



**APPENDIX 1 – LABORATORY ANALYSIS CERTIFICATES**

**Client:** Mayer Environmental Services  
Transport Avenue  
Brentford  
Middlesex  
TW8 9HA

**FAO:** Mr K Thomas

**Analytical Report Number: R04/9400s**

<b>Client Project Name:</b>	<b>None Specified</b>
<b>Client Project Number:</b>	<b>ME/04/5241</b>
<b>Your Order Number:</b>	<b>10277</b>
<b>Order Receipt Date:</b>	<b>29/11/04</b>
<b>Reporting Date:</b>	<b>Friday 17 December 2004</b>

If you have any queries regarding this report please contact our Customer Services Manager



## ECoS Environmental

Low Moor Business Park,  
Common Road, Bradford BD12 8ND  
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: None Specified

Project Number: ME/04/5241

Client: Mayer Environmental Services

Reporting Date: Friday 17 December 2004

### Comments

All analyses are carried out using the laboratory's standard methods unless otherwise agreed.

The test results in this report refer only to the actual samples on which testing has been performed.

Any opinions and/or interpretations expressed herein are outside the scope of the testing laboratory's UKAS accreditation.

The test report shall not be reproduced, except in full, without the testing laboratory's written approval.

This testing laboratory cannot be held responsible for the condition or suitability of samples submitted for testing by a third party or for the competency of personnel other than its own staff.

### Soil Samples

Results are expressed based on air dried mass @ 30°C unless otherwise stated.

See key in Notes section for explanation of numerical categories for asbestos results, if applicable.

Stones (for example inert flints and inorganic minerals) >10mm are removed prior to analysis. Unless otherwise stated, results have not been corrected for this loss.

Samples submitted for leachate determination were prepared using agreed procedures and analysed using UKAS accredited methodology where appropriate.

Results are expressed without correction for recovery factors.

### Key:

#### Accreditation:

MCERTS = This test is accredited to the British Standard BS EN ISO/IEC 17025:2000 and the Environment Agency MCERTS for soil standard.

17025 = This test is accredited to the British Standard BS EN ISO/IEC 17025:2000.

None = This test is currently not on our scope of accreditation.

#### Sample Pretreatment (Appended to Method of Detection)

L = Air Dried @ 30°C

R = As Received

#### Sample Type

B = Bulk disturbed sample

P = Piston sample

C = Core Sample

U = Undisturbed sample - open drive

D = Small disturbed sample

W = Water Sample

#### Sample Results

# Analysis not requested

\*\*\* Test not completed. Please see notes on last page

Signed: \_\_\_\_\_

For and on behalf of ECoS Environmental

Approved signatories:

#### **Name**

J R Brown

E Dewell

P Richardson

J Stoddart

#### **Position**

Customer Services Manager

Production Manager

Quality Manager

Technical Manager



## ECoS Environmental

Low Moor Business Park,  
Common Road, Bradford BD12 8ND  
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: None Specified

Project Number: ME/04/5241

Client: Mayer Environmental Services

Reporting Date: Friday 17 December 2004

### Soil Samples

### Method Statement

Determinand	Method of Detection	Sample Pretreatment	Limit of Detection	Accreditation	Sub-Contracted	Result Date
pH	pH-meter	D	N/A	17025	No	08/12/04
Arsenic	ICP-OES	D	1.0 mg/kg	17025	No	08/12/04
Cadmium	ICP-OES	D	0.2 mg/kg	17025	No	08/12/04
Chromium (total)	ICP-OES	D	0.2 mg/kg	17025	No	08/12/04
Copper	ICP-OES	D	0.2 mg/kg*	17025	No	08/12/04
Lead	ICP-OES	D	0.5 mg/kg	17025	No	08/12/04
Mercury	ICP-OES	D	1.0 mg/kg	17025	No	08/12/04
Nickel	ICP-OES	D	0.2 mg/kg	17025	No	08/12/04
Selenium	ICP-OES	D	1.0 mg/kg	17025	No	08/12/04
Zinc	ICP-OES	D	0.2 mg/kg	17025	No	08/12/04
Boron (water soluble)	ICP-OES	D	0.5 mg/kg	17025	No	14/12/04
Electrical Conductivity	Conductivity Meter	R	10 uS/cm @25C	None	No	08/12/04
Cyanide (total)	Colorimetry	R	2.0 mg/kg	17025	No	07/12/04
Phenols (total)	Colorimetry	R	1.0 mg/kg	17025	No	06/12/04
Sulphur (elemental)	HPLC-UV	D	100 mg/kg	17025	No	14/12/04
Sulphide	Colorimetry	R	2.0 mg/kg	17025	No	08/12/04
Sulphate (water soluble)	HPLC-IC	D	0.001 g/l SO <sub>4</sub>	17025	No	16/12/04
TEM	Gravimetry	D	100 mg/kg	None	No	07/12/04
PAH (total)	GC-MS	D	0.1 mg/kg	17025	No	17/12/04

Report R04/9400s is a supplement to R04/9400, containing amended Lead analysis.



## ECoS Environmental

Low Moor Business Park,  
Common Road, Bradford BD12 8ND  
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: None Specified

Project Number: ME/04/5241

Client: Mayer Environmental Services

Reporting Date: Friday 17 December 2004

BH/TP					
Top Depth / m					
Bottom Depth / m					
Customer ID	+	+	+	+	+
Sample Type					
Date Sampled					
Receipt Date					
ECoS Sample ID					
Matrix Type					
Determinand	Units				
pH	N/A				
Arsenic	mg/kg				
Cadmium	mg/kg				
Chromium (total)	mg/kg				
Copper	mg/kg				
Lead	mg/kg				
Mercury	mg/kg				
Nickel	mg/kg				
Selenium	mg/kg				
Zinc	mg/kg				
Boron (water soluble)	mg/kg				



## ECoS Environmental

Low Moor Business Park,  
Common Road, Bradford BD12 8ND  
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: None Specified

Project Number: ME/04/5241

Client: Mayer Environmental Services

Reporting Date: Friday 17 December 2004

BH/TP					
Top Depth / m					
Bottom Depth / m					
Customer ID					35 Falkland. S2 shallow
Sample Type					
Date Sampled					
Receipt Date					29/11/04
ECoS Sample ID					S0493504
Matrix Type					Soil

Determinand	Units					
pH	N/A					7.3
Arsenic	mg/kg					22.1
Cadmium	mg/kg					2.1
Chromium (total)	mg/kg					45.5
Copper	mg/kg					191.9
Lead	mg/kg					3131.5
Mercury	mg/kg					1.4
Nickel	mg/kg					28.5
Selenium	mg/kg					<1.0
Zinc	mg/kg					1364.9
Boron (water soluble)	mg/kg					<0.5
Electrical Conductivity	uS/cm @25C					510
Cyanide (total)	mg/kg					<2.0
Fluoride (total)	mg/kg					<1.0
Sulphur (elemental)	mg/kg					<100
Sulphide	mg/kg					<2.0
Sulphate (water soluble)	g/l SO4					0.090
TEM	mg/kg					1620
PAH (total)	mg/kg					41.2



## ECoS Environmental

Low Moor Business Park,  
Common Road, Bradford BD12 8ND  
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: None Specified

Project Number: ME/04/5241

Client: Mayer Environmental Services

Reporting Date: Friday 17 December 2004

BH/TP					
Top Depth / m					
Bottom Depth / m					
Customer ID	35 Falkland. S3 shallow	35 Falkland. S3 deep	35 Falkland. S4 shallow	35 Falkland. Wall Scrape	
Sample Type					
Date Sampled					
Receipt Date	29/11/04	29/11/04	29/11/04	29/11/04	
ECoS Sample ID	S0493506	S0493507	S0493508	S0493509	
Matrix Type	Soil	Soil	Soil	Soil	
Determinand	Units				
pH	N/A	7.7	7.8	7.2	8.2
Arsenic	mg/kg	20.2	21.8	23.1	9.6
Cadmium	mg/kg	1.5	1.1	2.5	0.2
Chromium (total)	mg/kg	41.6	45.2	62.0	92.9
Copper	mg/kg	154.8	140.9	436.6	23.9
Lead	mg/kg	1977.0	896.4	2656.0	33.0
Mercury	mg/kg	1.2	1.5	3.0	<1.0
Nickel	mg/kg	26.0	27.5	27.6	19.0
Selenium	mg/kg	<1.0	<1.0	<1.0	<1.0
Zinc	mg/kg	761.1	569.1	1408.9	163.1
Boron (water soluble)	mg/kg	<0.5	<0.5	<0.5	54.1
Electrical Conductivity	uS/cm @25C	#	#	#	#
Cyanide (total)	mg/kg	#	#	#	#
enols (total)	mg/kg	#	#	#	#
Sulphur (elemental)	mg/kg	#	#	#	#
Sulphide	mg/kg	#	#	#	#
Sulphate (water soluble)	g/l SO4	#	#	#	#
TEM	mg/kg	#	#	#	#
PAH (total)	mg/kg	#	#	#	#



## ECoS Environmental

Low Moor Business Park,  
Common Road, Bradford BD12 8ND  
Tel: 01274 691122 Fax: 01274 608100

Client Project Name: None Specified

Project Number: ME/04/5241

Client: Mayer Environmental Services

Reporting Date: Friday 17 December 2004

BH/TP				
Top Depth / m				
Bottom Depth / m				
Customer ID	+	+	+	+
Sample Type				
Date Sampled				
Receipt Date				
ECoS Sample ID				
Matrix Type				

Determinand	Units				
pH	N/A				
Arsenic	mg/kg				
Cadmium	mg/kg				
Chromium (total)	mg/kg				
Copper	mg/kg				
Lead	mg/kg				
Mercury	mg/kg				
Nickel	mg/kg				
Selenium	mg/kg				
Zinc	mg/kg				
Boron (water soluble)	mg/kg				





## **ECoS Environmental**

Low Moor Business Park,  
Common Road, Bradford BD12 8ND  
Tel: 01274 691122 Fax: 01274 608100

**Client Project Name:** None Specified

**Project Number:** ME/04/5241

**Client:** Mayer Environmental Services

**Reporting Date:** Friday 17 December 2004

### **Notes and Preservation Details**

None