N.D.	31	Y	26
1,2-Dichlorobenzene	2000	N.D.			
Benzylalcohol	4000	N.D.			
2-Methylphenol	2000	N.D.			
Bis(2-chloroisopropyl)ether	2000	N.D.			
Hexachloroethane	2000	N.D.			
4-Methylphenol	2000	N.D.			
N-Nitroso-di-n-propylamine	2000	N.D.	23	Y	57
Nitrobenzene	2000	N.D.			
Isophorone	2000	N.D.			
2-Nitrophenol	4000	N.D.			
2,4-Dimethylphenol	2000	N.D.			
Bis(2-chloroethoxy)methane	2000	N.D.			
2,4-Dichlorophenol	4000	N.D.			
1,2,4-Trichlorobenzene	2000	N.D.	2	Y	44
Naphthalene	2000	<1900			
Benzoic acid	20000	N.D.			
4-Chloroaniline	2000	N.D.			
Hexachlorobutadiene	2000	N.D.			
4-Chloro-3-methylphenol	4000	N.D.	2	Y	89
2-Methylnaphthalene	2000	<1900			
Hexachlorocyclopentadiene	2000	N.D.			
2,4,6-Trichlorophenol	4000	N.D.			
2,4,5-Trichlorophenol	4000	N.D.			
2-Chloronaphthalene	2000	N.D.			
2-Nitroaniline	7000	N.D.			
Acenaphthylene	2000	<1900			
Dimethylphthalate	4000	N.D.			
2,6-Dinitrotoluene	4000	N.D.			
Acenaphthene	2000	N.D.			
3-Nitroaniline	20000	N.D.			
2,4-Dinitrophenol	20000	N.D.			
Dibenzofuran	2000	<1900			
2,4-Dinitrotoluene	4000	N.D.	7	Y	82
4-Nitrophenol	20000	N.D.	1	Y	91
Fluorene	2000	<1900			
4-Chlorophenyl phenyl ether	2000	N.D.			
Diethylphthalate	4000	N.D.			
4-Nitroaniline	20000	N.D.			
4,6-Dinitro-2-methylphenol	20000	N.D.			
N-Nitrosodiphenylamine	2000	N.D.			
Azobenzene	2000	N.D.			
4-Bromophenyl phenyl ether	2000	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 21 1994

7/20/94

Department of Environmental Conservation Laboratory  
Analytical Results

SRL

Lab Id: 8539 Report To: B/HASLAM  
Location: SA2

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	>	1.					

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Remarks: E = Estimated Value      I = Chemical Interference      J = Value may be in Error      N = Sample not Processed  
P = Present, not Quantitated      Q = Insufficient Quantity      R = Results not Reported      W = Sample Warm on Arrival

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8525 Report To: B/HASLAM  
Location: N1

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 22.1 g Percent moisture: 64

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	600	N.D.				
Pentachlorophenol	3000	N.D.				
Phenanthrene	600	3500				
Anthracene	600	9300				
Di-n-butylphthalate	1000	N.D.				
Fluoranthene	600	3800				
Pyrene	600	10000				
Butyl benzyl phthalate	1000	N.D.				
Benzo[a]anthracene	600	5700				
Chrysene	600	5500				
3,3'-Dichlorobenzidine	6000	N.D.				
Bis(2-ethylhexyl)phthalate	1000	N.D.				
Benzo[b]fluoranthene	600	4600				
Benzo[k]fluoranthene	600	2600				
Di-n-octylphthalate	600	N.D.				
Benzo[a]pyrene	600	2400				
Indeno[1,2,3,cd]pyrene	600	1300				
Dibenz[a,h]anthracene	600	760				
Benzo[g,h,i]perylene	600	1000				
C-3 Alkylbenzene isomers	600	N.D.				
C-4 Alkylbenzene isomers	600	N.D.				
1-Methylnaphthalene	600	<600				
Dimethylnaphthalene isomers	600	900				
Trimethylnaphthalene isomers	600	1000				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	31%	Phenol-D6 . . . . .	84%	Nitrobenzene-D5 . . . . .	16%
2-Fluorobiphenyl . . . . .	32%	2,3,6-Tribromophenol . . . . .	109%	4-Terphenyl-D14 . . . . .	95%

Notes: Nitrobenzene surrogate recovery below control range.

55940R<sup>5</sup> 5

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 6 / 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8525 Report To: B/HASLAM  
Location: N1

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 22.1 g Percent moisture: 64

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	600	N.D.			
Aniline	600	N.D.			
Phenol	600	N.D.			
Bis(2-chloroethyl)ether	600	N.D.			
2-Chlorophenol	1000	N.D.			
1,3-Dichlorobenzene	600	N.D.			
1,4-Dichlorobenzene	600	N.D.			
1,2-Dichlorobenzene	600	N.D.			
Benzylalcohol	1000	N.D.			
2-Methylphenol	600	N.D.			
Bis(2-chloroisopropyl)ether	600	N.D.			
Hexachloroethane	600	N.D.			
4-Methylphenol	600	N.D.			
N-Nitroso-di-n-propylamine	600	N.D.			
Nitrobenzene	600	N.D.			
Isophorone	600	N.D.			
2-Nitrophenol	1000	N.D.			
2,4-Dimethylphenol	600	N.D.			
Bis(2-chloroethoxy)methane	600	N.D.			
2,4-Dichlorophenol	1000	N.D.			
1,2,4-Trichlorobenzene	600	N.D.			
Naphthalene	600	<600			
Benzoic acid	6000	N.D.			
4-Chloroaniline	600	N.D.			
Hexachlorobutadiene	600	N.D.			
4-Chloro-3-methylphenol	1000	N.D.			
2-Methylnaphthalene	600	<600			
Hexachlorocyclopentadiene	600	N.D.			
2,4,6-Trichlorophenol	1000	N.D.			
2,4,5-Trichlorophenol	1000	N.D.			
2-Chloronaphthalene	600	N.D.			
2-Nitroaniline	3000	N.D.			
Acenaphthylene	600	<60			
Dimethylphthalate	1000	N.D.			
2,6-Dinitrotoluene	1000	N.D.			
Acenaphthene	600	<600			
3-Nitroaniline	6000	N.D.			
2,4-Dinitrophenol	6000	N.D.			
Dibenzofuran	600	880			
2,4-Dinitrotoluene	1000	N.D.			
4-Nitrophenol	6000	N.D.			
Fluorene	600	2700			
4-Chlorophenyl phenyl ether	600	N.D.			
Diethylphthalate	1000	N.D.			
4-Nitroaniline	6000	N.D.			
4,6-Dinitro-2-methylphenol	6000	N.D.			
N-Nitrosodiphenylamine	600	N.D.			
Azobenzene	600	N.D.			
4-Bromophenyl phenyl ether	600	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8526 Report To: B/HASLAM  
Location: N2

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 20.1 g Percent moisture: 76

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	1000	N.D.				
Pentachlorophenol	4000	N.D.				
Phenanthrene	1000	12000				
Anthracene	1000	6200				
Di-n-butylphthalate	2000	N.D.				
Fluoranthene	1000	40000				
Pyrene	1000	29000				
Butyl benzyl phthalate	2000	N.D.				
Benzo[a]anthracene	1000	18000				
Chrysene	1000	18000				
3,3'-Dichlorobenzidine	10000	N.D.				
Bis(2-ethylhexyl)phthalate	2000	N.D.				
Benzo[b]fluoranthene	1000	16000				
Benzo[k]fluoranthene	1000	8700				
Di-n-octylphthalate	1000	N.D.				
Benzo[a]pyrene	1000	8200				
Indeno[1,2,3,cd]pyrene	1000	4100				
Dibenz[a,h]anthracene	1000	1800				
Benzo[g,h,i]perylene	1000	3100				
C-3 Alkylbenzene isomers	1000	N.D.				
C-4 Alkylbenzene isomers	1000	520				
1-Methylnaphthalene	1000	2100				
Dimethylnaphthalene isomers	1000	2100				
Trimethylnaphthalene isomers	1000	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	17%	Phenol-D6 . . . . .	64%	Nitrobenzene-D5 . . . . .	4%
2-Fluorobiphenyl . . . . .	12%	2,3,6-Tribromophenol . . . . .	109%	4-Terphenyl-D14 . . . . .	92%

Notes: Surrogate recovery below control range.

*21 100 187,920*

JUL 12 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8526 Report To: B/HASLAM  
Location: N2

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 20.1 g Percent moisture: 76

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	1000	N.D.			
Aniline	1000	N.D.			
Phenol	1000	N.D.			
Bis(2-chloroethyl)ether	1000	N.D.			
2-Chlorophenol	2000	N.D.			
1,3-Dichlorobenzene	1000	N.D.			
1,4-Dichlorobenzene	1000	N.D.			
1,2-Dichlorobenzene	1000	N.D.			
Benzylalcohol	2000	N.D.			
2-Methylphenol	1000	N.D.			
Bis(2-chloroisopropyl)ether	1000	N.D.			
Hexachloroethane	1000	N.D.			
4-Methylphenol	1000	N.D.			
N-Nitroso-di-n-propylamine	1000	N.D.			
Nitrobenzene	1000	N.D.			
Isophorone	1000	N.D.			
2-Nitrophenol	2000	N.D.			
2,4-Dimethylphenol	1000	N.D.			
Bis(2-chloroethoxy)methane	1000	N.D.			
2,4-Dichlorophenol	2000	N.D.			
1,2,4-Trichlorobenzene	1000	N.D.			
Naphthalene	1000	N.D.			7800
Benzoic acid	10000	N.D.			
4-Chloroaniline	1000	N.D.			
Hexachlorobutadiene	1000	N.D.			
4-Chloro-3-methylphenol	2000	N.D.			
2-Methylnaphthalene	1000	1100			
Hexachlorocyclopentadiene	1000	N.D.			
2,4,6-Trichlorophenol	2000	N.D.			
2,4,5-Trichlorophenol	2000	N.D.			
2-Chloronaphthalene	1000	N.D.			
2-Nitroaniline	4000	N.D.			
Acenaphthylene	1000	1000			
Dimethylphthalate	2000	N.D.			
2,6-Dinitrotoluene	2000	N.D.			
Acenaphthene	1000	2000			
3-Nitroaniline	10000	N.D.			
2,4-Dinitrophenol	10000	N.D.			
Dibenzofuran	1000	2300			
2,4-Dinitrotoluene	2000	N.D.			
4-Nitrophenol	10000	N.D.			
Fluorene	1000	5900			
4-Chlorophenyl phenyl ether	1000	N.D.			
Diethylphthalate	2000	N.D.			
4-Nitroaniline	10000	N.D.			
4,6-Dinitro-2-methylphenol	10000	N.D.			
N-Nitrosodiphenylamine	1000	N.D.			
Azobenzene	1000	N.D.			
4-Bromophenyl phenyl ether	1000	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

6/17/94

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8529 Report To: B/HASLAM  
Location: N5

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/23/94  
Sample wt.: 20.4 g Percent moisture: 89

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	2000	N.D.				
Pentachlorophenol	9000	N.D.		5	Y	
Phenanthrene	2000	<2200				
Anthracene	2000	<2200				
Di-n-butylphthalate	4000	N.D.				
Fluoranthene	2000	2800				
Pyrene	2000	2100		16		
Butyl benzyl phthalate	4000	N.D.				
Benzo[a]anthracene	2000	<2200				
Chrysene	2000	<2200				
3,3'-Dichlorobenzidine	20000	N.D.				
Bis(2-ethylhexyl)phthalate	4000	N.D.				
Benzo[b]fluoranthene	2000	N.D.				
Benzo[k]fluoranthene	2000	N.D.				
Di-n-octylphthalate	2000	N.D.				
Benzo[a]pyrene	2000	N.D.				
Indeno[1,2,3,cd]pyrene	2000	N.D.				
Dibenz[a,h]anthracene	2000	N.D.				
Benzo[g,h,i]perylene	2000	N.D.				
C-3 Alkylbenzene isomers	2000	N.D.				
C-4 Alkylbenzene isomers	2000	N.D.				
1-Methylnaphthalene	2000	N.D.				
Dimethylnaphthalene isomers	2000	N.D.				
Trimethylnaphthalene isomers	2000	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	33%	Phenol-D6 . . . . .	63%	Nitrobenzene-D5 . . . . .	48%
2-Fluorobiphenyl . . . . .	57%	2,3,6-Tribromophenol . . . . .	100%	4-Terphenyl-D14 . . . . .	85%

Notes:

*41 rep 4.506 L=4*

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8529 Report To: B/HASLAM  
Location: N5

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/23/94  
Sample wt.: 20.4 g Percent moisture: 89

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	2000	N.D.			
Aniline	2000	N.D.			
Phenol	2000	N.D.	10	Y	
Bis(2-chloroethyl)ether	2000	N.D.			
2-Chlorophenol	4000	N.D.	12	Y	
1,3-Dichlorobenzene	2000	N.D.			
1,4-Dichlorobenzene	2000	N.D.	6	Y	
1,2-Dichlorobenzene	2000	N.D.			
Benzylalcohol	4000	N.D.			
2-Methylphenol	2000	N.D.			
Bis(2-chloroisopropyl)ether	2000	N.D.			
Hexachloroethane	2000	N.D.			
4-Methylphenol	2000	N.D.			
N-Nitroso-di-n-propylamine	2000	N.D.	8	Y	
Nitrobenzene	2000	N.D.			
Isophorone	2000	N.D.			
2-Nitrophenol	4000	N.D.			
2,4-Dimethylphenol	2000	N.D.			
Bis(2-chloroethoxy)methane	2000	N.D.			
2,4-Dichlorophenol	4000	N.D.			
1,2,4-Trichlorobenzene	2000	N.D.	18	Y	
Naphthalene	2000	N.D.			
Benzoic acid	20000	N.D.			
4-Chloroaniline	2000	N.D.			
Hexachlorobutadiene	2000	N.D.			
4-Chloro-3-methylphenol	4000	N.D.	7	Y	
2-Methylnaphthalene	2000	N.D.			
Hexachlorocyclopentadiene	2000	N.D.			
2,4,6-Trichlorophenol	4000	N.D.			
2,4,5-Trichlorophenol	4000	N.D.			
2-Chloronaphthalene	2000	N.D.			
2-Nitroaniline	9000	N.D.			
Acenaphthylene	2000	N.D.			
Dimethylphthalate	4000	N.D.			
2,6-Dinitrotoluene	4000	N.D.			
Acenaphthene	2000	N.D.	6	Y	
3-Nitroaniline	20000	N.D.			
2,4-Dinitrophenol	20000	N.D.			
Dibenzofuran	2000	N.D.			
2,4-Dinitrotoluene	4000	N.D.			
4-Nitrophenol	20000	N.D.	5	Y	
Fluorene	2000	N.D.	4	Y	
4-Chlorophenyl phenyl ether	2000	N.D.			
Diethylphthalate	4000	N.D.			
4-Nitroaniline	20000	N.D.			
4,6-Dinitro-2-methylphenol	20000	N.D.			
N-Nitrosodiphenylamine	2000	N.D.			
Azobenzene	2000	N.D.			
4-Bromophenyl phenyl ether	2000	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8532 Report To: B/HASLAM  
Location: S8

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 20.7 g Percent moisture: 81

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	1000	N.D.				
Pentachlorophenol	5000	N.D.				
Phenanthrene	1000	17000				
Anthracene	1000	3800				
Di-n-butylphthalate	3000	N.D.				
Fluoranthene	1000	17000				
Pyrene	1000	13000				
Butyl benzyl phthalate	3000	N.D.				
Benzo[a]anthracene	1000	4400				
Chrysene	1000	4200				
3,3'-Dichlorobenzidine	10000	N.D.				
Bis(2-ethylhexyl)phthalate	3000	N.D.				
Benzo[b]fluoranthene	1000	2800				
Benzo[k]fluoranthene	1000	1800				
Di-n-octylphthalate	1000	N.D.				
Benzo[a]pyrene	1000	2300				
Indeno[1,2,3,cd]pyrene	1000	2200				
Dibenz[a,h]anthracene	1000	N.D.				
Benzo[g,h,i]perylene	1000	1200				
C-3 Alkylbenzene isomers	1000	N.D.				
C-4 Alkylbenzene isomers	1000	N.D.				
1-Methylnaphthalene	1000	<1300				
Dimethylnaphthalene isomers	1000	2700				
Trimethylnaphthalene isomers	1000	<1300				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	22%	Phenol-D6 . . . . .	70%	Nitrobenzene-D5 . . . . .	6%
2-Fluorobiphenyl . . . . .	22%	2,3,6-Tribromophenol . . . . .	113%	4-Terphenyl-D14 . . . . .	93%

Notes: Percent recovery for nitrobenzene surrogate below control range.

15 comp.

900

200

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8532 Report To: B/HASLAM  
Location: S8

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 20.7 g Percent moisture: 81

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	1000	N.D.			
Aniline	1000	N.D.			
Phenol	1000	N.D.			
Bis(2-chloroethyl)ether	1000	N.D.			
2-Chlorophenol	3000	N.D.			
1,3-Dichlorobenzene	1000	N.D.			
1,4-Dichlorobenzene	1000	N.D.			
1,2-Dichlorobenzene	1000	N.D.			
Benzylalcohol	3000	N.D.			
2-Methylphenol	1000	N.D.			
Bis(2-chloroisopropyl)ether	1000	N.D.			
Hexachloroethane	1000	N.D.			
4-Methylphenol	1000	N.D.			
N-Nitroso-di-n-propylamine	1000	N.D.			
Nitrobenzene	1000	N.D.			
Isophorone	1000	N.D.			
2-Nitrophenol	3000	N.D.			
2,4-Dimethylphenol	1000	N.D.			
Bis(2-chloroethoxy)methane	1000	N.D.			
2,4-Dichlorophenol	3000	N.D.			
1,2,4-Trichlorobenzene	1000	N.D.			
Naphthalene	1000	<1300			
Benzoic acid	10000	N.D.			
4-Chloroaniline	1000	N.D.			
Hexachlorobutadiene	1000	N.D.			
4-Chloro-3-methylphenol	3000	N.D.			
2-Methylnaphthalene	1000	<1300			
Hexachlorocyclopentadiene	1000	N.D.			
2,4,6-Trichlorophenol	3000	N.D.			
2,4,5-Trichlorophenol	3000	N.D.			
2-Chloronaphthalene	1000	N.D.			
2-Nitroaniline	5000	N.D.			
Acenaphthylene	1000	<1300			
Dimethylphthalate	3000	N.D.			
2,6-Dinitrotoluene	3000	N.D.			
Acenaphthene	1000	3500			
3-Nitroaniline	10000	N.D.			
2,4-Dinitrophenol	10000	N.D.			
Dibenzofuran	1000	3100			
2,4-Dinitrotoluene	3000	N.D.			
4-Nitrophenol	10000	N.D.			
Fluorene	1000	4900			
4-Chlorophenyl phenyl ether	1000	N.D.			
Diethylphthalate	3000	N.D.			
4-Nitroaniline	10000	N.D.			
4,6-Dinitro-2-methylphenol	10000	N.D.			
N-Nitrosodiphenylamine	1000	N.D.			
Azobenzene	1000	N.D.			
4-Bromophenyl phenyl ether	1000	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUN 17 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8535 Report To: B/HASLAM  
Location: S11

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/16/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 30.2 g Percent moisture: 83

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	1000	N.D.				
Pentachlorophenol	4000	N.D.				
Phenanthrene	1000	62000				
Anthracene	1000	20000				
Di-n-butylphthalate	2000	N.D.				
Fluoranthene	1000	58000				
Pyrene	1000	35000				
Butyl benzyl phthalate	2000	N.D.				
Benzo[a]anthracene	1000	12000				
Chrysene	1000	11000				
3,3'-Dichlorobenzidine	10000	N.D.				
Bis(2-ethylhexyl)phthalate	2000	N.D.				
Benzo[b]fluoranthene	1000	24000				
Benzo[k]fluoranthene	1000	16000				
Di-n-octylphthalate	1000	N.D.				
Benzo[a]pyrene	1000	15000				
Indeno[1,2,3,cd]pyrene	1000	5900				
Dibenz[a,h]anthracene	1000	2900				
Benzo[g,h,i]perylene	1000	4500				
C-3 Alkylbenzene isomers	1000	N.D.				
C-4 Alkylbenzene isomers	1000	N.D.				
1-Methylnaphthalene	1000	6800				
Dimethylnaphthalene isomers	1000	50000				
Trimethylnaphthalene isomers	1000	38000				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	21%	Phenol-D6 . . . . .	52%	Nitrobenzene-D5 . . . . .	4%
2-Fluorobiphenyl . . . . .	12%	2,3,6-Tribromophenol . . . . .	84%	4-Terphenyl-D14 . . . . .	110%

Notes: Nitrobenzene and 2-fluorobiphenyl surrogate recoveries below control range.

*21699 4136.700*

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8535 Report To: B/HASLAM  
Location: S11

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/16/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 30.2 g Percent moisture: 83

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	1000	N.D.			
Aniline	1000	N.D.			
Phenol	1000	N.D.			
Bis(2-chloroethyl)ether	1000	N.D.			
2-Chlorophenol	2000	N.D.			
1,3-Dichlorobenzene	1000	N.D.			
1,4-Dichlorobenzene	1000	N.D.			
1,2-Dichlorobenzene	1000	N.D.			
Benzylalcohol	2000	N.D.			
2-Methylphenol	1000	N.D.			
Bis(2-chloroisopropyl)ether	1000	N.D.			
Hexachloroethane	1000	N.D.			
4-Methylphenol	1000	N.D.			
N-Nitroso-di-n-propylamine	1000	N.D.			
Nitrobenzene	1000	N.D.			
Isophorone	1000	N.D.			
2-Nitrophenol	2000	N.D.			
2,4-Dimethylphenol	1000	N.D.			
Bis(2-chloroethoxy)methane	1000	N.D.			
2,4-Dichlorophenol	2000	N.D.			
1,2,4-Trichlorobenzene	1000	N.D.			
Naphthalene	1000	6800			
Benzoic acid	10000	N.D.			
4-Chloroaniline	1000	N.D.			
Hexachlorobutadiene	1000	N.D.			
4-Chloro-3-methylphenol	2000	N.D.			
2-Methylnaphthalene	1000	18000			
Hexachlorocyclopentadiene	1000	N.D.			
2,4,6-Trichlorophenol	2000	N.D.			
2,4,5-Trichlorophenol	2000	N.D.			
2-Chloronaphthalene	1000	N.D.			
2-Nitroaniline	4000	N.D.			
Acenaphthylene	1000	1800			
Dimethylphthalate	2000	N.D.			
2,6-Dinitrotoluene	2000	N.D.			
Acenaphthene	1000	18000			
3-Nitroaniline	10000	N.D.			
2,4-Dinitrophenol	10000	N.D.			
Dibenzofuran	1000	14000			
2,4-Dinitrotoluene	2000	N.D.			
4-Nitrophenol	10000	N.D.			
Fluorene	1000	17000			
4-Chlorophenyl phenyl ether	1000	N.D.			
Diethylphthalate	2000	N.D.			
4-Nitroaniline	10000	N.D.			
4,6-Dinitro-2-methylphenol	10000	N.D.			
N-Nitrosodiphenylamine	1000	N.D.			
Azobenzene	1000	N.D.			
4-Bromophenyl phenyl ether	1000	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8536 Report To: B/HASLAM  
Location: S12

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/16/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 30.0 g Percent moisture: 81

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	900	N.D.			
Pentachlorophenol	4000	N.D.			
Phenanthrene	900	320000 ✓			
Anthracene	900	44000 ✓			
Di-n-butylphthalate	2000	N.D.			
Fluoranthene	900	200000 ✓			
Pyrene	900	120000 ✓			
Butyl benzyl phthalate	2000	N.D.			
Benzo[a]anthracene	900	11000			
Chrysene	900	10000			
3,3'-Dichlorobenzidine	9000	N.D.			
Bis(2-ethylhexyl)phthalate	2000	N.D.			
Benzo[b]fluoranthene	900	6300			
Benzo[k]fluoranthene	900	6100			
Di-n-octylphthalate	900	N.D.			
Benzo[a]pyrene	900	2700			
Indeno[1,2,3,cd]pyrene	900	1600			
Dibenz[a,h]anthracene	900	N.D.			
Benzo[g,h,i]perylene	900	1000			
C-3 Alkylbenzene isomers	900	N.D.			
C-4 Alkylbenzene isomers	900	N.D.			
1-Methylnaphthalene	900	1500			
Dimethylnaphthalene isomers	900	9100			
Trimethylnaphthalene isomers	900	6700			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	22%	Phenol-D6 . . . . .	75%	Nitrobenzene-D5 . . . . .	2%
2-Fluorobiphenyl . . . . .	7%	2,3,6-Tribromophenol . . . . .	96%	4-Terphenyl-D14 . . . . .	86%

Notes:

18 788,900

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8536 Report To: B/HASLAM  
Location: S12

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/16/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 30.0 g Percent moisture: 81

Parameter	Units are ug/kg dw PQL	Result	Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	900	N.D.				
Aniline	900	N.D.				
Phenol	900	N.D.				
Bis(2-chloroethyl)ether	900	N.D.				
2-Chlorophenol	2000	N.D.				
1,3-Dichlorobenzene	900	N.D.				
1,4-Dichlorobenzene	900	N.D.				
1,2-Dichlorobenzene	900	N.D.				
Benzylalcohol	2000	N.D.				
2-Methylphenol	900	N.D.				
Bis(2-chloroisopropyl)ether	900	N.D.				
Hexachloroethane	900	N.D.				
4-Methylphenol	900	N.D.				
N-Nitroso-di-n-propylamine	900	N.D.				
Nitrobenzene	900	N.D.				
Isophorone	900	N.D.				
2-Nitrophenol	2000	N.D.				
2,4-Dimethylphenol	900	N.D.				
Bis(2-chloroethoxy)methane	900	N.D.				
2,4-Dichlorophenol	2000	N.D.				
1,2,4-Trichlorobenzene	900	N.D.				
Naphthalene	900	7700				
Benzoic acid	9000	N.D.				
4-Chloroaniline	900	N.D.				
Hexachlorobutadiene	900	N.D.				
4-Chloro-3-methylphenol	2000	N.D.				
2-Methylnaphthalene	900	3500				
Hexachlorocyclopentadiene	900	N.D.				
2,4,6-Trichlorophenol	2000	N.D.				
2,4,5-Trichlorophenol	2000	N.D.				
2-Chloronaphthalene	900	N.D.				
2-Nitroaniline	4000	N.D.				
Acenaphthylene	900	<900				
Dimethylphthalate	2000	N.D.				
2,6-Dinitrotoluene	2000	N.D.				
Acenaphthene	900	12000				
3-Nitroaniline	9000	N.D.				
2,4-Dinitrophenol	9000	N.D.				
Dibenzofuran	900	9700				
2,4-Dinitrotoluene	2000	N.D.				
4-Nitrophenol	9000	N.D.				
Fluorene	900	16000				
4-Chlorophenyl phenyl ether	900	N.D.				
Diethylphthalate	2000	N.D.				
4-Nitroaniline	9000	N.D.				
4,6-Dinitro-2-methylphenol	9000	N.D.				
N-Nitrosodiphenylamine	900	N.D.				
Azobenzene	900	N.D.				
4-Bromophenyl phenyl ether	900	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

JUL 07 1994

GJD

Lab Id: 8537 Report To: B/HASLAM  
Location: S13

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 20.0 g Percent moisture: 62

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	700	N.D.				
Pentachlorophenol	3000	N.D.				
Phenanthrene	700	40000		32		
Anthracene	700	13000		52		
Di-n-butylphthalate	1000	N.D.				
Fluoranthene	700	51000		69		
Pyrene	700	33000		65		
Butyl benzyl phthalate	1000	N.D.				
Benzo[a]anthracene	700	10000		49		
Chrysene	700	11000		57		
3,3'-Dichlorobenzidine	7000	N.D.				
Bis(2-ethylhexyl)phthalate	1000	N.D.				
Benzo[b]fluoranthene	700	6200		65		
Benzo[k]fluoranthene	700	3000		31		
Di-n-octylphthalate	700	N.D.				
Benzo[a]pyrene	700	3600		56		
Indeno[1,2,3,cd]pyrene	700	1700		59		
Dibenz[a,h]anthracene	700	850		35		
Benzo[g,h,i]perylene	700	1200		59		
C-3 Alkylbenzene isomers	700	N.D.				
C-4 Alkylbenzene isomers	700	N.D.				
1-Methylnaphthalene	700	650		26		
Dimethylnaphthalene isomers	700	4600		39		
Trimethylnaphthalene isomers	700	3200		49		

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	23%	Phenol-D6 . . . . .	71%	Nitrobenzene-D5 . . . . .	9%
2-Fluorobiphenyl . . . . .	29%	2,3,6-Tribromophenol . . . . .	115%	4-Terphenyl-D14 . . . . .	93%

Notes: These results are the summation of 2 extractions. Not all material contacted the extraction solvent on the first extraction. Runs 8537A & 8537AA

20 comp 211860

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

JUL 07 1994

7/06/94

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 8537 Report To: B/HASLAM  
Location: S13Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Date Analyzed: 6/15/94 Over hold? No Dilution factor: 1 Date extracted: 6/22/94  
Sample wt.: 20.0 g Percent moisture: 62

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
N-Nitrosodimethylamine	700	N.D.				
Aniline	700	N.D.				
Phenol	700	N.D.				
Bis(2-chloroethyl)ether	700	N.D.				
2-Chlorophenol	1000	N.D.				
1,3-Dichlorobenzene	700	N.D.				
1,4-Dichlorobenzene	700	N.D.				
1,2-Dichlorobenzene	700	N.D.				
Benzylalcohol	1000	N.D.				
2-Methylphenol	700	N.D.				
Bis(2-chloroisopropyl)ether	700	N.D.				
Hexachloroethane	700	N.D.				
4-Methylphenol	700	N.D.				
N-Nitroso-di-n-propylamine	700	N.D.				
Nitrobenzene	700	N.D.				
Isophorone	700	N.D.				
2-Nitrophenol	1000	N.D.				
2,4-Dimethylphenol	700	N.D.				
Bis(2-chloroethoxy)methane	700	N.D.				
2,4-Dichlorophenol	1000	N.D.				
1,2,4-Trichlorobenzene	700	N.D.				
Naphthalene	700	2100		0		
Benzoic acid	7000	N.D.				
4-Chloroaniline	700	N.D.				
Hexachlorobutadiene	700	N.D.				
4-Chloro-3-methylphenol	1000	N.D.				
2-Methylnaphthalene	700	820		5		
Hexachlorocyclopentadiene	700	N.D.				
2,4,6-Trichlorophenol	1000	N.D.				
2,4,5-Trichlorophenol	1000	N.D.				
2-Chloronaphthalene	700	N.D.				
2-Nitroaniline	3000	N.D.				
Acenaphthylene	700	440		76		
Dimethylphthalate	1000	N.D.				
2,6-Dinitrotoluene	1000	N.D.				
Acenaphthene	700	7100		11		
3-Nitroaniline	7000	N.D.				
2,4-Dinitrophenol	7000	N.D.				
Dibenzofuran	700	6400		14		
2,4-Dinitrotoluene	1000	N.D.				
4-Nitrophenol	7000	N.D.				
Fluorene	700	12000		9		
4-Chlorophenyl phenyl ether	700	N.D.				
Diethylphthalate	1000	N.D.				
4-Nitroaniline	7000	N.D.				
4,6-Dinitro-2-methylphenol	7000	N.D.				
N-Nitrosodiphenylamine	700	N.D.				
Azobenzene	700	N.D.				
4-Bromophenyl phenyl ether	700	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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GJD

Lab Id: 8543 Report To: B/HASLAM  
Location: NA2

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1.					mg/kg

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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Analytical Results

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Lab Id: 8542 Report To: B/HASLAM  
Location: NA1

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8541 Report To: B/HASLAM  
Location: SA4

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1.					mg/kg

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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6/16/94

GJD

Lab Id: 8540 Report To: B/HASLAM  
Location: SA3

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1. mg/kg					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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Lab Id: 8538 Report To: B/HASLAM  
Location: SA1

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1. mg/kg					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8537 Report To: B/HASLAM  
Location: S13

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	>	10.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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8/17/1994

GJD

Lab Id: 8536 Report To: B/HASLAM  
Location: S12

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	>	10.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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Analytical Results

1994 6 17 1994

GJD

Lab Id: 8535 Report To: B/HASLAM  
Location: S11

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	10.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8534 Report To: B/HASLAM  
Location: S10

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1.					mg/kg

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8533 Report To: B/HASLAM  
Location: S9

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1. mg/kg					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8532 Report To: B/HASLAM  
Location: S8

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	10.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8531 Report To: B/HASLAM  
Location: S7

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1. mg/kg					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8530 Report To: B/HASLAM  
Location: N6

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1. mg/kg					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8529 Report To: B/HASLAM  
Location: N5

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1. mg/kg					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8528 Report To: B/HASLAM  
Location: N4

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8527 Report To: B/HASLAM  
Location: N3

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	1. mg/kg					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8526 Report To: B/HASLAM  
Location: N2

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	10.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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GJD

Lab Id: 8525 Report To: B/HASLAM  
Location: N1

Phone: 241-3888 Date Collected: 6/16/94  
Program: 22 1507 Chain of Custody? No

Notes: SUNSET POND, BROOKFIELD

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Immunoassay for PAHs - Soil	<	10.					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival