

**Site** 8 Pilgrims Lane, Hampstead, London, NW3 1SL**Client** Mrs Abiola**Engineer** Brod Wight Architects**Job Number**  
J10228**Sheet**  
4/5

View of the footings encountered in Trial Pit No 4, looking south (16/11/2010)

Excavation Method  
Manual

Dimensions  
700 x 500 x 910

Ground Level (mOD)

Client  
Mrs Abiola

Job  
Number  
J10228

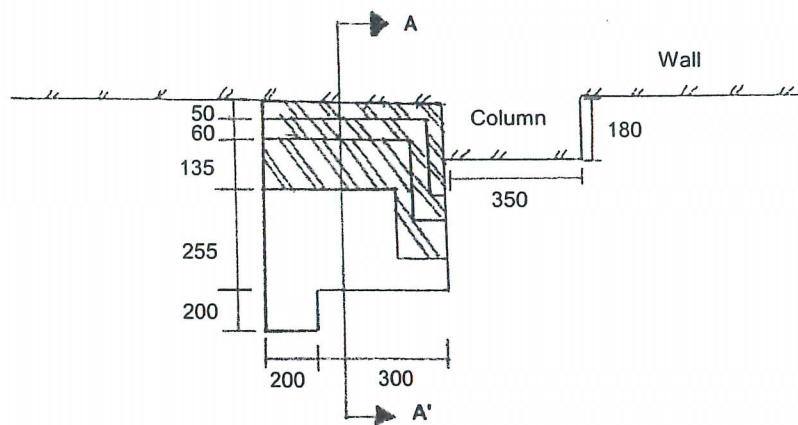
Location

Dates  
16/11/2010

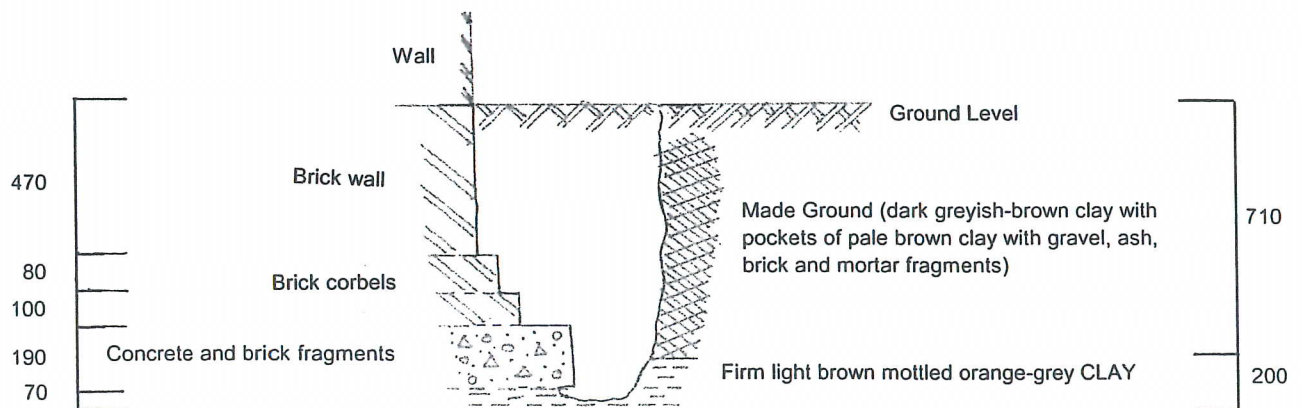
Engineer  
Brod Wight Associates

Sheet  
1 / 1

## PLAN



## SECTION A - A'



Remarks:

All dimensions in millimetres

Groundwater was not encountered

Scale:

1:20

Logged by:

HD



**Site** 8 Pilgrims Lane, Hampstead, London, NW3 1SL**Client** Mrs Abiola**Engineer** Brod Wight Architects**Job Number**  
J10228**Sheet**  
5/5

View of the footings encountered in Trial Pit No 5, looking south (16/11/2010)

PROJECT NAME

8 PILGRIMS LANE, HAMPSTEAD, LONDON NW3 1SL

PROJECT NO:

J10228

DATE

20/12/2010

APPROVED

J Sturges

PAGE

1 of 2

Sample details		Classification Tests				Density Tests		Undrained Triaxial Compression Tests			Chemical Tests				Other tests and comments
Borehole No.	Depth (m)	MC (%)	LL (%)	PL (%)	PI	<425 mic (%)	Bulk (Mg/m³)	Dry (Mg/m³)	Cell Pressure (kPa)	Deviator Stress (kPa)	Shear Stress (kPa)	pH	2:1 W/S SO4 (g/l)	Ground Water SO4 (g/l)	
BH1	2.50	42	78	30	48	100									
BH1	3.00	32					1.90	1.44	60	105	53				
BH1	5.00	31	64	27	37	100	1.95	1.49	100	144	72				
BH1	7.50	29					1.97	1.52	150	123	62				
BH1	10.00	31	71	28	43	100									
BH1	10.50	28					1.98	1.55	210	148	74				
BH1	13.50	30					1.97	1.52	270	131	65				
BH1	16.50	30					1.95	1.50	330	162	81				
BH1	16.95	31	74	29	45	100									
BH2	1.20											7.8	0.15		
BH3	0.85	35	72	30	42	99									
BH3	1.80	28	58	24	34	100									

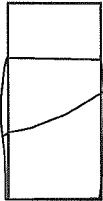


BS1377 : Part 7 : Clause 8 : 1990  
**Quick Undrained Triaxial Test**

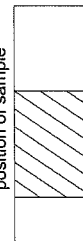
Borehole Number: BH1  
 Sample Number: U6  
 Depth (m): 3.00

Description:  
 Firm fissured brown CLAY becoming  
 sandy with depth

**Single Stage Specimen**

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	201.9
Diameter (mm):	102.1
Moisture Content (%):	32
Bulk Density (Mg/m³):	1.90
Dry Density (Mg/m³):	1.44
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	1.1
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	60
Strain at failure (%):	19.8
Maximum Deviator Stress (kPa):	105
Shear Stress $\tau_c$ (kPa):	53
Mode of failure:	

Orientation and  
position of sample



**Checked and  
Approved**

Initials:

*JS*

Date: 20/12/2010

Project Number:

**GEO / 16395**

Project Name:

**8 PILGRIMS LANE, HAMPSTEAD, LONDON NW3 1SL**

**J10228**




**GEOLABS®**

BS1377 : Part 7 : Clause 8 : 1990  
**Quick Undrained Triaxial Test**

Borehole Number: BH1  
 Sample Number: U10  
 Depth (m): 5.00

Description:  
 Firm fissured and laminated brown CLAY with some  
 silt and fine sand on fissured surfaces

**Single Stage Specimen**

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.5
Diameter (mm):	102.4
Moisture Content (%):	31
Bulk Density (Mg/m <sup>3</sup> ):	1.95
Dry Density (Mg/m <sup>3</sup> ):	1.49
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.6
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	100
Strain at failure (%):	8.9
Maximum Deviator Stress (kPa):	144
Shear Stress Cu (kPa):	72
Mode of failure:	

Orientation and  
position of sample



**Checked and  
Approved**

Initials:

*JS*

Date: 20/12/2010

Project Number:

**GEO / 16395**

Project Name:

**8 PILGRIMS LANE, HAMPSTEAD, LONDON NW3 1SL**

**J10228**



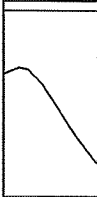
**GEOLABS®**

BS1377 : Part 7 : Clause 8 : 1990  
**Quick Undrained Triaxial Test**

Borehole Number: BH1  
 Sample Number: U14  
 Depth (m): 7.50

Description:  
 Stiff fissured grey CLAY

**Single Stage Specimen**

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.8
Diameter (mm):	101.3
Moisture Content (%):	29
Bulk Density (Mg/m <sup>3</sup> ):	1.97
Dry Density (Mg/m <sup>3</sup> ):	1.52
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.3
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	150
Strain at failure (%):	3.2
Maximum Deviator Stress (kPa):	123
Shear Stress $\sigma_v$ (kPa):	62
Mode of failure:	

Orientation and  
position of sample



Checked and  
Approved

Initials:

*JS*

Date: 20/12/2010

Project Number:

**GEO / 16395**

Project Name:

**8 PILGRIMS LANE, HAMPSTEAD, LONDON NW3 1SL**

**J10228**



**GEOLABS®**

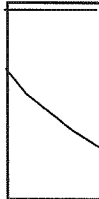


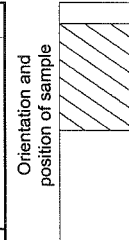
BS1377 : Part 7 : Clause 8 : 1990  
**Quick Undrained Triaxial Test**

Borehole Number: BH1  
 Sample Number: U18  
 Depth (m): 10.50

Description:  
 Firm fissured grey CLAY with rare pyrite nodules

**Single Stage Specimen**

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.2
Diameter (mm):	101.5
Moisture Content (%):	28
Bulk Density (Mg/m <sup>3</sup> ):	1.98
Dry Density (Mg/m <sup>3</sup> ):	1.55
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.2
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	210
Strain at failure (%):	2.0
Maximum Deviator Stress (kPa):	148
Shear Stress $\tau_c$ (kPa):	74
Mode of failure:	



**Checked and  
Approved**

Initials:

*JS*

Date: 20/12/2010

Project Number:

**GEO / 16395**

Project Name:

**8 PILGRIMS LANE, HAMPSTEAD, LONDON NW3 1SL**

**J10228**




**GEOLABS®**

BS1377 : Part 7 : Clause 8 : 1990  
**Quick Undrained Triaxial Test**

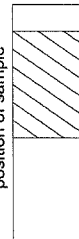
Borehole Number: BH1  
 Sample Number: U22  
 Depth (m): 13.50

Description:  
 Stiff fissured grey CLAY

**Single Stage Specimen**

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.0
Diameter (mm):	101.6
Moisture Content (%):	30
Bulk Density (Mg/m <sup>3</sup> ):	1.97
Dry Density (Mg/m <sup>3</sup> ):	1.52
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.3
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	270
Strain at failure (%):	4.0
Maximum Deviator Stress (kPa):	131
Shear Stress $\sigma_v$ (kPa):	65
Mode of failure:	

Orientation and  
position of sample



**Checked and  
Approved**

Initials:

*JS*

Date: 20/12/2010

Project Number:

**GEO / 16395**

Project Name:

**8 PILGRIMS LANE, HAMPSTEAD, LONDON NW3 1SL**

**J10228**




**GEOLABS®**

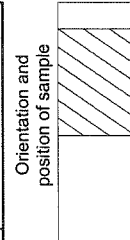
BS1377 : Part 7 : Clause 8 : 1990  
**Quick Undrained Triaxial Test**

Borehole Number: BH1  
 Sample Number: U26  
 Depth (m): 16.50

Description:  
 Stiff fissured grey CLAY with rare pyrite nodules

**Single Stage Specimen**

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.0
Diameter (mm):	101.7
Moisture Content (%):	30
Bulk Density (Mg/m <sup>3</sup> ):	1.95
Dry Density (Mg/m <sup>3</sup> ):	1.50
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.6
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	330
Strain at failure (%):	8.9
Maximum Deviator Stress (kPa):	162
Shear Stress Cu (kPa):	81
Mode of failure:	



**Checked and Approved**

Initials:

*JS*

Date: 20/12/2010

Project Number:

**GEO / 16395**

Project Name:

**8 PILGRIMS LANE, HAMPSTEAD, LONDON NW3 1SL**

**J10228**



**GEOLABS®**

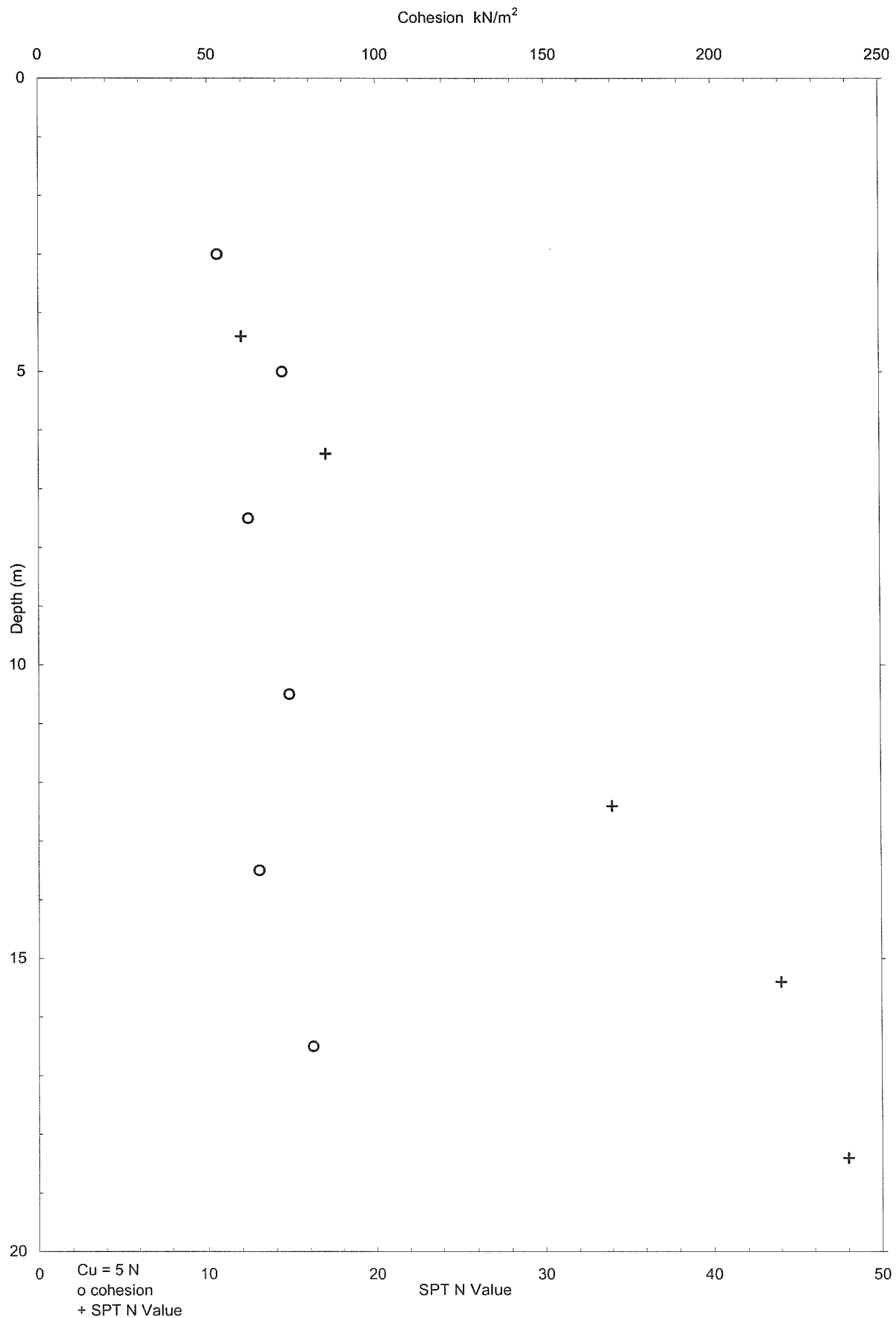
**Site** 8 Pilgrims Lane, Hampstead, London, NW3 1SL

**Job Number**  
J10228

**Client** Mrs Abiola

**Sheet**  
1 / 1

**Engineer** Brod Wight Associates



**Site** 8 Pilgrim's Lane, Hampstead, London, NW3 1SL

**Client** Mrs Abiola

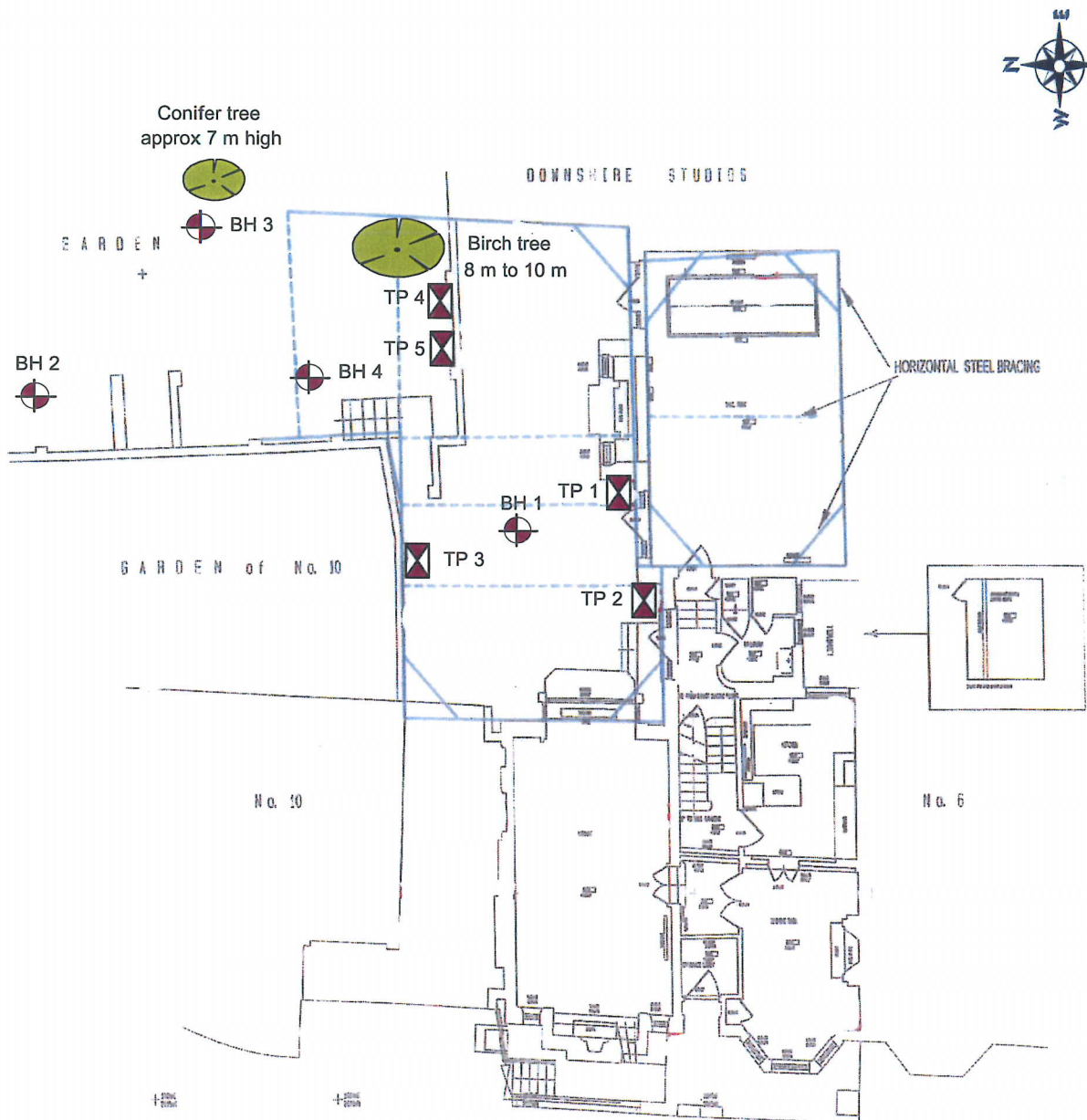
**Engineer** Brod Wight Architects

**Job Number**

J10228

**Sheet**

1 / 1



Approximate Scale in metres



Geotechnical & Environmental Associates (GEA)  
is an engineer-led and client-focused  
independent specialist providing a complete  
range of geotechnical and contaminated land  
investigation, analytical and consultancy services  
to the property and construction industries.

We have offices at

Tyttenhanger House  
Coursers Road  
St Albans  
AL4 0PG  
tel 01727 824666  
mail@gea-ltd.co.uk



and

Church Farm  
Gotham Road  
Kingston on Soar  
Notts  
NG11 0DE  
tel 01509 674888  
midlands@gea-ltd.co.uk



Enquiries can also be made on-line at  
[www.gea-ltd.co.uk](http://www.gea-ltd.co.uk)  
where information can be found  
on all of the services that we offer.