Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Site Plan

Site Wallace House, Fitzroy Park, London, N6 6HT

Client Derrick and Claire Dale

Engineer Elliott Wood

Job Number J17111

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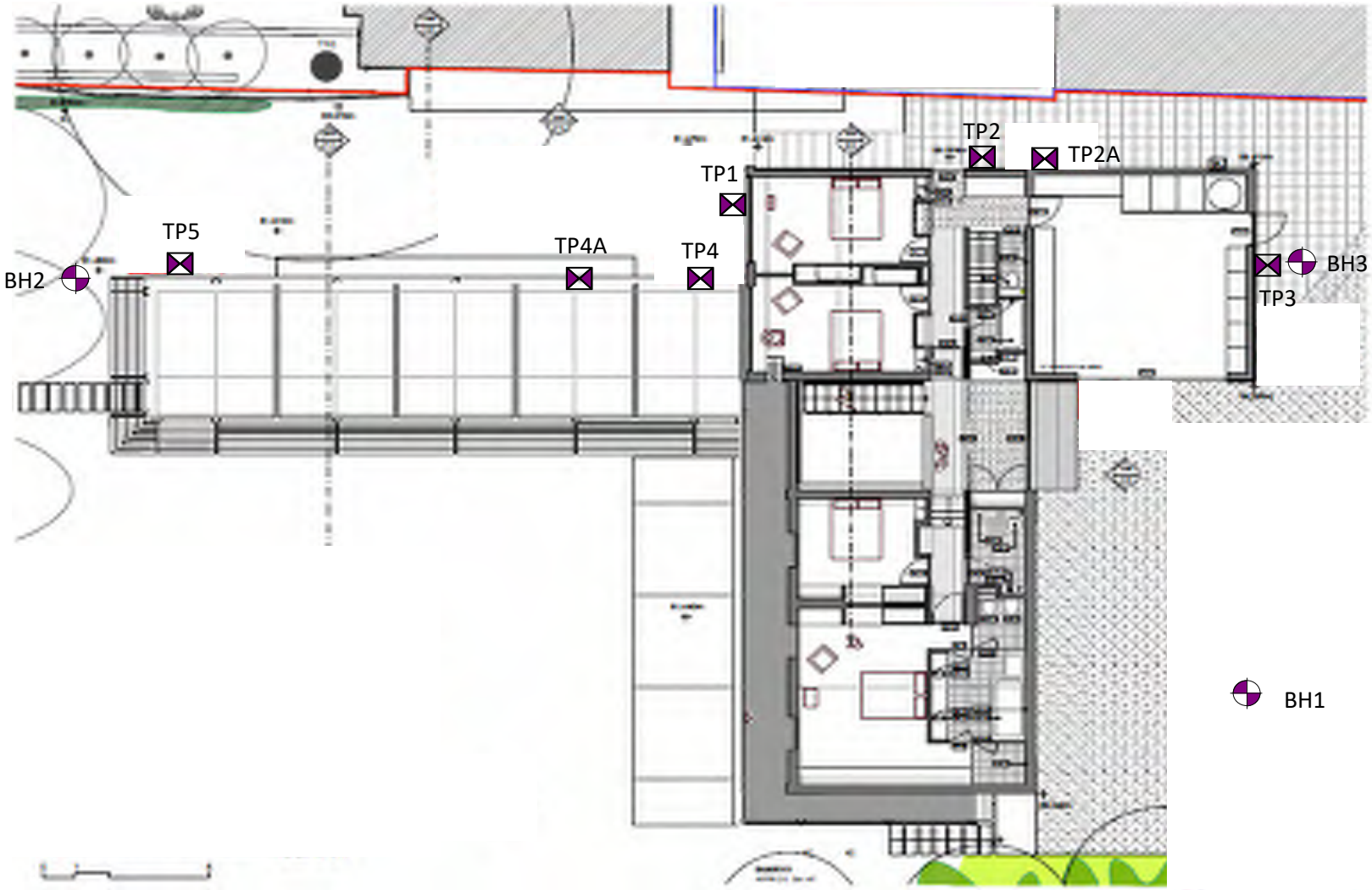

Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Wallace House, Fitzroy Park, London N6 6HT	**Borehole Number** **BH1**

Boring Method	**Casing Diameter**	**Ground Level (mOD)**	**Client**	**Job Number**
Cable Percussion	150 mm to 1.5 m	83.20	Derrick and Claire Dale	J17111
	Location On driveway	**Dates** 11/05/2017	**Engineer** Elliott Wood	**Sheet** 1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				Tarmac (macadar)	83.05	(0.15) 0.15	MADE GROUND (macadam, 70 mm thick, overlying concrete)		
0.40	D1			roadstone & concrete			MADE GROUND (greyish brown silty sandy clay with flint, coal, ash, brick and concrete)		
0.80	D2					(1.15)			
1.20-1.65 1.20-1.65	SPT(C) N=6 B3	1.20	DRY	1,0/1,2,1,2	81.90	1.30	Firm becoming stiff fissured medium strength becoming high strength brown mottled orange-brown silty sandy CLAY with frequent pale blueish grey partings, occasional selenite, mica and carbonaceous material and dark red staining towards the base. Pockets of orange sand and selenite common around 2.60 m and 4.50 m. Rootlets noted to a depth of 4.70 m		
1.80	D4			fill, brick & concrete, rubble, ashes & brown CLAY					
2.00 2.00-2.45	D5 SPT N=10	1.50	DRY	1,2/2,2,3,3					
2.60	D6								
3.00-3.45	U7								
3.50	D8						Medium subrounded claystone fragment observed at 3.50 m		
3.80	D9								
4.00-4.45 4.00	SPT N=10 D10	1.50	DRY	1,2/2,2,3,3		(5.40)			
4.70	D11								
5.00-5.45	U12								
5.50	D13								
6.00-6.45 6.00	SPT N=16 D14	1.50	DRY	2,2/3,4,4,5					
6.90	D15				76.50	6.70	Stiff fissured high strength brownish grey silty sandy CLAY with carbonaceous material, mica, rare off-white shell fragments and occasional pale grey fine sand and silt partings		
7.50-7.95	U16			Firm, stiff brown CLAY with crystals & occasional grey workings and roots noticed to 5.0m					
8.00	D17								
9.00-9.45 9.00	SPT N=19 D18	1.50	DRY	3,4/4,5,5,5		(4.30)			

Remarks
Hand-dug starter pit to a depth of 1.2 m (75 minutes)
Groundwater not encountered during drilling
Standpipe installed to a depth of 6.00 m
Groundwater has been measured at depths of 3.75 m on 17/05/2017, 1.26 m on 01/06/2017, 0.84 m on 14/06/2017 and 1.14 m on 27/06/2017

Scale (approx)	**Logged By**
1:50	CP/HD

Figure No.
J17111.BH1

Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware,Herts
SG12 7QE

Site
Wallace House, Fitzroy Park, London N6 6HT

Borehole Number
BH1

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	150 mm to 1.5 m	83.20	Derrick and Claire Dale	J17111

Location	Dates	Engineer	Sheet
On driveway	11/05/2017	Elliott Wood	2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	D19								
11.00	D20				72.20	11.00	Stiff fissured high strength grey silty CLAY with occasional black carbonaceous material/staining and frequent mica		
12.00-12.45 12.00	SPT N=26 D21	1.50	DRY	4,5/6,6,7,7		(4.00)			
13.50-13.95	U22								
14.00	D23								
14.50-14.95 14.50	SPT N=29 D24	1.50	DRY	5,6/6,7,8,8					
				Stiff grey occasionally silty CLAY	68.20	15.00	Complete at 15.00m		

Remarks
Hand-dug starter pit to a depth of 1.2 m (75 minutes)
Groundwater not encountered during drilling
Standpipe installed to a depth of 6.00 m
Groundwater has been measured at depths of 3.75 m on 17/05/2017, 1.26 m on 01/06/2017, 0.84 m on 14/06/2017 and 1.14 m on 27/06/2017

Scale (approx)	Logged By
1:50	CP/HD

Figure No.
J17111.BH1

Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Wallace House, Fitzroy Park, London N6 6HT	**Number** **BH2**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
Open-drive sampler	118mm to 1.00m	81.40	Derrick and Claire Dale	J17111
	Location Southwest of pool house	**Dates** 09/05/2017	**Engineer** Elliott Wood	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40	D1				(0.82)	MADE GROUND (brown silty sand with rare flint gravel, shell fragments and cobbles of concrete, brick fragments, rootlets and rare ash. Hessian bag encountered at a depth of 0.60 m)		
				80.58	0.82			
					(0.33)	Soft orange-brown mottled grey silty CLAY with dead roots and decayed rootlets - reworked texture		
				80.25	1.15			
1.20	D2		(PP) 0.75			Firm brown mottled grey silty CLAY with occasional fine selenite crystals, rare fine claystones and rare partings of orange-brown fine sand and silt and rootlets. Rootlets noted to a depth of 2.40 m - reworked texture		
1.20-1.65	SPT N=8	DRY	1,1/2,2,2,2					
1.50	D3		(PP) 1.25					
1.80	D4		(PP) 2.25			...with occasional coarse selenite crystals		
					(1.55)			
2.00-2.45	SPT N=13	DRY	2,1/3,3,3,4					
2.10	D5		(PP) 2.25					
2.40	D6		(PP) 2.50			...becoming siltier		
				78.70	2.70			
2.70	D7		(PP) 2.00			Firm brown mottled grey silty fissured CLAY with occasional fine selenite crystals, rare fine claystones and rare partings of orange-brown fine sand and silt and decayed rootlets		
3.00-3.45	SPT N=11	DRY	1,2/2,3,3,3		(0.70)			
3.10	D8		(PP) 1.50			...pocket of yellow fine sand and silt at 3.10 m		
3.40	D9		(PP) 2.50	78.00	3.40	Stiff brown mottled grey silty fissured CLAY with occasional selenite crystals and rare partings of orange-brown fine sand and silt. Decayed rootlets noted to a depth of 4.00 m		
					(0.60)			
3.70	D10		(PP) 3.00					
4.00	D11		(PP) 3.50	77.40	4.00	Stiff brown silty fissured CLAY with selenite crystals and occasional partings of orange-brown fine sand and silt and specklings of mica. Between 6.30 m and 6.32 m, band of soft brown silt		
4.00-4.45	SPT N=18	DRY	2,3/4,4,4,6					
4.30	D12		(PP) 2.50			...pocket of bluish green and yellow fine sand and silt at 4.00 m		
4.60	D13		(PP) 4.00					
4.90	D14		(PP) 3.00					
5.00-5.45	SPT N=19	DRY	2,3/4,5,5,5					
					(2.40)			
5.20	D15							
5.50	D16							
5.80	D17							
6.00-6.45	SPT N=18	DRY	2,3/4,4,5,5					
6.10	D18		Water strike(1) at 6.20m.					▽1
6.40	D19			75.00	6.40	Stiff grey silty fissured CLAY with occasional partings of light grey fine sand and silt		
6.70	D20							
					(1.05)			
7.00-7.45	SPT N=20	DRY	2,3/4,5,5,6					
7.00	D21							
				73.95	7.45	Complete at 7.45m		

Remarks
Standpipe installed to a depth of 5.00 m - response zone from 1.00 m to 5.00 m
PP denotes pocket penetrometer reading
Groundwater has been measured at depths of 3.63 m on 10/05/2017, 1.85 m on 17/05/2017, 1.73 m on 14/06/2017 and 1.79 m on 27/06/2017

Scale (approx)	**Logged By**
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Figure No.
J17111.BH2

Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Wallace House, Fitzroy Park, London N6 6HT	**Number** **BH3**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
Open-drive sampler	118mm to 1.00m	83.40	Derrick and Claire Dale	J17111
	Location North of existing garage	**Dates** 09/05/2017	**Engineer** Elliott Wood	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				83.32	0.08	MADE GROUND (paving slab, 50 mm thick, over sand sub-base)		
0.30	D1				(0.37)			
				82.95	0.45	MADE GROUND (brown silty sand with cobbles of concrete and brick)		
				82.83	0.57			
0.60	D2				(0.20)			
0.80	D3			82.63	0.77	MADE GROUND (brown mottled orange-brown clay with fine rootlets)		
				82.50	(0.13) 0.90			
1.00-1.45	SPT N=10	DRY	1,2/2,3,2,3	82.40	1.00	MADE GROUND (black silty clay with fine rootlets, decaying wood and fragments of red brick)		
1.30	D4		(PP) 1.50					
					(1.00)	MADE GROUND (greyish brown silty clay with rare flint gravel and fragments of brick and ash)		
1.60	D5		(PP) 1.50					
1.90	D6		(PP) 2.00			MADE GROUND (orange-brown mottled light grey silty clay with fragments of brick)		
2.00-2.45	SPT N=12	DRY	2,2/2,3,3,4	81.40	2.00			
2.20	D7		(PP) 1.50			Firm brown mottled grey silty CLAY with rootlets - reworked texture		
					(0.80)			
2.50	D8		(PP) 2.25			Firm brown mottled grey silty fissured CLAY with occasional partings of orange-brown fine sand and silt and selenite crystals. Live rootlets noted to 2.7 m		
2.80	D9		(PP) 2.50	80.60	2.80			
3.00-3.45	SPT N=13	DRY	2,3/2,3,4,4			Stiff brown mottled grey silty fissured CLAY with occasional partinngs of orange-brown fine sand and silt and selenite crystals. Dead rootlets noted to 2.90 m		
3.10	D10		(PP) 2.00					
3.40	D11		(PP) 2.50					
3.70	D12		(PP) 2.50					
					(2.40)			
4.00	D13		(PP) 1.75					
4.00-4.45	SPT N=12	DRY	2,1/2,3,3,4					
4.30	D14		(PP) 2.25					
4.60	D15		(PP) 2.75					
4.90	D16		(PP) 3.25					
5.00-5.45	SPT N=18	DRY	2,2/4,4,4,6					
5.00	D17			78.20	5.20	Stiff brown silty fissured CLAY with partings of orange-brown fine sand and silt		
					(0.50)			
5.50	D18			77.70	5.70	Stiff grey silty fissured CLAY with abundant partings of dark grey fine sand and silt. Soft grey silt encountered between 7.23 m and 7.28 m		
6.00-6.45	SPT N=20	DRY	3,3/4,5,5,6					
6.00	D19							
6.50	D20				(1.75)			
7.00-7.45	SPT N=23	DRY	2,3/5,5,6,7					
7.00	D21		Water strike(1) at 7.20m.					▽1
				75.95	7.45	Complete at 7.45m		

Remarks
Standpipe installed to a depth of 6.00 m - response zone from 1.00 m to 6.00 m
PP denotes pocket penetrometer reading
Groundwater has been measured at depths of 5.55 m on 10/05/2017, 2.64 m on 17/05/2017, 3.28 m on 01/06/2017 and 2.61 m on 14/06/2017 and 2.27 m on 27/06/2017

Scale (approx)	**Logged By**
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Figure No.
J17111.BH3

Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware,Herts
SG12 7QE

Standard Penetration Test Results

Site : 86a Chiltern Street, London W1U 5AL

Client : Starbright W1 Limited

Engineer : Price & Myers

Job Number J17126

Sheet 1 / 1

Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH1	1.20	1.35	1.65	CPT	2	5	3	1	5	3	N=12	
BH1	2.00	2.15	2.45	CPT	2	1	3	2	3	2	N=10	
BH1	3.00	3.15	3.45	CPT	1	3	1	2	2	4	N=9	
BH1	4.00	4.15	4.45	CPT	5	4	5	6	8	11	N=30	
BH1	5.00	5.15	5.45	CPT	6	6	8	8	7	7	N=30	
BH1	6.50	6.65	6.95	CPT	6	7	6	6	7	7	N=26	
BH1	8.00	8.15	8.45	CPT	5	4	4	3	5	6	N=18	
BH1	11.00	11.15	11.45	SPT	3	5	6	6	6	7	N=25	
BH1	14.00	14.15	14.45	CPT	10	10	7	6	7	7	N=27	
BH1	17.00	17.15	17.45	SPT	3	6	7	8	8	9	N=32	
BH1	19.55	19.70	20.00	SPT	6	7	7	8	8	9	N=32	

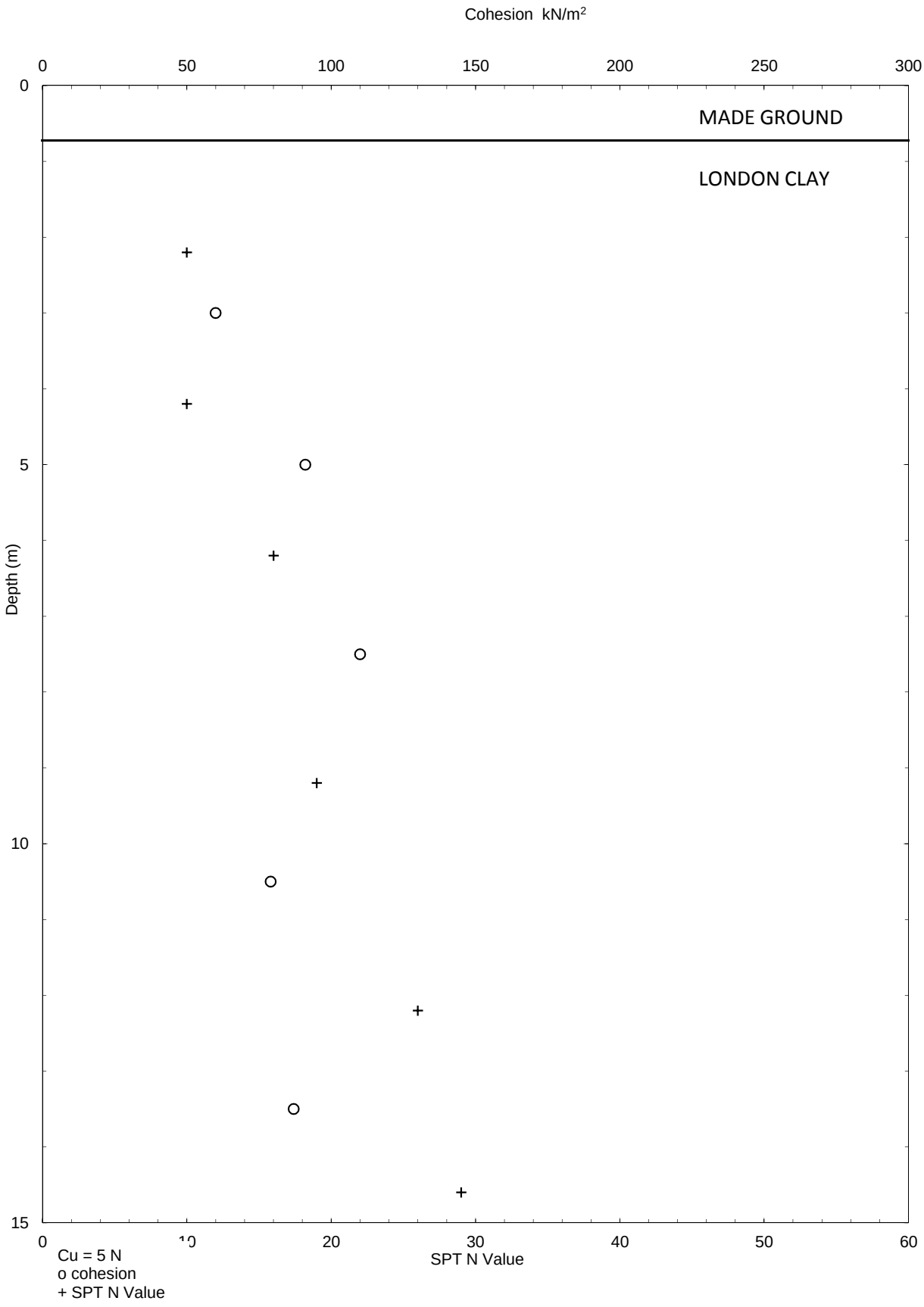
Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

SPT & Cohesion / Depth Graph

Site	Wallace House, Fitzroy Park, London N6 6HT
Client	Derrick & Claire Dale
Engineer	Elliott Wood

Job Number J17111

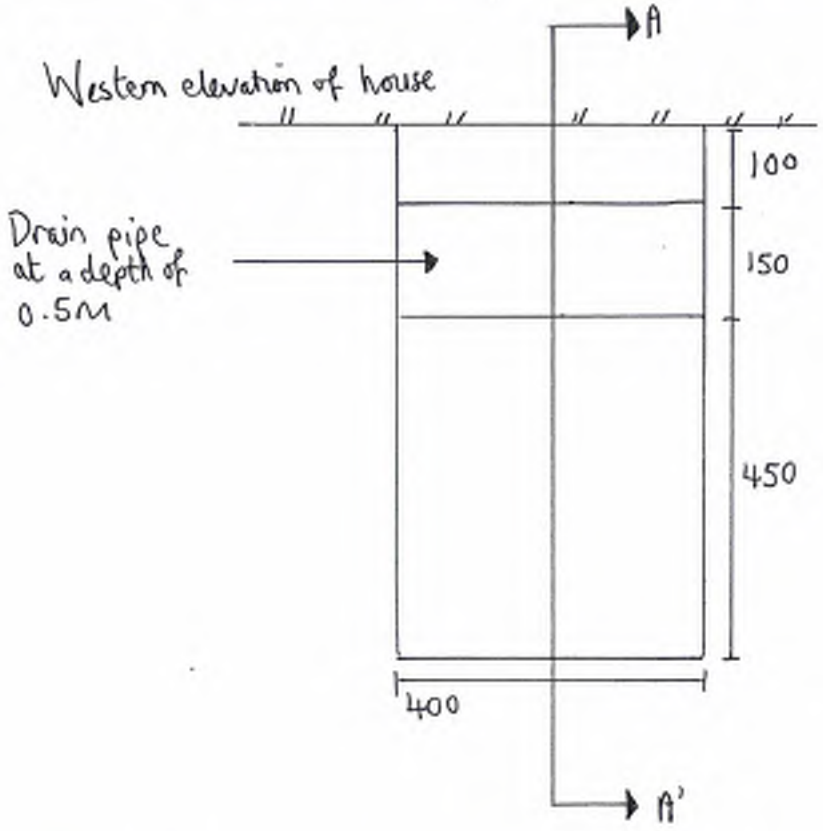
Sheet 1/1



GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 1

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Manual	400 x 700 x 700	81.47	Derrick and Claire Dale	J17111
	Location	**Dates**	**Engineer**	**Sheet**
		10/05/2017	Elliott Wood	

PLAN

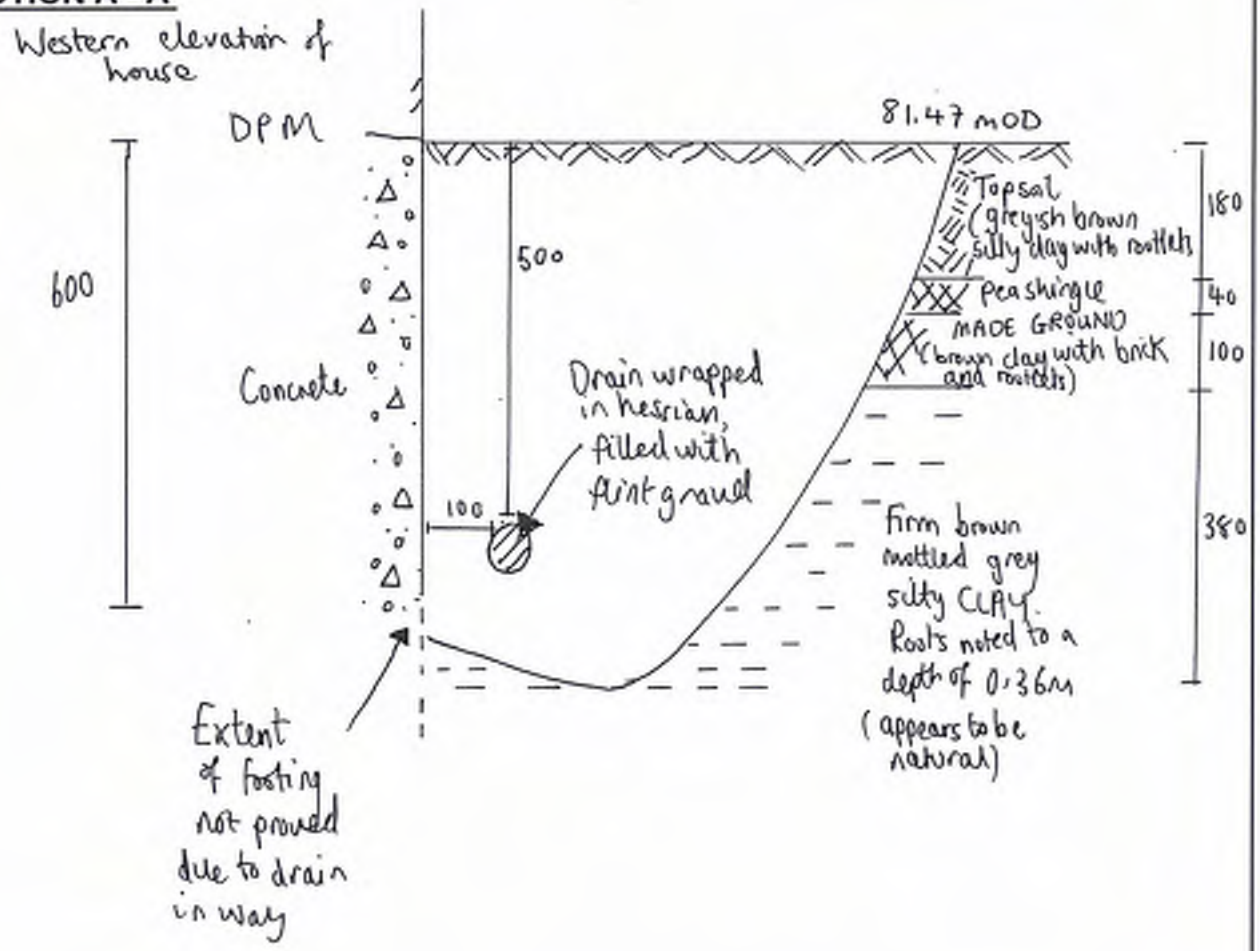


Drain wrapped in hessian, filled with coarse flint gravel which keeps collapsing

Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn, Widbury Hill, Ware, Herts SG12 7QE	Site: Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number: 1
Excavation Method: Manual	**Dimensions:** 400 x 700 x 700	**Ground Level (mOD):** 81.47	**Client:** Derrick and Claire Dale	**Job Number:** J17111
	Location:	**Dates:** 10/05/2017	**Engineer:** Elliott Wood	**Sheet:**

SECTION A - A'

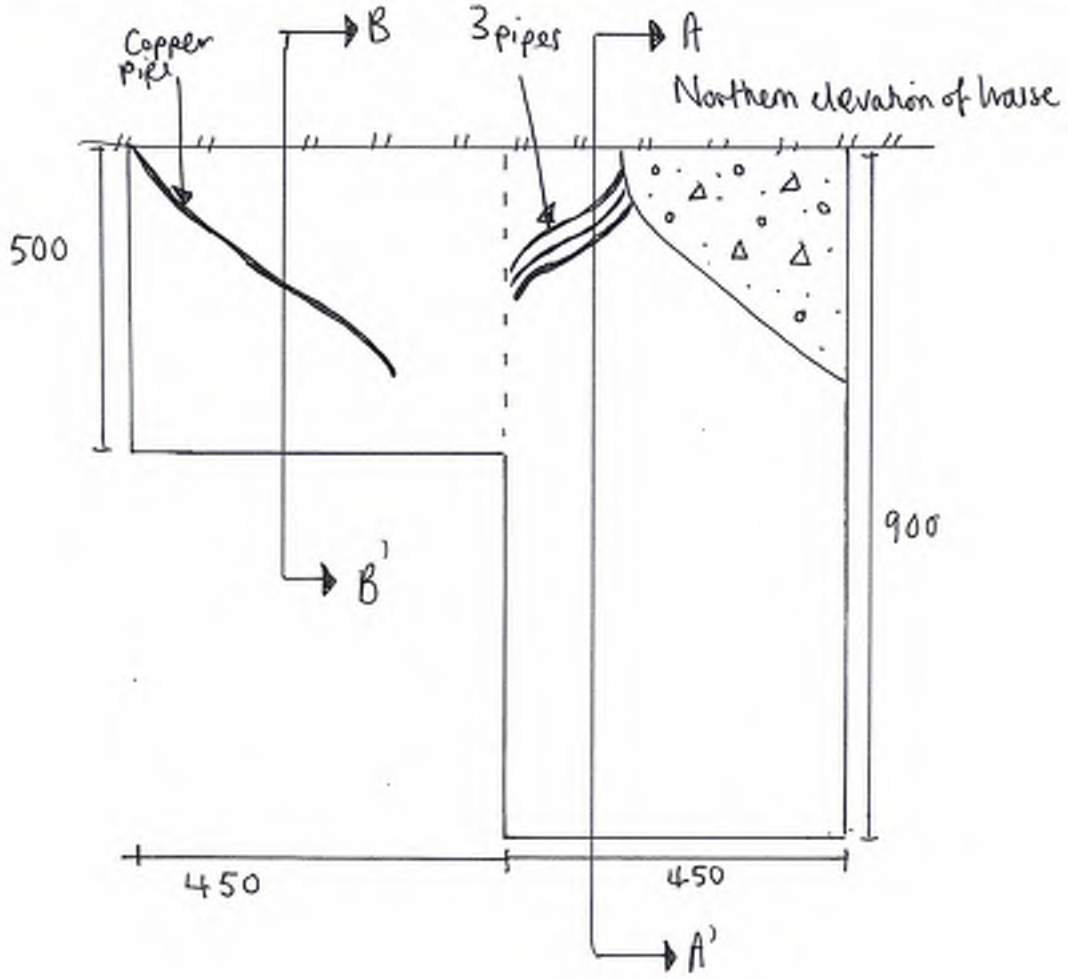


Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 2

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Manual	900 x 1000 x 920	83.195	Derrick and Claire Dale	J17111
	Location	**Dates**	**Engineer**	**Sheet**
		10/05/2017	Elliott Wood	

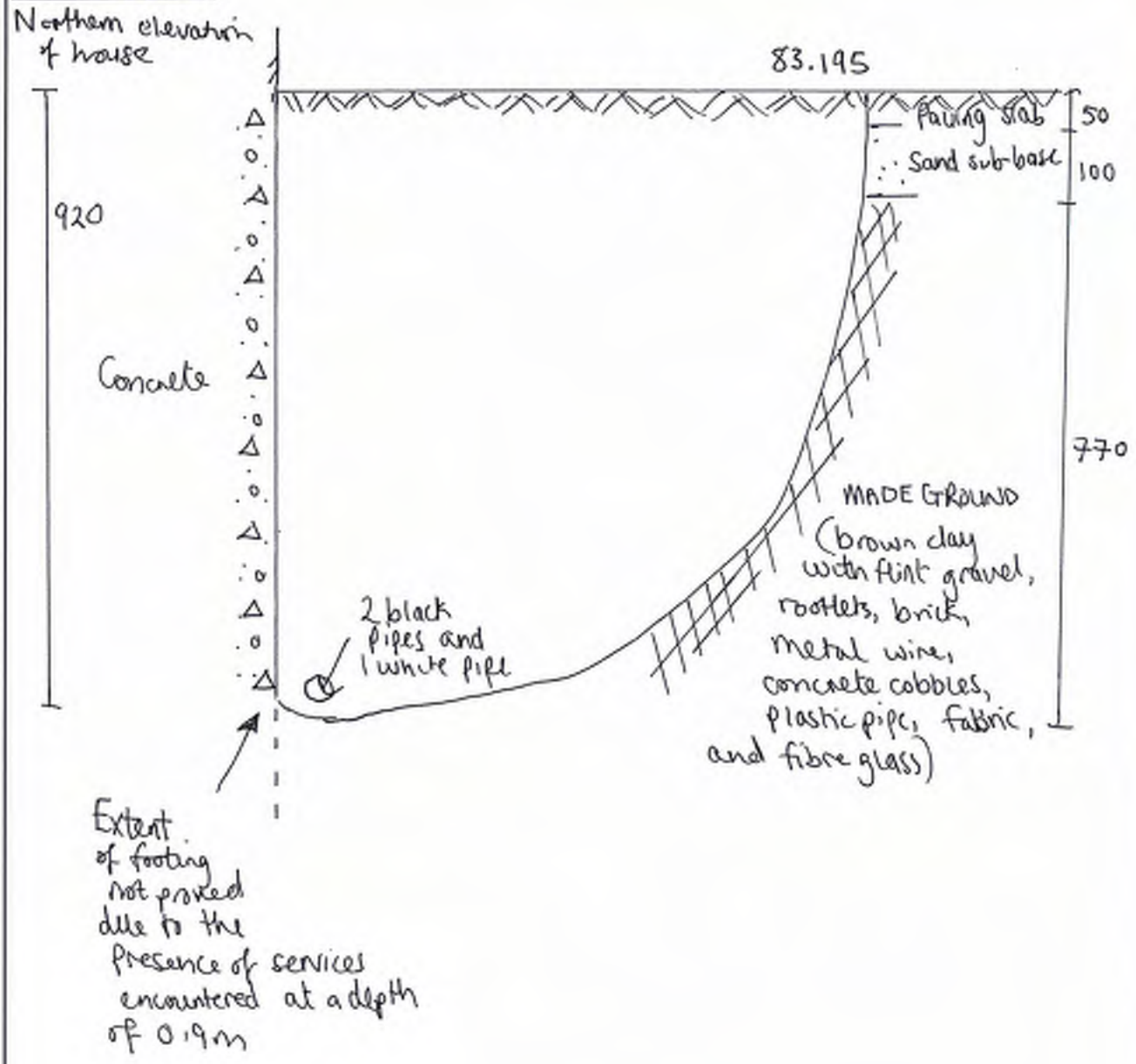
PLAN



Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 2
Excavation Method Manual	**Dimensions** 900 x 1000 x 920	**Ground Level (mOD)** 83.195	**Client** Derrick and Claire Dale	**Job Number** J17111
	Location	**Dates** 10/05/2017	**Engineer** Elliott Wood	**Sheet**

SECTION A - A'

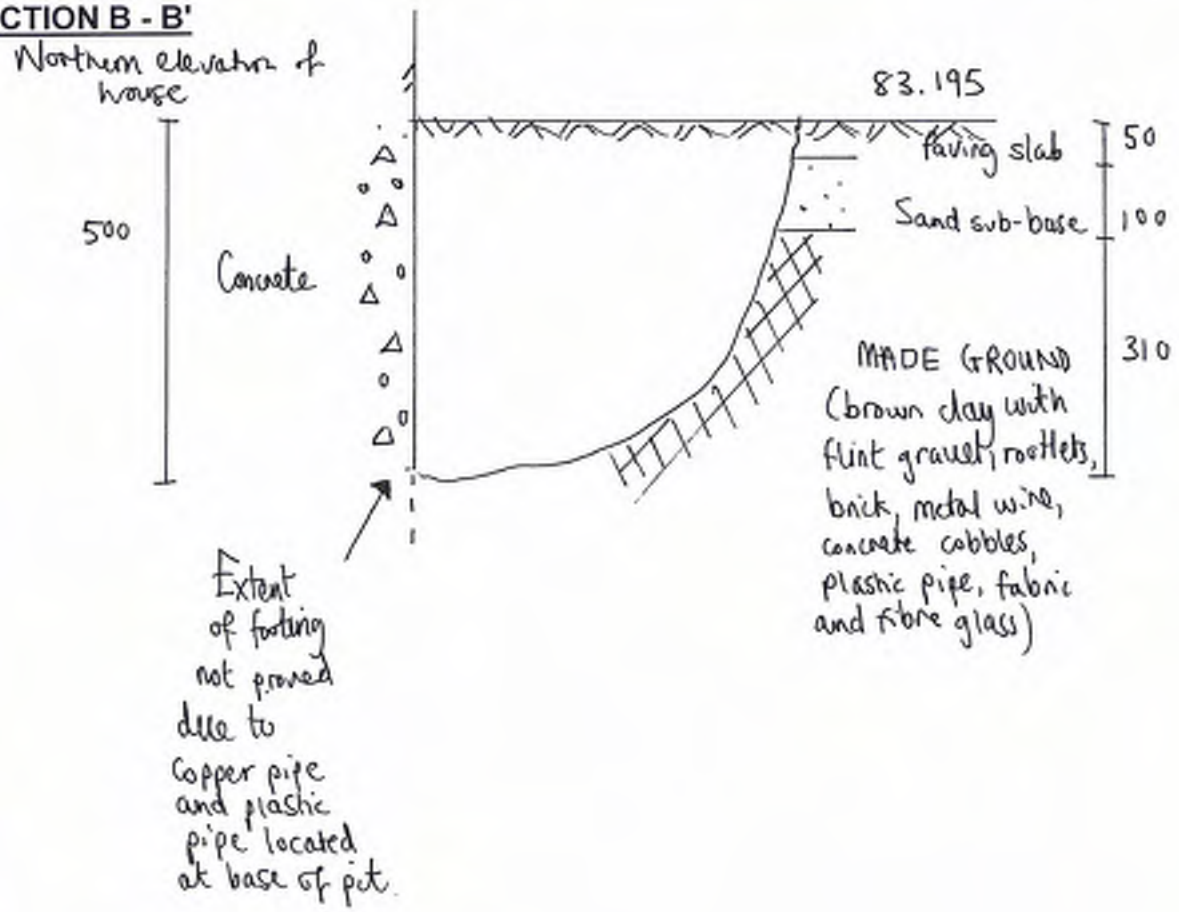


Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 2

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Manual	900 x 1000 x 920	83.195	Derrick and Claire Dale	J17111
	Location	**Dates**	**Engineer**	**Sheet**
		10/05/2017	Elliott Wood	

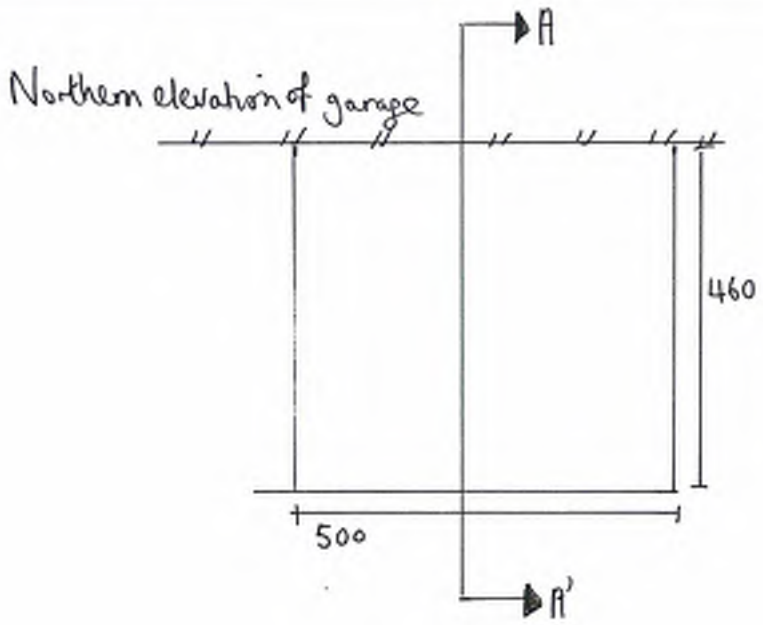
SECTION B - B'



Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** Wallace House, Fitzroy Park, London, N6 6HT	**Trial Pit Number** 2A
Excavation Method Manual	**Dimensions** 500 x 460 x 690	**Ground Level (mOD)** 83.195	**Client** Derrick and Claire Dale	**Job Number** J17111
	Location	**Dates** 10/05/2017	**Engineer** Elliott Wood	**Sheet**

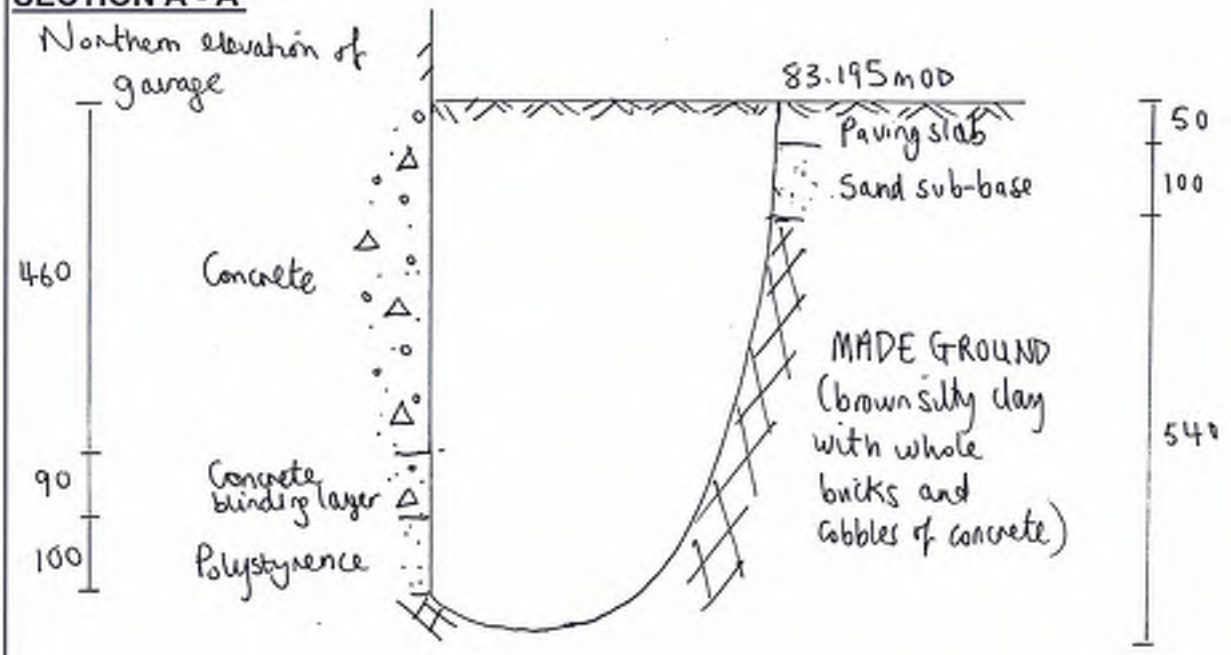
PLAN



Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn, Widbury Hill, Ware, Herts SG12 7QE	Site: Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number: 2A
Excavation Method: Manual	Dimensions: 500 x 460 x 690	Ground Level (mOD): 83.195	Client: Derrick and Claire Dale
Job Number: J17111	Location:	Dates: 10/05/2017	Engineer: Elliott Wood
Sheet:			

SECTION A - A'

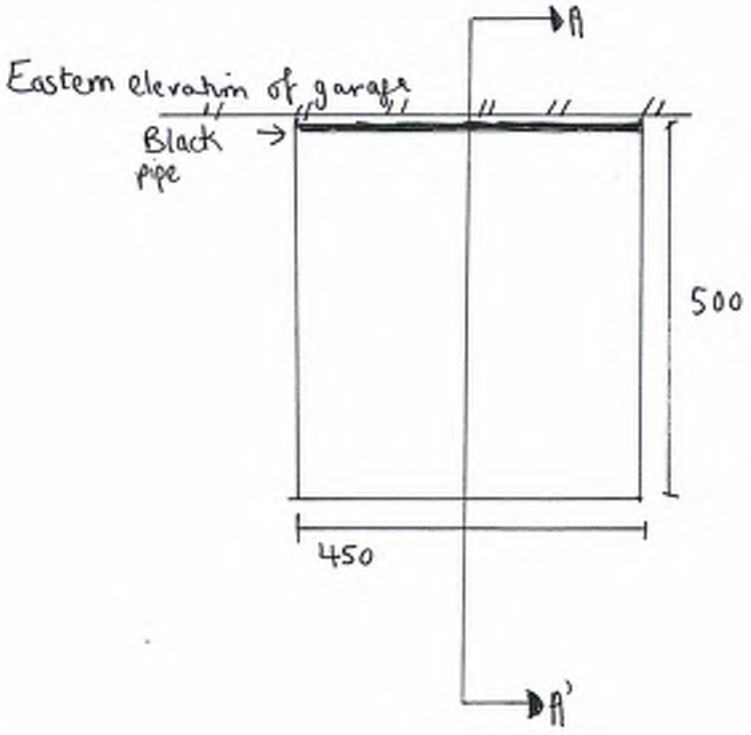


Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 3

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Manual	500 x 450 x 1000	83.415	Derrick and Claire Dale	J17111
	Location	**Dates**	**Engineer**	**Sheet**
		10/05/2017	Elliott Wood	

PLAN

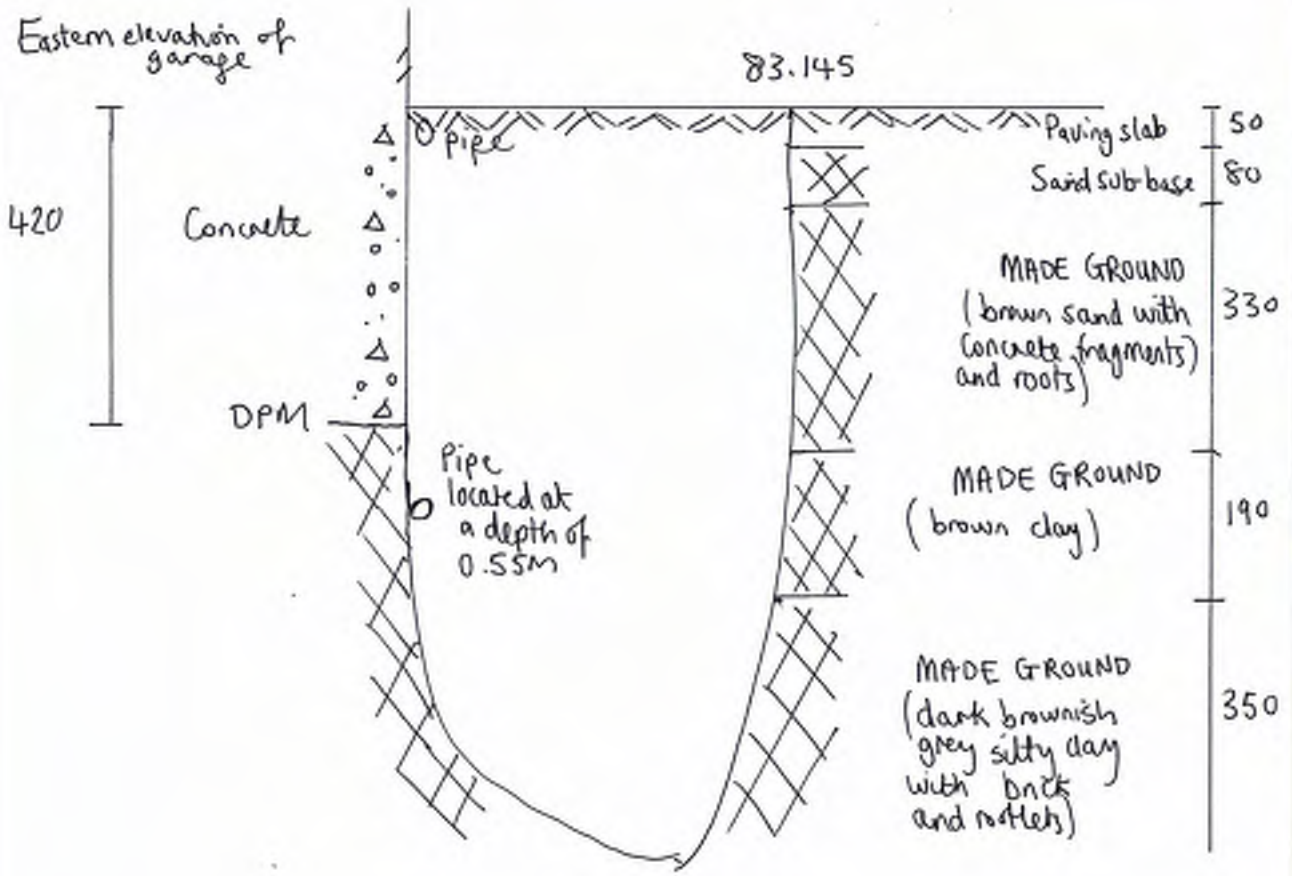


Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 3

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Manual	500 x 450 x 1000	83.145	Derrick and Claire Dale	J17111
	Location	Dates	Engineer	Sheet
		10/05/2017	Elliott Wood	

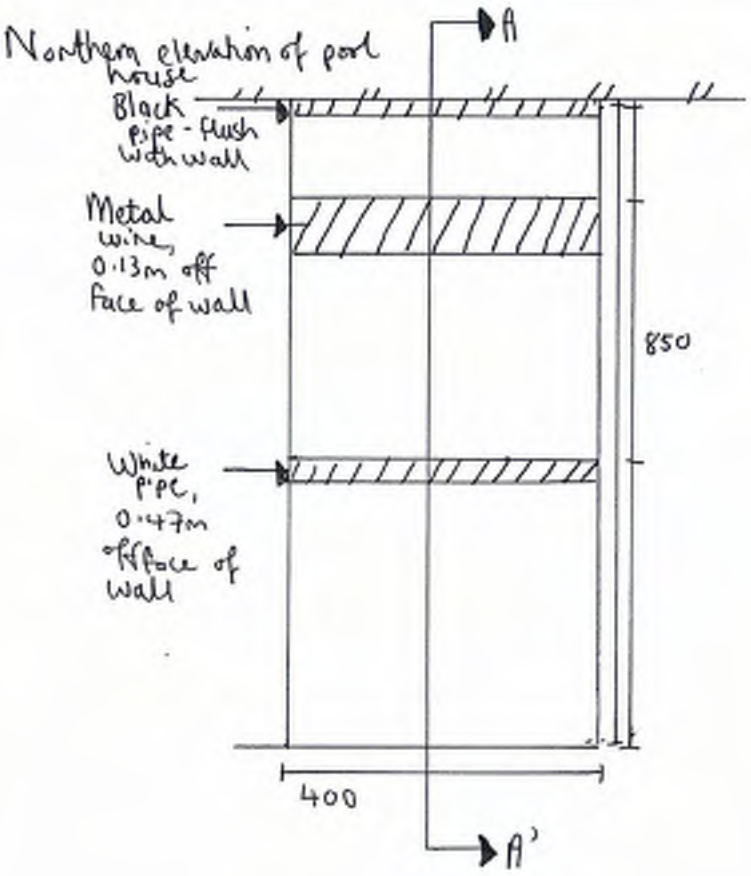
SECTION A - A'



Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 4
Excavation Method Manual	**Dimensions** 400 x 850 x 320	**Ground Level (mOD)** 81.47	**Client** Derrick and Claire Dale	**Job Number** J17111
	Location	**Dates** 10/05/2017	**Engineer** Elliott Wood	**Sheet**

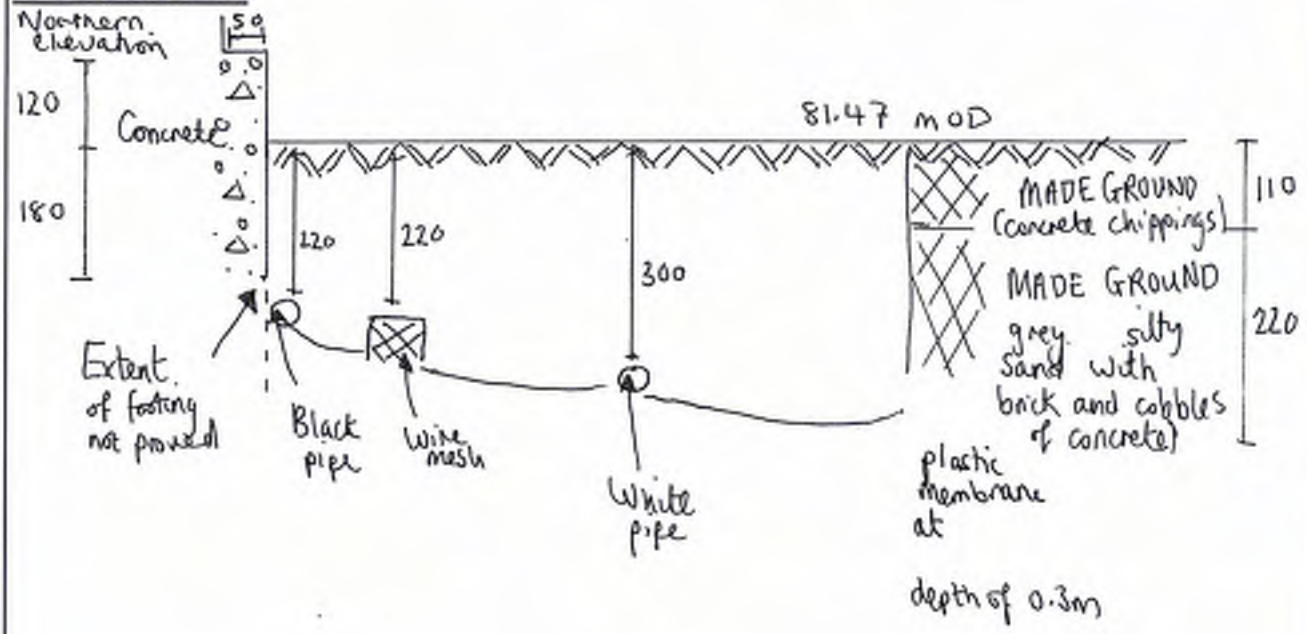
PLAN



Remarks: All dimensions in millimetres Sides of trial pit remained stable during excavation Groundwater: Not encountered	Scale: 1:10 Logged by: HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 4
Excavation Method Manual	**Dimensions** 400 x 850 x 320	**Ground Level (mOD)** 81.47	**Client** Derrick and Claire Dale	**Job Number** J17111
	Location	**Dates** 10/05/2017	**Engineer** Elliott Wood	**Sheet**

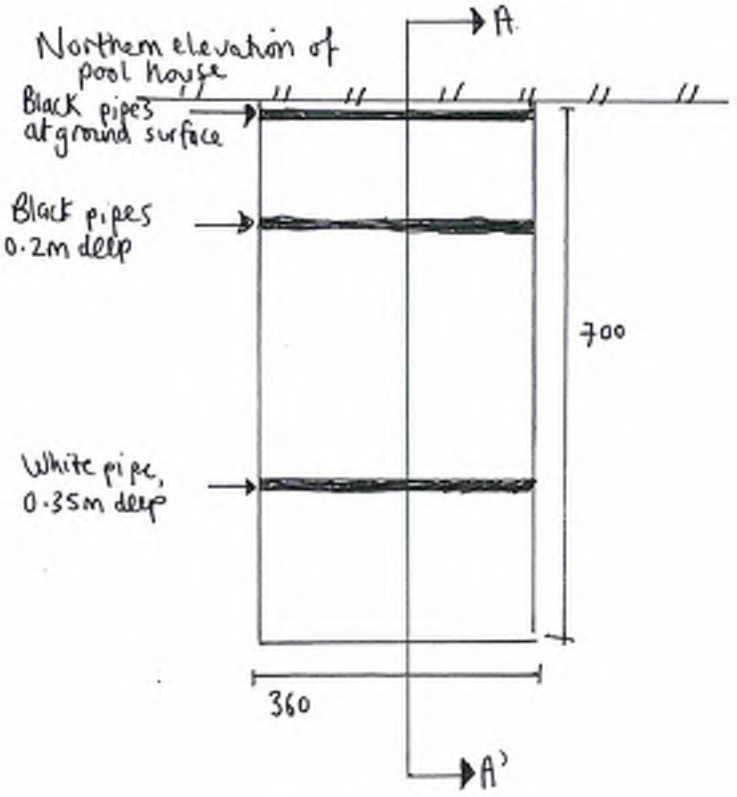
SECTION A - A'



Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** Wallace House, Fitzroy Park, London, N6 6HT	**Trial Pit Number** 4A
Excavation Method Manual	**Dimensions** 360 x 700 x 380	**Ground Level (mOD)** 81.47	**Client** Derrick and Claire Dale	**Job Number** J17111
	Location	**Dates** 10/05/2017	**Engineer** Elliott Wood	**Sheet**

PLAN

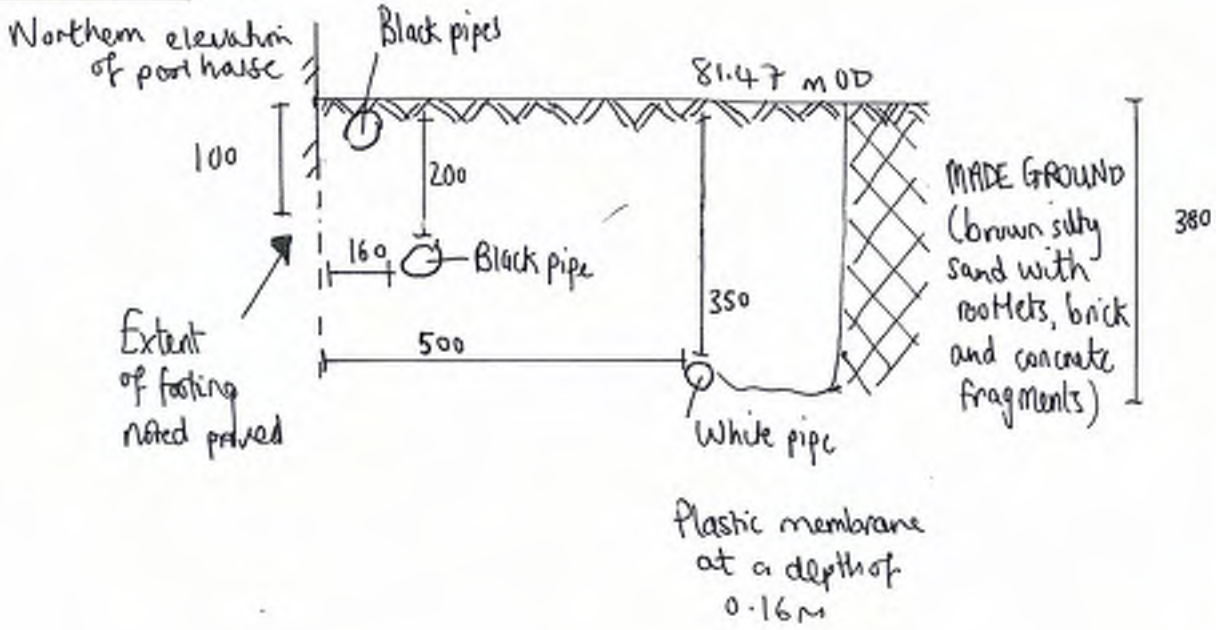


Remarks: All dimensions in millimetres Sides of trial pit remained stable during excavation Groundwater: Not encountered	Scale: 1:10 Logged by: HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 4A

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Manual	380 x 700 x 380	81.47	Derrick and Claire Dale	J17111
	Location	**Dates**	**Engineer**	**Sheet**
		10/05/2017	Elliott Wood	

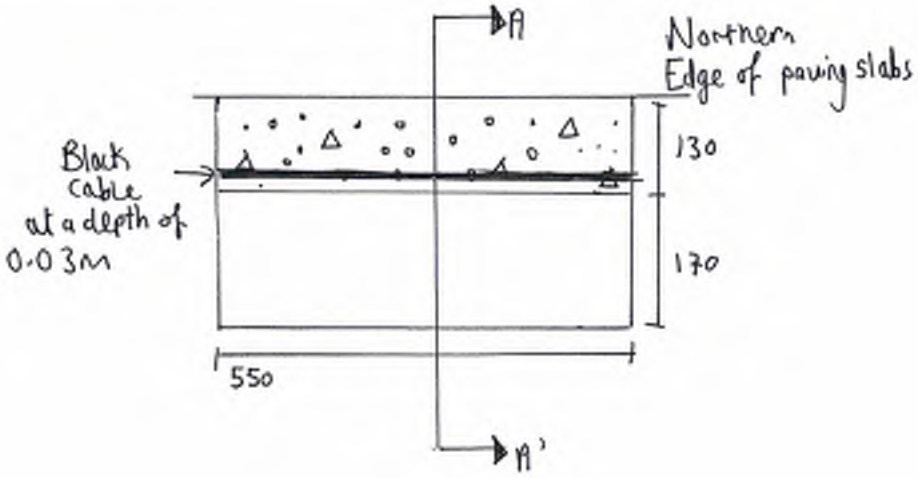
SECTION A - A'



Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained stable during excavation	Logged by:
Groundwater: Not encountered	HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 5
Excavation Method Manual	**Dimensions** 550 x 300 x 270	**Ground Level (mOD)** 81.485	**Client** Derrick and Claire Dale	**Job Number** J17111
	Location	**Dates** 10/05/2017	**Engineer** Elliott Wood	**Sheet**

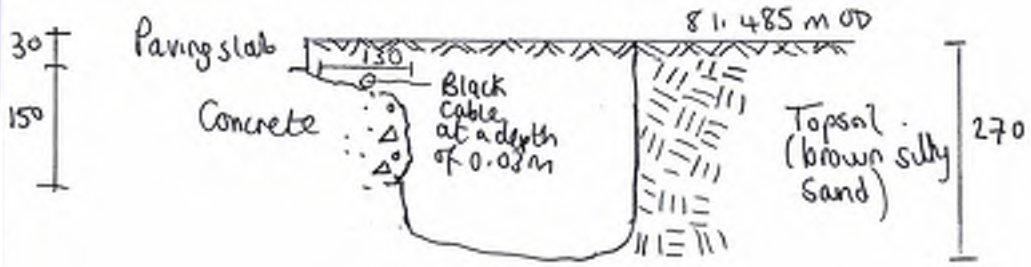
PLAN



Remarks: All dimensions in millimetres Sides of trial pit remained stable during excavation Groundwater: Not encountered	Scale: 1:10 Logged by: HD

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Wallace House, Fitzroy Park, London, N6 6HT	Trial Pit Number 5
Excavation Method Manual	**Dimensions** 550 x 300 x 270	**Ground Level (mOD)** 81.485	**Client** Derrick and Claire Dale	**Job Number** J17111
	Location	**Dates** 10/05/2017	**Engineer** Elliott Wood	**Sheet**

SECTION A - A'



Remarks: All dimensions in millimetres Sides of trial pit remained stable during excavation Groundwater: Not encountered	Scale: 1:10 Logged by: HD

Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Trial Pit No 1

Site	Wallace House, Fitzroy Park, London, N6 6HT
Client	Derrick and Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet

Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Trial Pit No 2

Site	Wallace House, Fitzroy Park, London, N6 6HT
Client	Derrick and Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet

Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Trial Pit No 2A

Site Wallace House, Fitzroy Park, London, N6 6HT

Client Derrick and Claire Dale

Engineer Elliott Wood

Job Number J17111

Sheet

Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Trial Pit No 3

Site	Wallace House, Fitzroy Park, London, N6 6HT
Client	Derrick and Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet

Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Trial Pit No 4

Site	Wallace House, Fitzroy Park, London, N6 6HT
Client	Derrick and Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet

GEA Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Trial Pit No 4A

Site	Wallace House, Fitzroy Park, London, N6 6HT
Client	Derrick and Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet

GEA Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Trial Pit No 5

Site	Wallace House, Fitzroy Park, London, N6 6HT
Client	Derrick and Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet

Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Borehole Rising Head Test

Site	Wallace House, Fitzroy Park, London N6 6HT
Client	Derrick & Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet 1

Borehole No: 1
Test No: 1

Date: 17 May 2017

Test Data

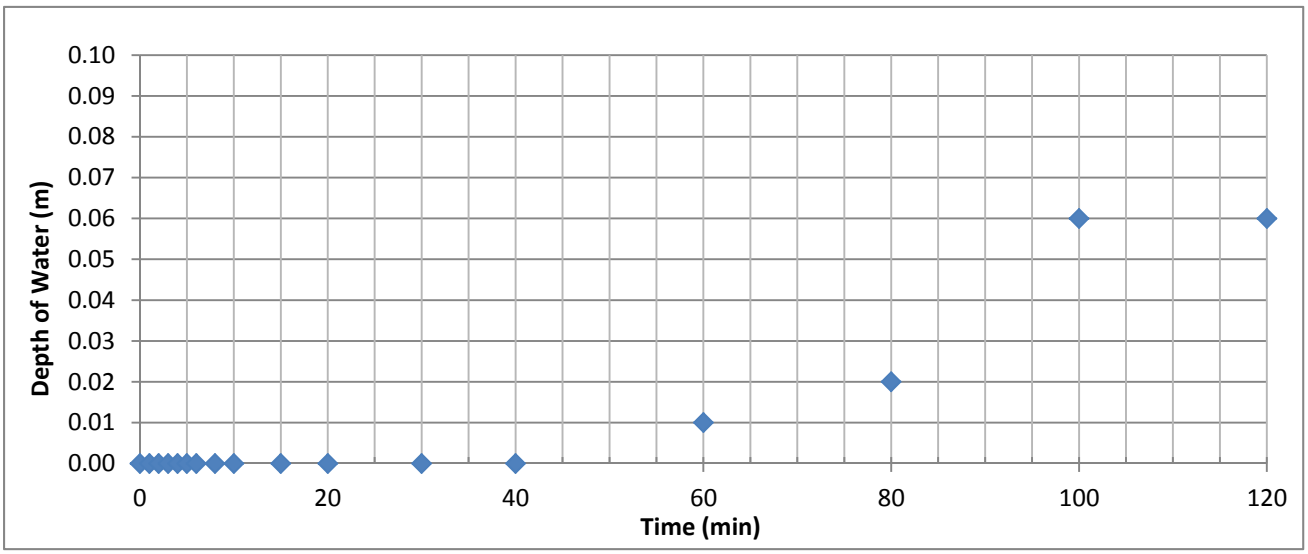
	Start of test:	End of test:
Borehole depth (m):	5.68	5.68
Casing depth (m):	0.00	0.00
Water level (m):	3.75	5.62

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	5.68	0.00
1	5.68	0.00
2	5.68	0.00
3	5.68	0.00
4	5.68	0.00
5	5.68	0.00
6	5.68	0.00
8	5.68	0.00
10	5.68	0.00
15	5.68	0.00
20	5.68	0.00
30	5.68	0.00
40	5.68	0.00
60	5.67	0.01
80	5.66	0.02
100	5.62	0.06
120	5.62	0.06

Soakage Calculation

Borehole Diameter (m)		0.100
Borehole Area (m^2)		0.008
Borehole Perimeter (m)		0.314
From Plot:	D1 (m)	0.00
	D2 (m)	0.06
	T1 (min)	40
	T2 (min)	100
Soakage Volume (m^3)		0.000
Soakage Area (m^2)		0.017
Time (min)		60

Soakage rate (m/sec)	-7.58E-06
Soakage rate (m/day)	-0.65



REMARKS

Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Borehole Rising Head Test

Site	Wallace House, Fitzroy Park, London N6 6HT
Client	Derrick & Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet 2/3

Borehole No: 2
Test No: 1

Date: 17 May 2017

Test Data

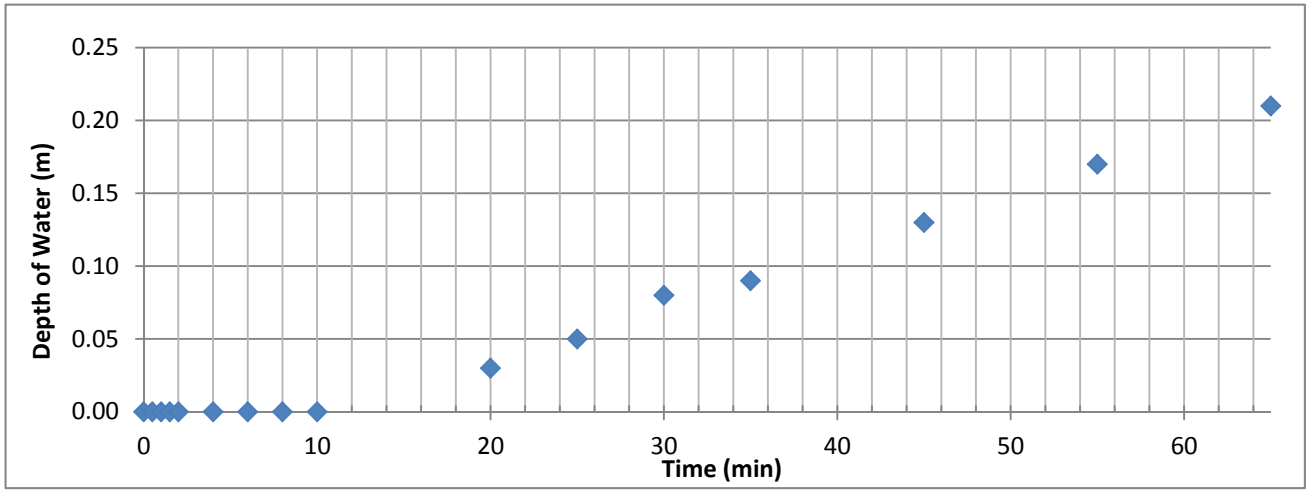
	Start of test:	End of test:
Borehole depth (m):	4.67	4.67
Casing depth (m):	0.00	0.00
Water level (m):	1.85	4.46

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	4.67	0.00
0.5	4.67	0.00
1	4.67	0.00
1.5	4.67	0.00
2	4.67	0.00
4	4.67	0.00
6	4.67	0.00
8	4.67	0.00
10	4.67	0.00
20	4.64	0.03
25	4.62	0.05
30	4.59	0.08
35	4.58	0.09
45	4.54	0.13
55	4.50	0.17
65	4.46	0.21

Soakage Calculation

Borehole Diameter (m)		0.1000
Borehole Area (m^2)		0.0079
Borehole Perimeter (m)		0.314
From Plot:	D1 (m)	0.03
	D2 (m)	0.21
	T1 (min)	20
	T2 (min)	65
Soakage Volume (m^3)		-0.001
Soakage Area (m^2)		0.05
Time (min)		45

Soakage rate (m/sec)	-1.15E-05
Soakage rate (m/day)	-0.99



REMARKS

Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Borehole Rising Head Test

Site	Wallace House, Fitzroy Park, London N6 6HT
Client	Derrick & Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet 3/3

Borehole No: 3
Test No: 1

Date: 17 May 2017

Test Data

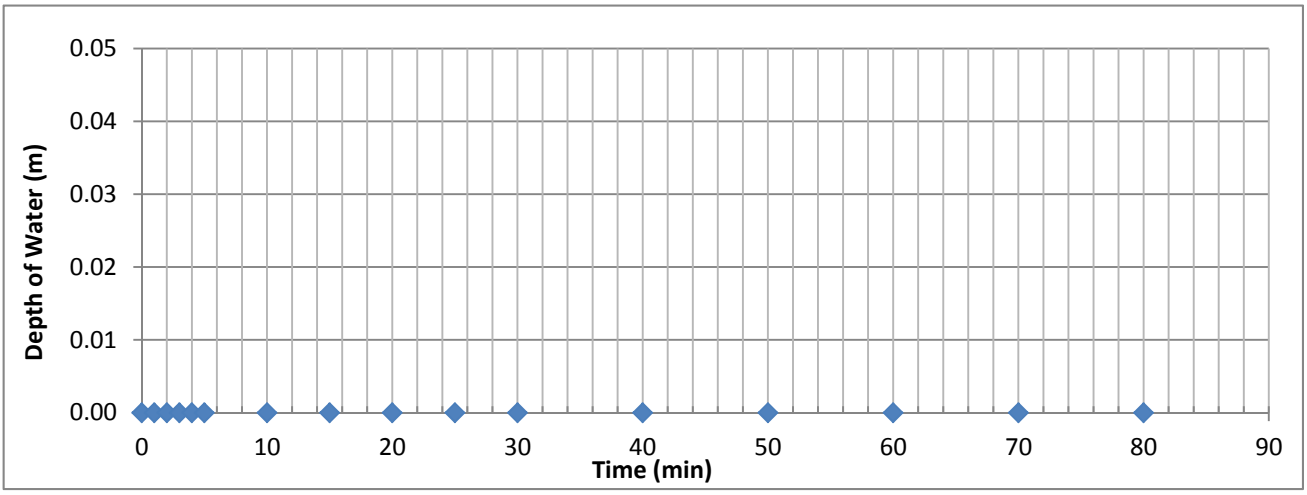
	Start of test:	End of test:
Borehole depth (m):	5.58	5.58
Casing depth (m):	0.00	0.00
Water level (m):	2.64	5.56

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	5.58	0.00
1	5.58	0.00
2	5.58	0.00
3	5.58	0.00
4	5.58	0.00
5	5.58	0.00
10	5.58	0.00
15	5.58	0.00
20	5.58	0.00
25	5.58	0.00
30	5.58	0.00
40	5.58	0.00
50	5.58	0.00
60	5.58	0.00
70	5.58	0.00
80	5.58	0.00

Soakage Calculation

Borehole Diameter (m)		0.1000
Borehole Area (m^2)		0.0079
Borehole Perimeter (m)		0.314
From Plot:	D1 (m)	0.00
	D2 (m)	0.00
	T1 (min)	0
	T2 (min)	80
Soakage Volume (m^3)		0.000
Soakage Area (m^2)		0.01
Time (min)		80

Soakage rate (m/sec)	0.00E+00
Soakage rate (m/day)	0.00



REMARKS

Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results

Job No.	Project Name	Programme	
22815	Wallace House, Fitzroy Park N6 6HT	Samples received	11/05/2017
		Schedule received	19/05/2017
Project No.	Client	Project started	22/05/2017
J17111	GEA	Testing Started	05/06/2017

Hole No.	Sample				Soil Description	NMC	Passing 425µm	LL	PL	PI	Remarks
	Ref	Top	Base	Type		%	%	%	%	%	
BH1	1	1.80	-	D	Brown silty CLAY with rare decayed roots	32	100	77	28	49	
BH2	1	1.50	-	D	Brown silty CLAY	35	100	79	29	50	
BH2	2	2.10	-	D	Brown mottled bluish grey silty CLAY with selenite crystals	32					
BH2	3	2.70	-	D	Brown mottled bluish grey silty CLAY	34					
BH2	4	3.10	-	D	Brown and occasional yellow silty CLAY	37	100	83	33	50	
BH2	5	3.70	-	D	Brown mottled bluish grey silty CLAY with selenite crystals	30					
BH2	6	4.00	-	D	Brown slightly mottled bluish grey silty CLAY with occasional selenite crystals	29	100	77	29	48	
BH2	7	4.30	-	D	Brown mottled bluish grey silty CLAY with selenite crystals	31					
BH3	3	1.60	-	D	Brown mottled pale grey silty CLAY with rare decayed roots	30	100	75	26	49	
BH3	4	2.20	-	D	Brown mottled bluish grey silty CLAY	32					
BH3	5	2.80	-	D	Brown mottled bluish grey silty CLAY with selenite crystals	33					
BH3	6	3.10	-	D	Brown, pale grey and orange mottled silty CLAY with traces of selenite crystals	32	100	76	30	46	

Test Methods: BS1377: Part 2: 1990:
Natural Moisture Content : clause 3.2
Atterberg Limits: clause 4.3, 4.4 and 5.0

Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved
Initials **J.P**
Date: 06/06/2017

Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results

Job No.	Project Name	Programme	
22815	Wallace House, Fitzroy Park N6 6HT	Samples received	11/05/2017
		Schedule received	19/05/2017
Project No.	Client	Project started	22/05/2017
J17111	GEA	Testing Started	05/06/2017

Hole No.	Sample				Soil Description	NMC	Passing 425µm	LL	PL	PI	Remarks
	Ref	Top	Base	Type		%	%	%	%	%	
BH3	7	3.70	-	D	Brown mottled bluish grey silty CLAY with selenite crystals	34					
BH3	8	4.00	-	D	Brown mottled bluish grey silty CLAY with selenite crystals	35					

Test Methods: BS1377: Part 2: 1990:
Natural Moisture Content : clause 3.2
Atterberg Limits: clause 4.3, 4.4 and 5.0

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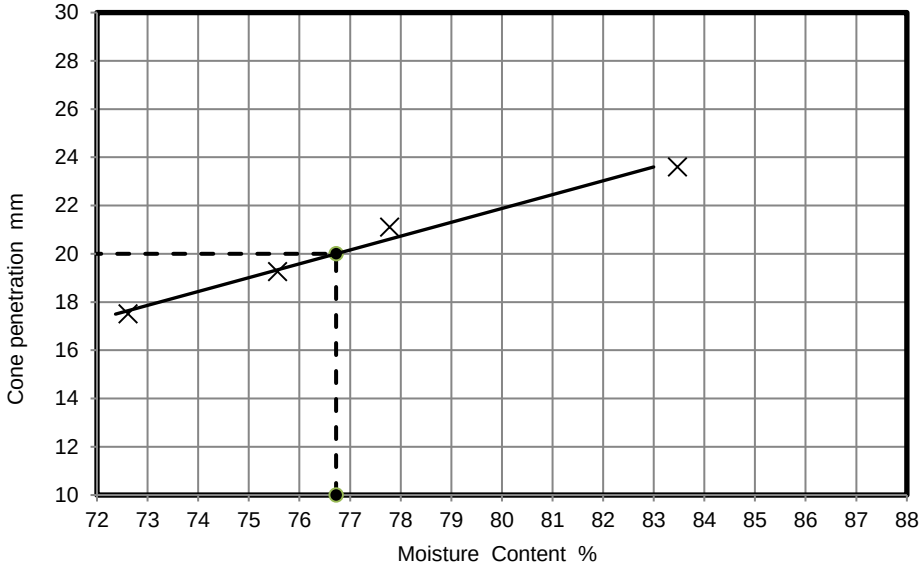
Initials **J.P**

Date: 06/06/2017

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

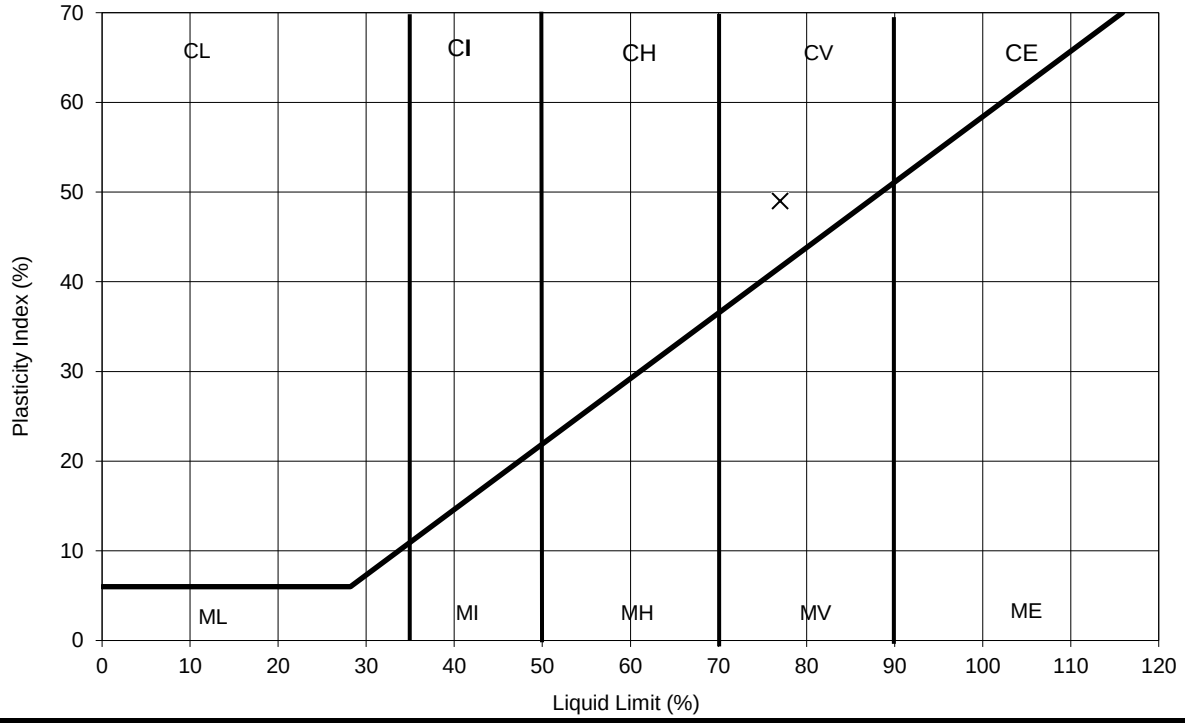
Site Name	Wallace House, Fitzroy Park N6 6HT			Job No.	22815
				Borehole/Pit No.	BH1
Project No.	J17111	Client	GEA	Sample No.	1
				Depth Top	1.80 m
Soil Description	Brown silty CLAY with rare decayed roots			Depth Base	- m
				Sample Type	D
				Samples received	11/05/2017
				Schedules received	19/05/2017
				Project Started	22/05/2017
				Date Tested	05/06/2017



NATURAL MOISTURE CONTENT	**32**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**77**	**%**
PLASTIC LIMIT	**28**	**%**
PLASTICITY INDEX	**49**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 06/06/2017

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

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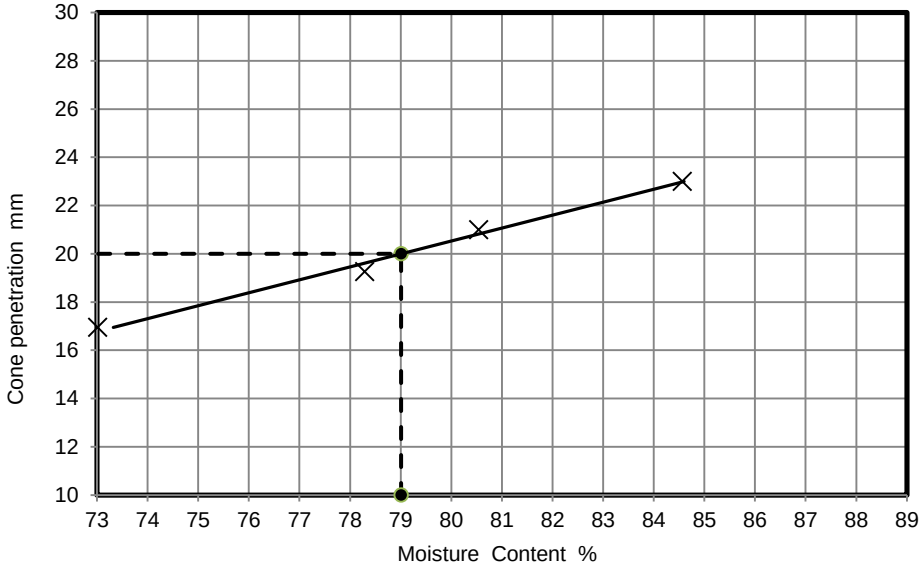
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

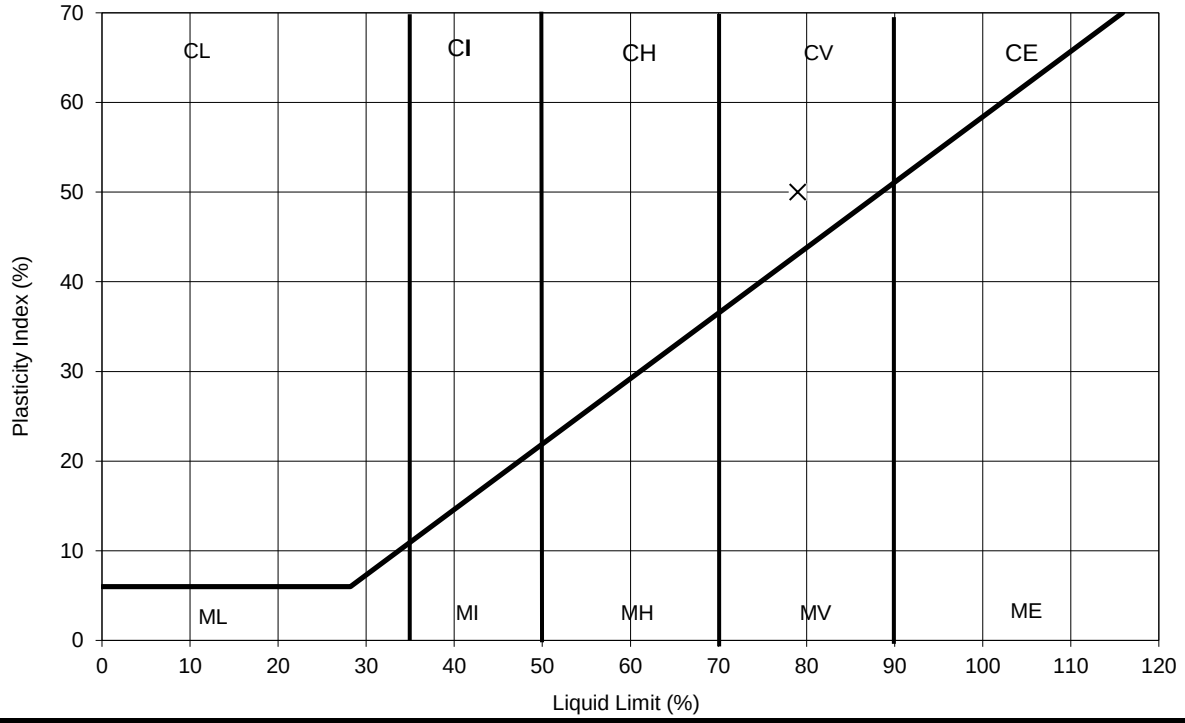
				Job No.	22815
				Borehole/Pit No.	BH2
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	1
Project No.	J17111	Client	GEA	Depth Top	1.50 m
Soil Description	Brown silty CLAY			Depth Base	- m
				Sample Type	D
				Samples received	11/05/2017
				Schedules received	19/05/2017
				Project Started	22/05/2017
				Date Tested	05/06/2017



NATURAL MOISTURE CONTENT	**35**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**79**	**%**
PLASTIC LIMIT	**29**	**%**
PLASTICITY INDEX	**50**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

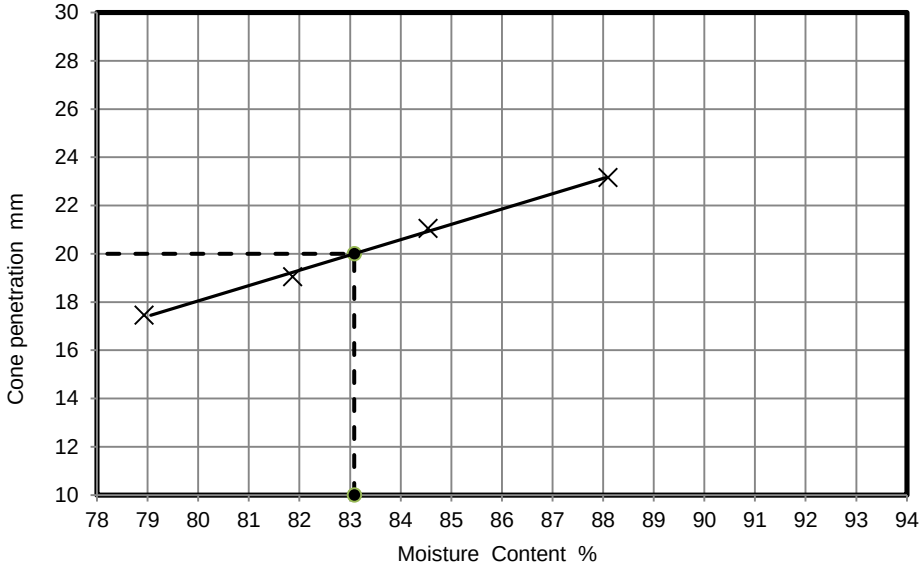
Initials: J.P
Date: 06/06/2017

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

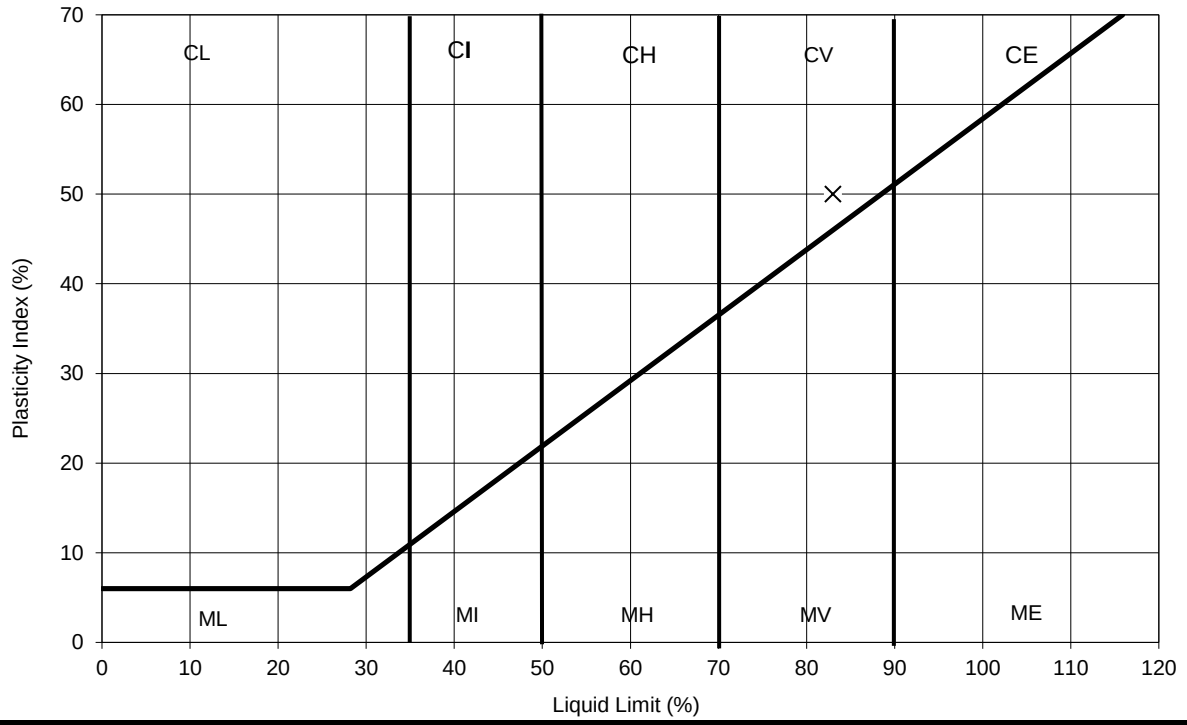
	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	22815
				Borehole/Pit No.	BH2
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	4
Project No.	J17111	Client	GEA	Depth Top	3.10 m
Soil Description	Brown and occasional yellow silty CLAY			Depth Base	- m
				Sample Type	D
				Samples received	11/05/2017
				Schedules received	19/05/2017
				Project Started	22/05/2017
				Date Tested	05/06/2017



NATURAL MOISTURE CONTENT	**37**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**83**	**%**
PLASTIC LIMIT	**33**	**%**
PLASTICITY INDEX	**50**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 06/06/2017

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

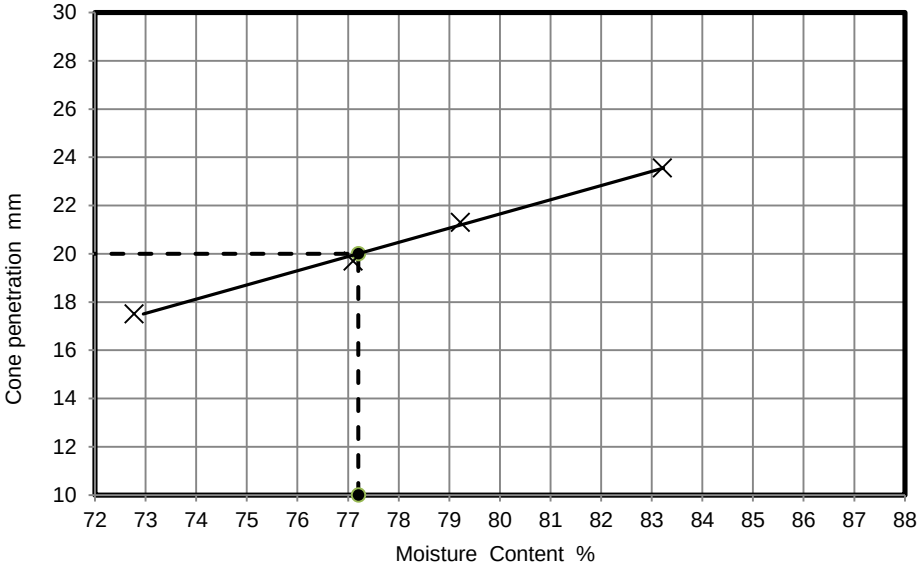
2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5 R2

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

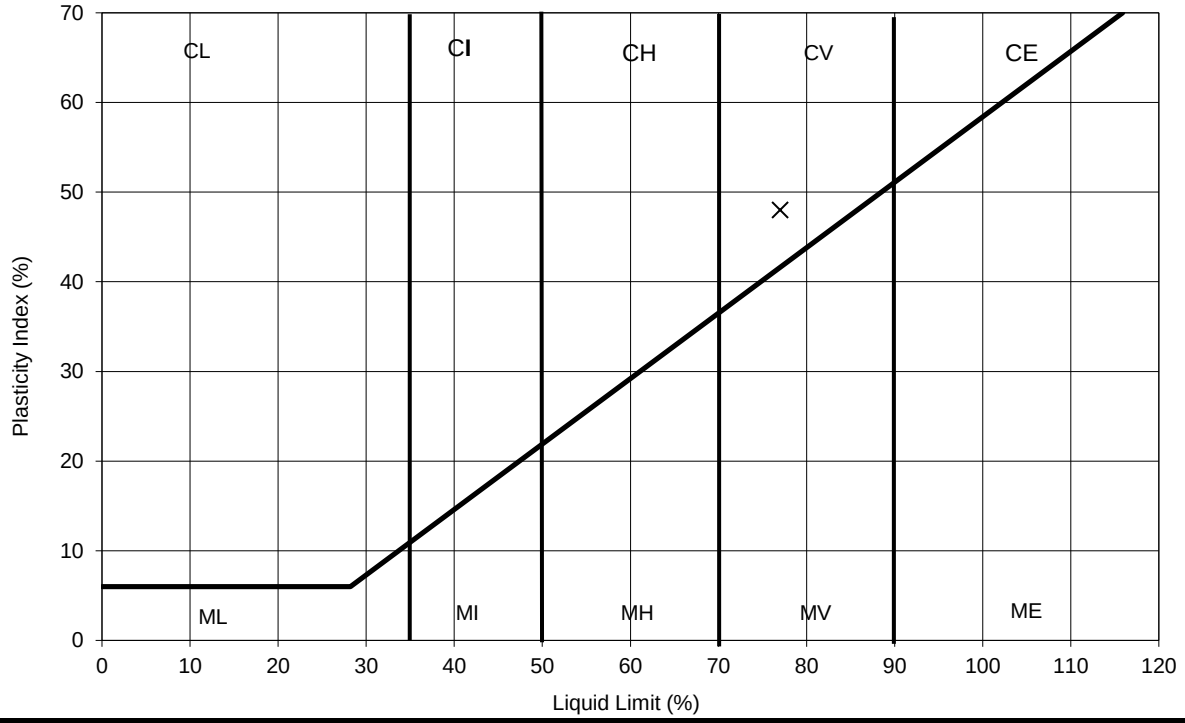
				Job No.	22815
				Borehole/Pit No.	BH2
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	6
Project No.	J17111	Client	GEA	Depth Top	4.00 m
Soil Description	Brown slightly mottled bluish grey silty CLAY with occasional selenite crystals			Depth Base	- m
				Sample Type	D
				Samples received	11/05/2017
				Schedules received	19/05/2017
				Project Started	22/05/2017
				Date Tested	05/06/2017



NATURAL MOISTURE CONTENT	**29**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**77**	**%**
PLASTIC LIMIT	**29**	**%**
PLASTICITY INDEX	**48**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 06/06/2017

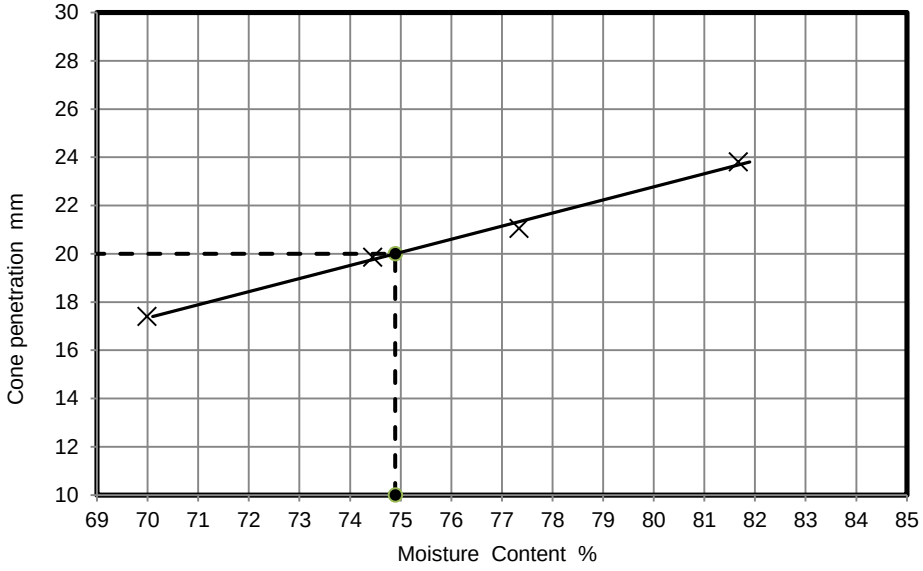
Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

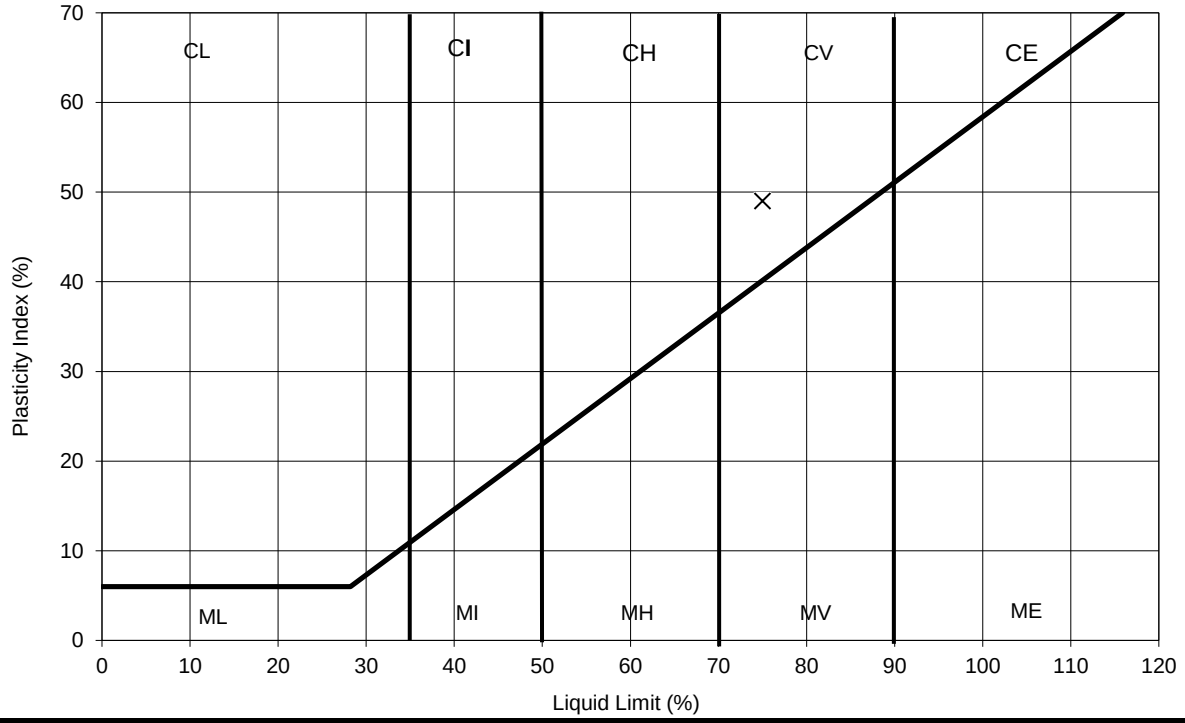
				Job No.	22815
				Borehole/Pit No.	BH3
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	3
Project No.	J17111	Client	GEA	Depth Top	1.60 m
Soil Description	Brown mottled pale grey silty CLAY with rare decayed roots			Depth Base	- m
				Sample Type	D
				Samples received	11/05/2017
				Schedules received	19/05/2017
				Project Started	22/05/2017
				Date Tested	05/06/2017



NATURAL MOISTURE CONTENT	**30**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**75**	**%**
PLASTIC LIMIT	**26**	**%**
PLASTICITY INDEX	**49**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 06/06/2017

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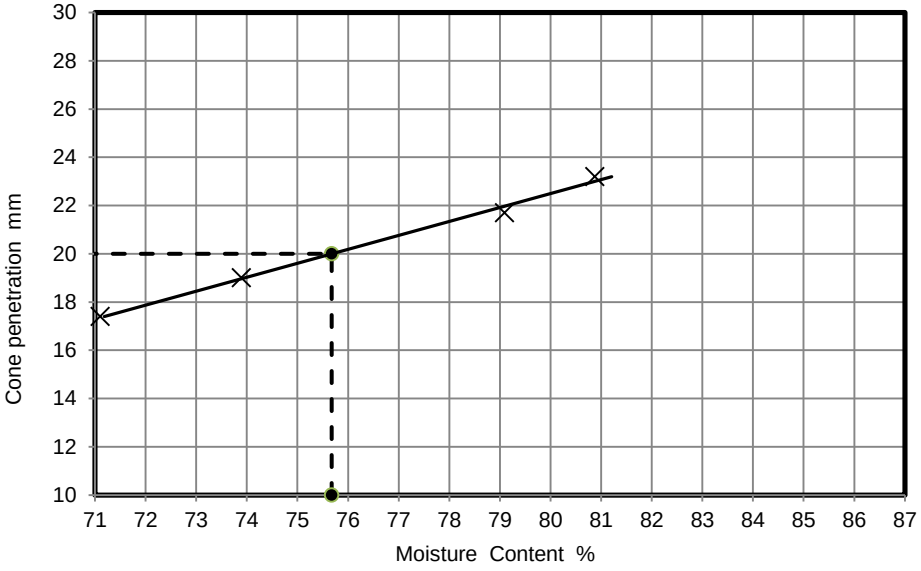
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

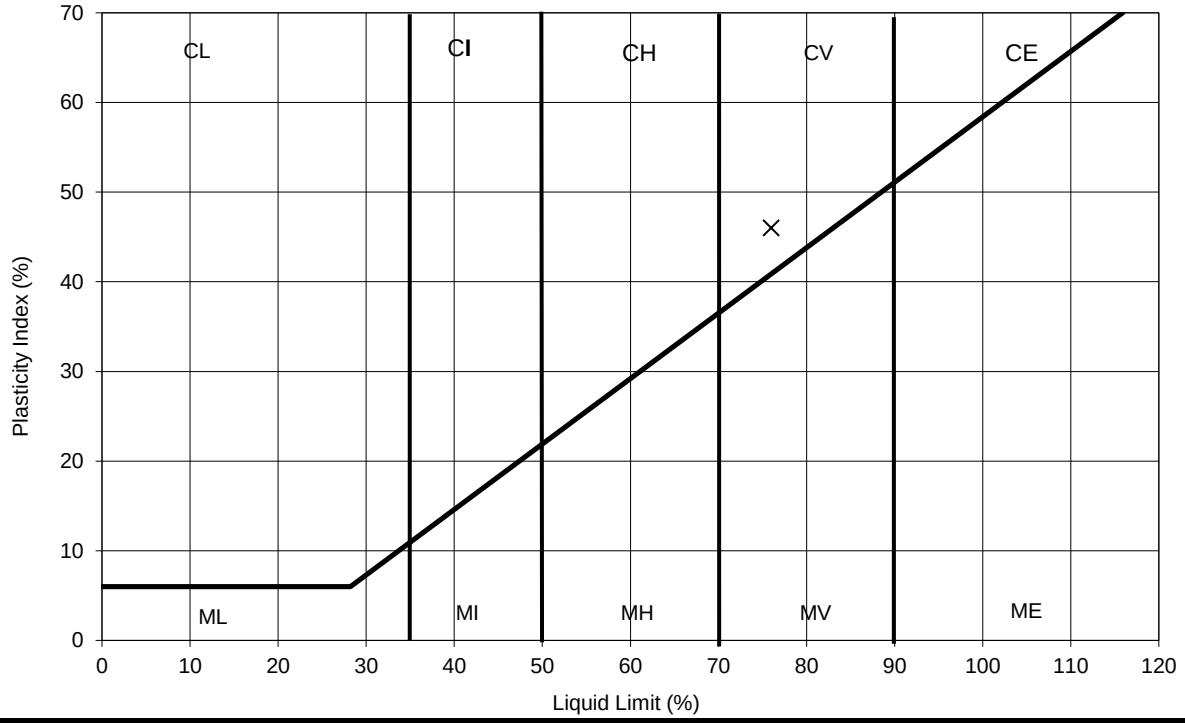
				Job No.	22815
				Borehole/Pit No.	BH3
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	6
Project No.	J17111	Client	GEA	Depth Top	3.10 m
Soil Description	Brown, pale grey and orange mottled silty CLAY with traces of selenite crystals			Depth Base	- m
				Sample Type	D
				Samples received	11/05/2017
				Schedules received	19/05/2017
				Project Started	22/05/2017
				Date Tested	05/06/2017



NATURAL MOISTURE CONTENT	**32**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**76**	**%**
PLASTIC LIMIT	**30**	**%**
PLASTICITY INDEX	**46**	**%**

Remarks

PLASTICITY INDEX



TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 06/06/2017

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results

Tested in accordance with BS1377 : Part 3 : 1990, clause 5.3 and clause 9

Job No.	Project Name	Programme	
22815	Wallace House, Fitzroy Park N6 6HT	Samples received	11/05/2017
		Schedule received	19/05/2017
Project No.	Client	Project started	22/05/2017
J17111	GEA	Testing Started	05/06/2017

Hole No.	Sample				Soil description	Dry Mass passing 2mm	SO3 Content	SO4 Content	pH	Remarks
	Ref	Top	Base	Type		%	g/l	g/l		
BH2	1	1.50	-	D	Brown silty CLAY	100	0.49	0.59	7.78	
BH3	6	3.10	-	D	Brown, pale grey and orange mottled silty CLAY with traces of selenite crystals	100	2.24	2.68	7.70	
BH3	8	4.00	-	D	Brown mottled bluish grey silty CLAY with selenite crystals	100	2.80	3.36	7.80	

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Checked and Approved
Initials J.P
Date: 06/06/2017

Unconsolidated Undrained Triaxial Compression tests without measurement of pore pressure
Summary of Results

Tests carried out in accordance with BS1377:Part 7 : 1990 clause 8 or 9 as appropriate to test

Job No.	Project Name	Programme	
22815	Wallace House, Fitzroy Park N6 6HT	Samples received	11-05-2017
		Schedule received	11-05-2017
Project No.	Client	Project started	
J17111	GEA	Testing Started	

Hole No.	Sample				Soil Description	Test Type	Density		w	Length	Diameter	σ3	At failure				Remarks
	Ref	Top	Base	Type			bulk	dry					Axial strain	σ1 - σ3	cu	Mode	
							Mg/m3		%	mm	mm	kPa	%	kPa	kPa		
BH1	1	3.00		U	Medium strength fissured brown slightly mottled bluish grey silty CLAY with selenite crystals	UU	1.93	1.44	34	198	102	60	6.1	120	60	B	
BH1	2	5.00		U	High strength fissured brown slightly mottled bluish grey silty CLAY with selenite crystals and occasional orangish brown sand partings	UU	1.97	1.5	32	198	102	100	5.1	183	91	B	
BH1	3	7.50		U	High strength fissured dark grey silty CLAY	UU	1.98	1.52	30	198	102	150	6.1	219	110	B	
BH1	4	10.50		U	High strength slightly fissured dark grey silty CLAY	UU	1.97	1.55	27	198	102	210	4.5	158	79	B	
BH1	5	13.50		U	High strength fissured dark grey silty CLAY	UU	1.97	1.51	31	198	102	270	2.5	175	87	B	

Legend					
	UU - single stage test (single and multiple specimens)	σ3	Cell pressure	Mode of failure ;	B - Brittle
	UUM - Multistage test on a single specimen	σ1 - σ3	Maximum corrected deviator stress		P - Plastic
	suffix R - remoulded or recompacted	cu	Undrained shear strength, ½ (σ1 - σ3)		C - Compound

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Checked and Approved

Initials:

Date: 13-07-17

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

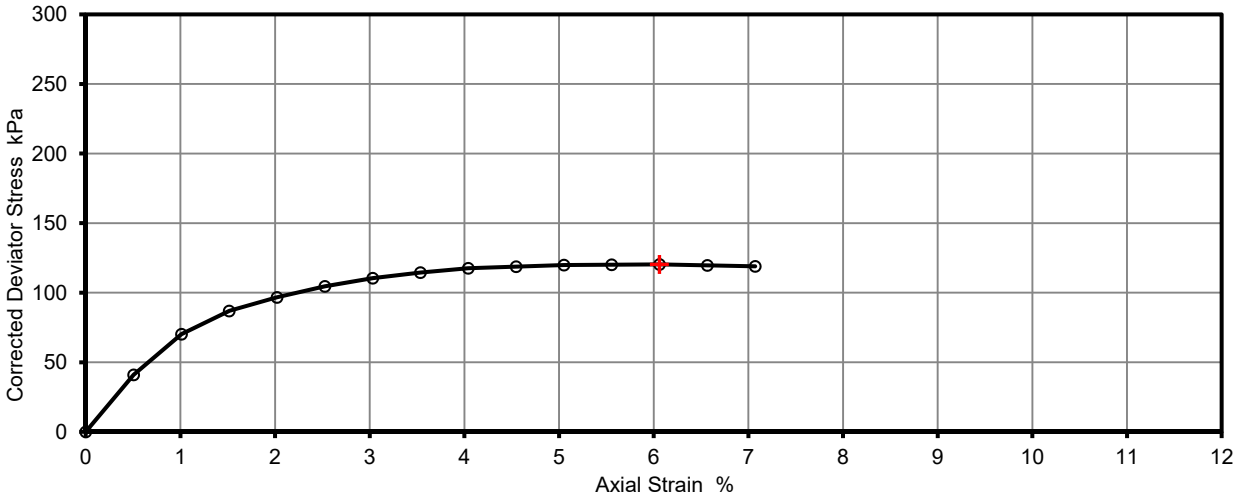
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	22815	
				Borehole/Pit No.	BH1	
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	1	
Project No.	J17111	Client	GEA	Depth	3.00	m
Soil Description	Medium strength fissured brown slightly mottled bluish grey silty CLAY with selenite crystals			Sample Type	U	
				Samples received	11-05-2017	
				Schedules received	11-05-2017	
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	05-06-2017	

Remarks

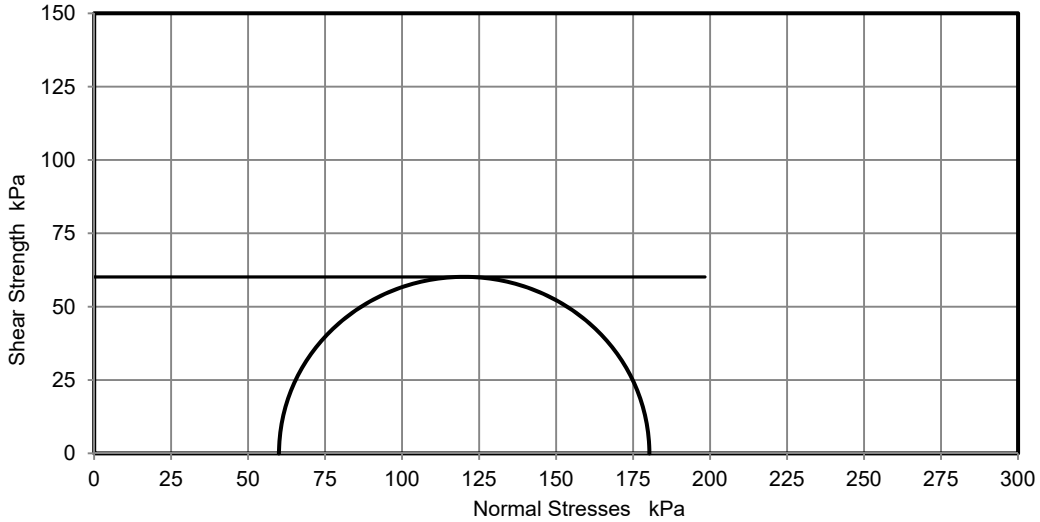
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	1.93	Mg/m3
Moisture Content	34	%
Dry Density	1.44	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	60	kPa
Axial Strain	6.1	%
Deviator Stress, (σ1 - σ3)f	120	kPa
Undrained Shear Strength, cu	60	kPa ½(σ1 - σ3)f
Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Test Report by K4 SOILS LABORATORY
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Checked and Approved
Initials: jp
Date 13-07-17

UKAS TESTING 2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

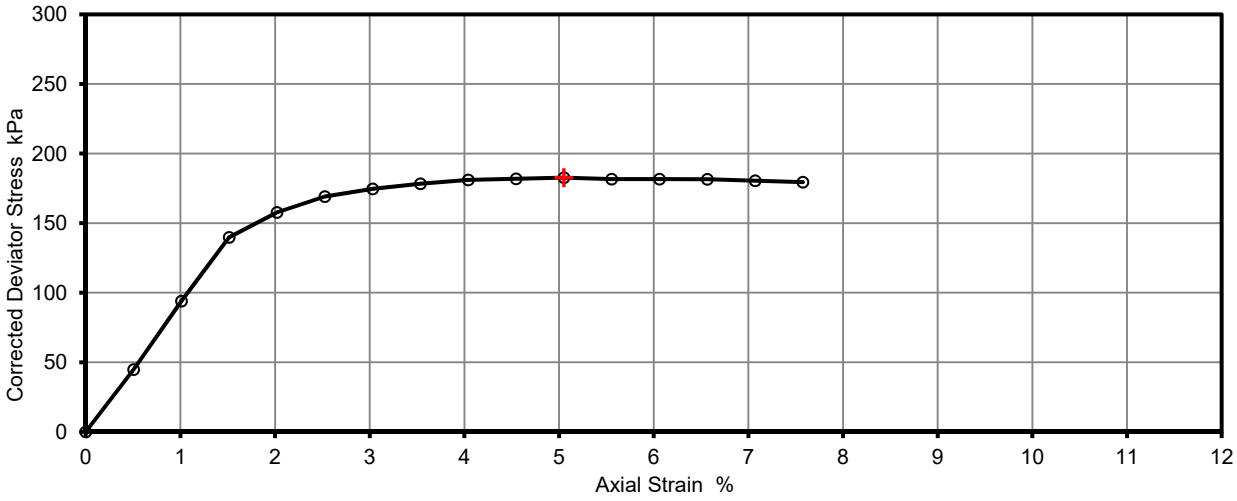
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	22815	
				Borehole/Pit No.	BH1	
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	2	
Project No.	J17111	Client	GEA	Depth	5.00	m
Soil Description	High strength fissured brown slightly mottled bluish grey silty CLAY with selenite crystals and occasional orangish brown sand partings			Sample Type	U	
				Samples received	11-05-2017	
				Schedules received	11-05-2017	
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	05-06-2017	

Remarks

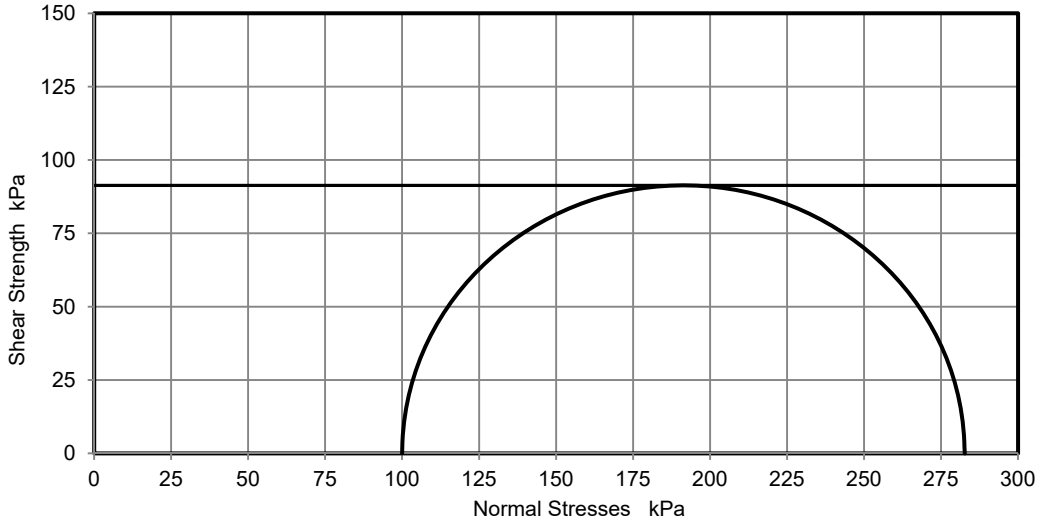
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	1.97	Mg/m3
Moisture Content	32	%
Dry Density	1.50	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	100	kPa
Axial Strain	5.1	%
Deviator Stress, (σ1 - σ3)f	183	kPa
Undrained Shear Strength, cu	91	kPa ½(σ1 - σ3)f
Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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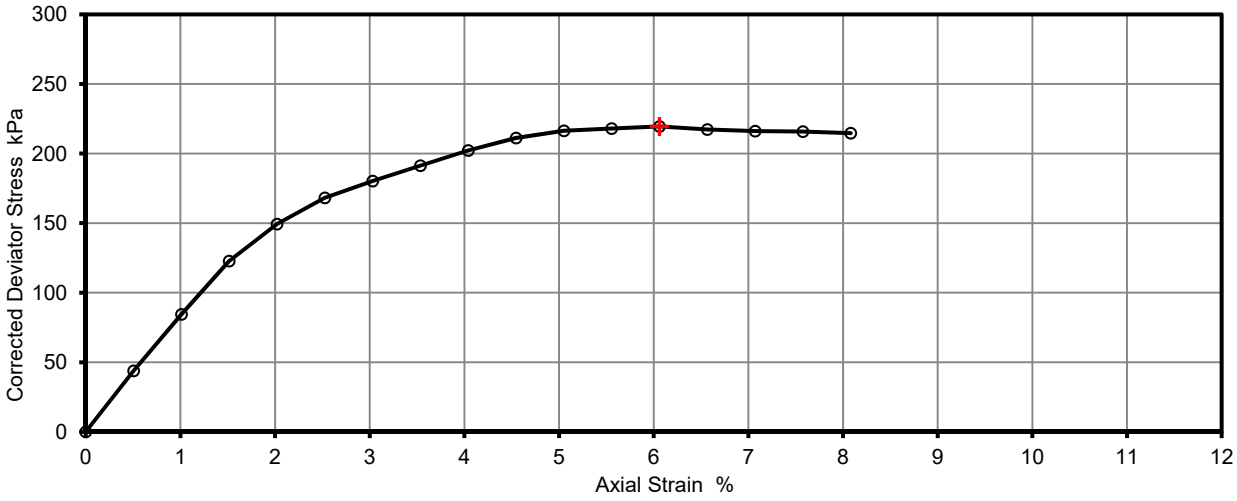
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	22815	
				Borehole/Pit No.	BH1	
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	3	
Project No.	J17111	Client	GEA	Depth	7.50	m
Soil Description	High strength fissured dark grey silty CLAY			Sample Type	U	
				Samples received	11-05-2017	
				Schedules received	11-05-2017	
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	05-06-2017	

Remarks

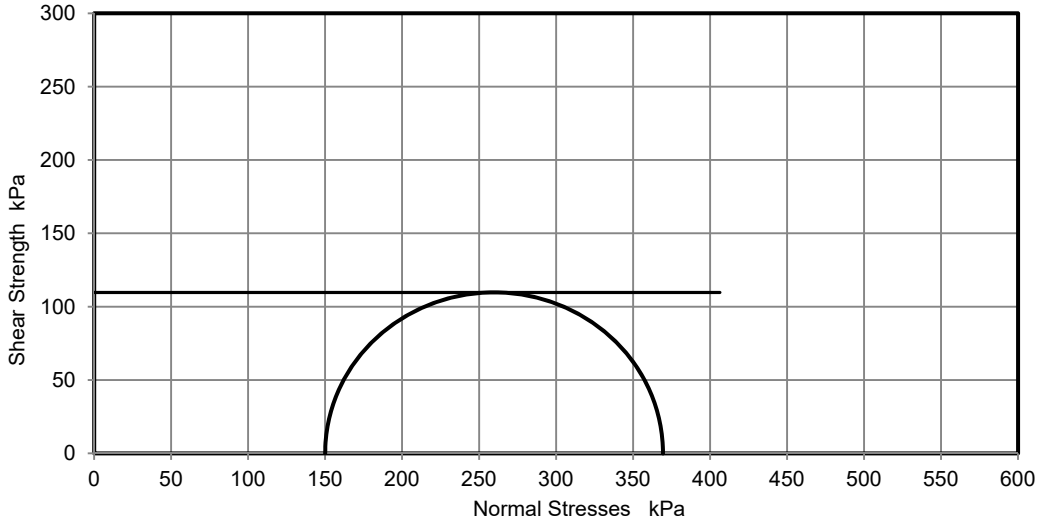
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	1.98	Mg/m3
Moisture Content	30	%
Dry Density	1.52	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	150	kPa
Axial Strain	6.1	%
Deviator Stress, (σ1 - σ3)f	219	kPa
Undrained Shear Strength, cu	110	kPa ½(σ1 - σ3)f
Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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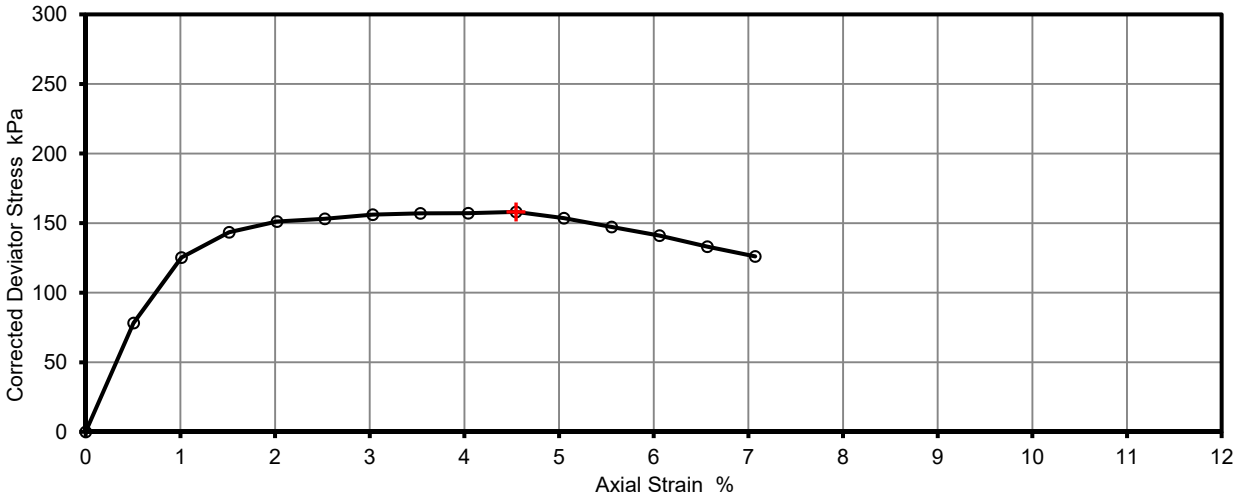
K4 SOILS	**Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen**			Job Ref	22815	
				Borehole/Pit No.	BH1	
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	4	
Project No.	J17111	Client	GEA	Depth	10.50	m
Soil Description	High strength slightly fissured dark grey silty CLAY			Sample Type	U	
				Samples received		
				Schedules received	00-01-1900	
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	13-07-2017	

Remarks

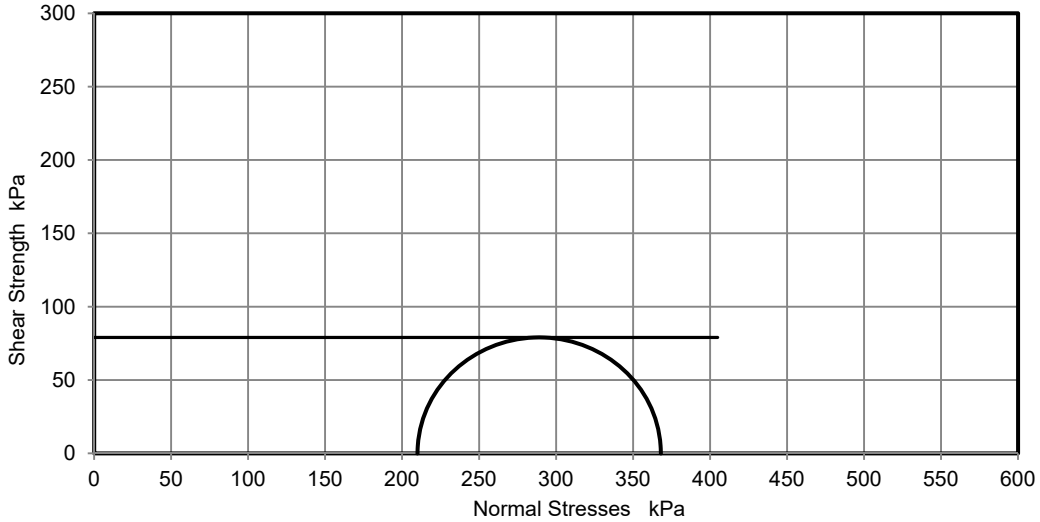
Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	1.97	Mg/m3
Moisture Content	27	%
Dry Density	1.55	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	210	kPa
Axial Strain	4.5	%
Deviator Stress, (σ1 - σ3)f	158	kPa
Undrained Shear Strength, cu	79	kPa ½(σ1 - σ3)f
Mode of Failure	Brittle	

Deviator Stress v Axial Strain



Mohr Circles



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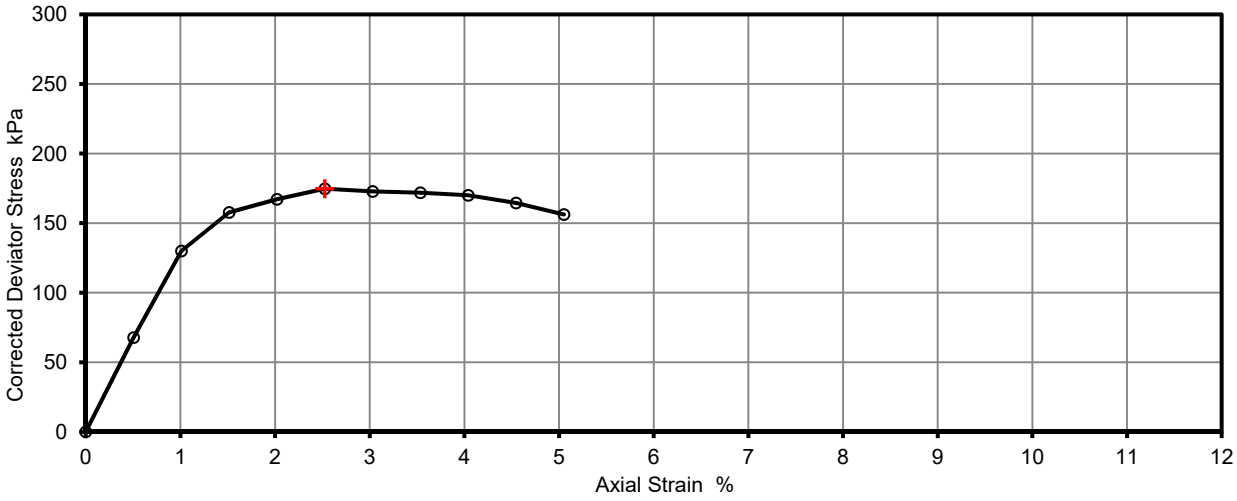
	Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen			Job Ref	22815	
				Borehole/Pit No.	BH1	
Site Name	Wallace House, Fitzroy Park N6 6HT			Sample No.	5	
Project No.	J17111	Client	GEA	Depth	13.50	m
Soil Description	High strength fissured dark grey silty CLAY			Sample Type	U	
				Samples received	11-05-2017	
				Schedules received	11-05-2017	
Test Method	BS1377 : Part 7 : 1990, clause 8, single specimen			Date of test	05-06-2017	

Remarks

Position within sample

Test Number	1	
Length	198.0	mm
Diameter	102.0	mm
Bulk Density	1.97	Mg/m3
Moisture Content	31	%
Dry Density	1.51	Mg/m3
Rate of Strain	2.0	%/min
Cell Pressure	270	kPa
Axial Strain	2.5	%
Deviator Stress, (σ1 - σ3)f	175	kPa
Undrained Shear Strength, cu	87	kPa ½(σ1 - σ3)f
Mode of Failure	Brittle	

Deviator Stress v Axial Strain



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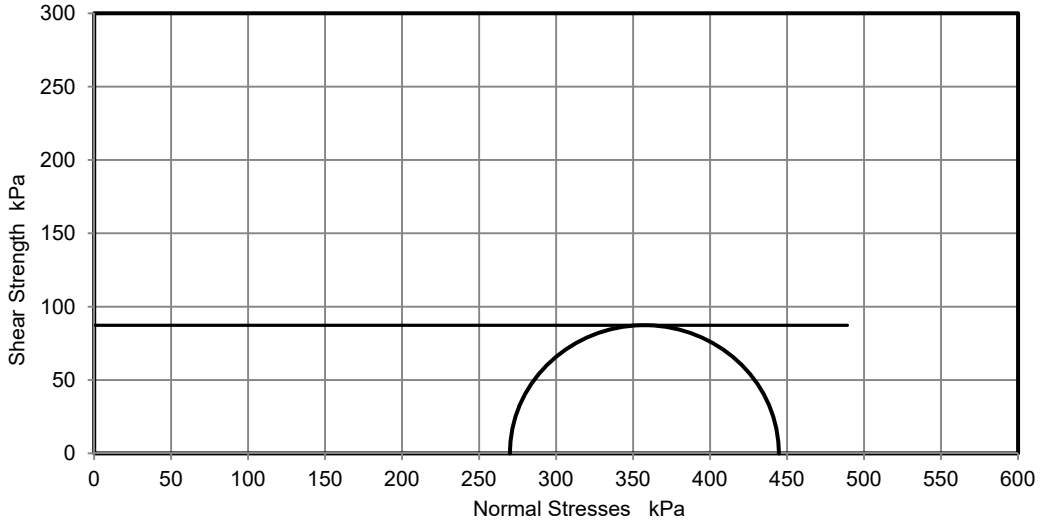

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Analytical Report Number : 17-48375

Replaces Analytical Report Number : 17-48375, issue no. 1

Project / Site name:	Wallace House, N6 6HT	**Samples received on:**	11/05/2017
Your job number:	J17111	**Samples instructed on:**	15/05/2017
Your order number:	J17111	**Analysis completed by:**	22/05/2017
Report Issue Number:	2	**Report issued on:**	23/05/2017
Samples Analysed:	3 soil samples		

Signed: CCStone

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 17-48375

Project / Site name: Wallace House, N6 6HT
Your Order No: J17111

Lab Sample Number				749007	749008	749009		
Sample Reference				BH2	TP2	BH3		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.40	0.40	0.60		
Date Sampled				09/05/2017	10/05/2017	09/05/2017		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	13	12	20		
Total mass of sample received	kg	0.001	NONE	1.0	1.3	1.1		
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile-Bitumen, Loose fibres	Chrysotile- Loose fibres	Chrysotile- Loose fibres		
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Detected		
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	9.3	8.5	8.0		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Total Sulphate as SO_4	mg/kg	50	MCERTS	1300	2500	8300		
Water Soluble SO4 as SO4 (2:1) Gallery 16h extraction	g/l	0.00125	MCERTS	0.102	0.487	1.75		
Sulphide	mg/kg	1	MCERTS	1.4	7.2	79		
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	8.6	10	130		
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.6	0.9	3.6		
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		

Analytical Report Number: 17-48375

Project / Site name: Wallace House, N6 6HT
Your Order No: J17111

Lab Sample Number				749007	749008	749009		
Sample Reference				BH2	TP2	BH3		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.40	0.40	0.60		
Date Sampled				09/05/2017	10/05/2017	09/05/2017		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.08	0.10	0.25		
Acenaphthylene	mg/kg	0.05	MCERTS	0.13	0.20	0.32		
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.23		
Fluorene	mg/kg	0.05	MCERTS	0.08	0.09	0.34		
Phenanthrene	mg/kg	0.05	MCERTS	1.3	1.2	3.8		
Anthracene	mg/kg	0.05	MCERTS	0.28	0.31	0.63		
Fluoranthene	mg/kg	0.05	MCERTS	2.2	2.6	6.4		
Pyrene	mg/kg	0.05	MCERTS	1.9	2.4	5.6		
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	1.8	3.6		
Chrysene	mg/kg	0.05	MCERTS	1.4	1.6	3.4		
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.0	1.4	3.3		
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.68	1.5	2.5		
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	1.7	3.5		
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.48	0.91	1.7		
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27		
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.63	1.4	2.2		
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	12.4	17.2	37.9		
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	11	30		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3	0.9		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	21	30		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	39	31	76		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	310	97	690		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.3	0.5	0.8		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	16	26		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	140	140	510		
Petroleum Hydrocarbons								
TPH C10 - C40	mg/kg	10	MCERTS	36	390	380		
TPH (C8 - C10)	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1		
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	8.2		
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	7.7	26		
TPH (C16 - C21)	mg/kg	1	MCERTS	4.6	53	83		
TPH (C21 - C35)	mg/kg	1	MCERTS	18	230	220		

Analytical Report Number : 17-48375

Project / Site name: Wallace House, N6 6HT

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
749007	BH2	None Supplied	0.40	Brown loam and clay with rubble and vegetation.
749008	TP2	None Supplied	0.40	Brown loam and clay with gravel and vegetation.
749009	BH3	None Supplied	0.60	Brown clay and sand with rubble and vegetation.

Analytical Report Number : 17-48375

Project / Site name: Wallace House, N6 6HT

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil by Gallery 16hr	Determination of water soluble Sulphate by discrete analyser (precipitation method).	In house method based on BS1377-3: 1990.	L082B-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding.	L076-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

GEA Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Generic Risk-Based Soil Screening Values

Site	Wallace House, Fitzroy Park, London N6 6HT	**Job Number** J17111
Client	Derrick & Claire Dale	**Sheet** 1 / 2
Engineer	Elliott Wood	

Proposed End Use Residential with plant uptake

Soil pH 8

Soil Organic Matter content % 2.5

Contaminant	Screening Value mg/kg	Data Source
Metals		
Arsenic	37	C4SL
Cadmium	26	C4SL
Chromium (III)	3000	LQM/CIEH
Chromium (VI)	21	C4SL
Copper	2,330	LQM/CIEH
Lead	200	C4SL
Elemental Mercury	1	SGV
Inorganic Mercury	170	SGV
Nickel	97	LQM/CIEH
Selenium	350	SGV
Zinc	3,750	LQM/CIEH
Hydrocarbons		
Benzene	0.34	C4SL
Toluene	320	SGV
Ethyl Benzene	180	SGV
Xylene	120	SGV
Aliphatic C5-C6	55	LQM/CIEH
Aliphatic C6-C8	160	LQM/CIEH
Aliphatic C8-C10	46	LQM/CIEH
Aliphatic C10-C12	230	LQM/CIEH
Aliphatic C12-C16	1700	LQM/CIEH
Aliphatic C16-C35	64,000	LQM/CIEH
Aromatic C6-C7	See Benzene	LQM/CIEH
Aromatic C7-C8	See Toluene	LQM/CIEH
Aromatic C8-C10	65	LQM/CIEH
Aromatic C10-C12	160	LQM/CIEH
Aromatic C12-C16	310	LQM/CIEH
Aromatic C16-C21	480	LQM/CIEH
Aromatic C21-C35	1100	LQM/CIEH
PRO (C_5 –C_{10})	646	Calc
DRO (C_{12} –C_{28})	66,490	Calc
Lube Oil (C_{28} –C_{44})	65,100	Calc
TPH	**1000**	Trigger for speciated testing

Contaminant	Screening Value mg/kg	Data Source
Anions		
Soluble Sulphate	500 mg/l	Structures
Sulphide	50	Structures
Chloride	400	Structures
Others		
Organic Carbon (%)	6	Methanogenic potential
Total Cyanide	140	WRAS
Total Mono Phenols	290	SGV
PAH		
Naphthalene	5.30	C4SL exp & LQM/CIEH
Acenaphthylene	400	LQM/CIEH
Acenaphthene	480	LQM/CIEH
Fluorene	380	LQM/CIEH
Phenanthrene	200	LQM/CIEH
Anthracene	4,900	LQM/CIEH
Fluoranthene	460	LQM/CIEH
Pyrene	1,000	LQM/CIEH
Benzo(a) Anthracene	6.7	C4SL exp & LQM/CIEH
Chrysene	11	C4SL exp & LQM/CIEH
Benzo(b) Fluoranthene	9.5	C4SL exp & LQM/CIEH
Benzo(k) Fluoranthene	14.1	C4SL exp & LQM/CIEH
Benzo(a) pyrene	4.40	C4SL
Indeno(1 2 3 cd) Pyrene	5.6	C4SL exp & LQM/CIEH
Dibenzo(a h) Anthracene	1.27	C4SL exp & LQM/CIEH
Benzo (g h i) Perylene	69	C4SL exp & LQM/CIEH
Screening value for PAH	**62.9**	B(a)P / 0.15
Chlorinated Solvents		
1,1,1 trichloroethane (TCA)	27.2	LQM/CIEH
tetrachloroethane (PCA)	1.25	LQM/CIEH
tetrachloroethene (PCE)	2.32	LQM/CIEH
trichloroethene (TCE)	0.308	LQM/CIEH
1,2-dichloroethane (DCA)	0.008	LQM/CIEH
vinyl chloride (Chloroethene)	0.000184	LQM/CIEH
tetrachloromethane (Carbon tetra	0.039	LQM/CIEH
trichloromethane (Chloroform)	1.99	LQM/CIEH

Notes

Concentrations measured below the above values may be considered to represent 'uncontaminated conditions' which pose 'LOW' risk to human health. Concentrations measured in excess of these values indicate a potential risk which require further, site specific risk assessment.

SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009

LQM/CIEH - Generic Assessment Criteria for Human Health Risk Assessment 2nd edition (2009)derived using CLEA 1.04 model 2009

C4SL - Defra Category 4 Screening value based on Low Level of Toxicological Risk

C4SL exp & LQM/CIEH calculated using C4SL revisions to exposure assessment but LQM/CIEH health criteria values

Calc - sum of nearest available carbon range specified including BTEX for PRO fraction

B(a)P / 0.15 - GEA experience indicates that Benzo(a) pyrene (one of the most common and most carcinogenic of the PAHs) rarely exceeds 15% of the total PAH concentration, hence this Total PAH threshold is regarded as being conservative

GEA Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Generic Risk-Based Soil Screening Values

Site	Wallace House, Fitzroy Park, London N6 6HT
Client	Derrick & Claire Dale
Engineer	Elliott Wood

Job Number J17111

Sheet 2 / 2

Proposed End Use **Residential with plant uptake**

The key generic assumptions for this end use are as follows;

- ❑ that groundwater will not be a critical risk receptor;
- ❑ that the critical receptor for human health will be a young female aged 0 to 6 years old;
- ❑ that the exposure duration will be six years;
- ❑ that the building type equates to a terraced house.
- ❑ that the critical exposure pathways will be direct soil and indoor dust ingestion, consumption of home grown produce, consumption of soil adhering to home grown produce, skin contact with soils and dust, and inhalation of dust and vapours

Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of the generic screening value there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include:

- ❑ additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk;
- ❑ site specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or
- ❑ soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
123230233_1_1

Customer Reference:
J17111

National Grid Reference:
527710, 187010

Slice:
A

Site Area (Ha):
0.18

Search Buffer (m):
1000

Site Details:

Wallace House, Fitzroy Park
LONDON
N6 6HT

Client Details:

Mr S Branch
GEA Ltd
Widbury Barn
Widbury Hill
Ware
Herts
SG12 7QE

Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Report Version v50.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1				2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters	pg 1		1	1	1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 2			1	1
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 2	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 3				1
Potentially Infilled Land (Water)	pg 3				5
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 4	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry					
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 4		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 7	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 8	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 8		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 8	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 9			4	30
Fuel Station Entries	pg 11				1
Points of Interest - Commercial Services	pg 11				4
Points of Interest - Education and Health	pg 12				4
Points of Interest - Manufacturing and Production	pg 12				3
Points of Interest - Public Infrastructure	pg 12		1	2	18
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 15			1	
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 15			1	
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	4	1	527706 187050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	257	1	527500 187200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	349	1	527550 187350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	398	1	527300 187150
1	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Highgate Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0148 Permit Version: 1 Effective Date: 15th September 1989 Issued Date: 15th September 1989 Revocation Date: 5th October 2000 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: River Thames **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	626	2	528300 187300
2	**Local Authority Pollution Prevention and Controls** Name: John Nichol Service Station Location: 31-33 North Road, LONDON, N6 4BE Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: PV-11 Dated: 17th April 2001 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	801	3	528296 187611
3	**Local Authority Pollution Prevention and Controls** Name: First Choice Location: 5 Highgate High Street, London, N6 5jr Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC3 Dated: 12th January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	895	4	528575 187336
	Nearest Surface Water Feature	A13SE (SE)	38	-	527750 186975
4	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: FINCHLEY Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 28th October 1993 Incident Reference: NE930729 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	245	2	527800 187280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Regents Canal, Camden Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 20th February 1997 Incident Reference: THN11997031084 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	372	2	527300 187000
6	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Highgate View Road Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 19th May 1992 Incident Reference: N1920289 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	957	2	527800 188000
7	**Substantiated Pollution Incident Register** Authority: Environment Agency - Thames Region, North East Area Incident Date: 22nd July 2004 Incident Reference: 252851 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable Materials and WastesAlgae	A8NE (S)	451	2	527851 186553
8	**Substantiated Pollution Incident Register** Authority: Environment Agency - Thames Region, North East Area Incident Date: 23rd September 2003 Incident Reference: 191922 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified	A7SE (SW)	985	2	527254 186101
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 39 West London Scale: 1:100,000	A13NE (NE)	0	2	527733 187035
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 39 West London Scale: 1:100,000	A13NE (E)	0	2	527706 187014
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (E)	0	1	527706 187014
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: London Borough of Camden - Has no landfill data to supply		0	5	527706 187014
	Local Authority Landfill Coverage Name: London Borough of Haringey - Has supplied landfill data		472	6	527769 187517
	Local Authority Landfill Coverage Name: London Borough of Barnet - Has supplied landfill data		990	7	526832 187534
9	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A7NE (SW)	751	-	527200 186420
10	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A19SW (NE)	719	-	528057 187685
11	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1896	A18NW (N)	768	-	527618 187807
12	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1946	A19NE (NE)	993	-	528481 187693
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1896	A15NW (E)	996	-	528716 187169
14	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A19NW (NE)	998	-	528148 187951

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13NE (E)	0	1	527706 187014
	BGS Estimated Soil Chemistry No data available				
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527639, 187232 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.40 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 110.70 mg/kg Lead Measured Concentration: 147.10 mg/kg Nickel Measured Concentration: 13.80 mg/kg	A13NW (N)	204	1	527639 187232
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527676, 186759 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 15.30 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 93.70 mg/kg Lead Measured Concentration: 232.10 mg/kg Nickel Measured Concentration: 19.50 mg/kg	A13SW (S)	221	1	527676 186759
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527233, 187207 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 12.20 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 101.50 mg/kg Lead Measured Concentration: 188.80 mg/kg Nickel Measured Concentration: 13.10 mg/kg	A12NE (W)	482	1	527233 187207
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527271, 186735 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.50 mg/kg Cadmium Measured Concentration: 0.40 mg/kg Chromium Measured Concentration: 104.50 mg/kg Lead Measured Concentration: 217.30 mg/kg Nickel Measured Concentration: 12.30 mg/kg	A12SE (SW)	486	1	527271 186735

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528213, 187266 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 22.40 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 84.50 mg/kg Lead Measured Concentration: 382.20 mg/kg Nickel Measured Concentration: 21.90 mg/kg	A14NW (NE)	532	1	528213 187266
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527819, 187616 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 12.50 mg/kg Cadmium Measured Concentration: 0.40 mg/kg Chromium Measured Concentration: 94.70 mg/kg Lead Measured Concentration: 201.10 mg/kg Nickel Measured Concentration: 14.10 mg/kg	A18SE (N)	578	1	527819 187616
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528310, 186810 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 16.90 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 121.40 mg/kg Lead Measured Concentration: 205.10 mg/kg Nickel Measured Concentration: 23.20 mg/kg	A14SW (E)	611	1	528310 186810
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527758, 186258 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 17.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 103.40 mg/kg Lead Measured Concentration: 230.10 mg/kg Nickel Measured Concentration: 21.30 mg/kg	A8SE (S)	723	1	527758 186258
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527238, 187609 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 19.50 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 85.10 mg/kg Lead Measured Concentration: 395.80 mg/kg Nickel Measured Concentration: 44.00 mg/kg	A17SE (NW)	741	1	527238 187609

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 526862, 187134 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 9.90 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 103.50 mg/kg Lead Measured Concentration: 174.50 mg/kg Nickel Measured Concentration: 11.50 mg/kg	A12NW (W)	820	1	526862 187134
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527297, 186229 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 21.10 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 115.30 mg/kg Lead Measured Concentration: 367.50 mg/kg Nickel Measured Concentration: 18.70 mg/kg	A7SE (SW)	852	1	527297 186229
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528248, 186291 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.80 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 88.40 mg/kg Lead Measured Concentration: 202.30 mg/kg Nickel Measured Concentration: 22.80 mg/kg	A9SW (SE)	879	1	528248 186291
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 526771, 186829 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 23.40 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 74.50 mg/kg Lead Measured Concentration: 586.60 mg/kg Nickel Measured Concentration: 44.00 mg/kg	A12SW (W)	919	1	526771 186829
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528316, 187756 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 18.10 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 79.60 mg/kg Lead Measured Concentration: 761.60 mg/kg Nickel Measured Concentration: 31.00 mg/kg	A19NW (NE)	922	1	528316 187756

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528658, 186810 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 19.20 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 82.70 mg/kg Lead Measured Concentration: 148.90 mg/kg Nickel Measured Concentration: 29.10 mg/kg	A14SE (E)	947	1	528658 186810
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528669, 187173 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.30 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 72.20 mg/kg Lead Measured Concentration: 148.70 mg/kg Nickel Measured Concentration: 12.90 mg/kg	A14NE (E)	949	1	528669 187173
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 526716, 186777 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 18.90 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 130.80 mg/kg Lead Measured Concentration: 223.30 mg/kg Nickel Measured Concentration: 10.00 mg/kg	A12SW (W)	984	1	526716 186777
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7209 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	A13NE (E)	0	1	527706 187014

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	148	1	527524 187007
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	6	1	527727 187053
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	527706 187014

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Contemporary Trade Directory Entries** Name: 24hr Abacus Location: 40, Highgate West Hill, London, N6 6LS Classification: Air Conditioning Equipment & Systems **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	381	-	528098 187139
15	**Contemporary Trade Directory Entries** Name: Hygi Seat Location: 40, Highgate West Hill, London, N6 6LS Classification: Hygiene & Cleansing Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	382	-	528098 187139
16	**Contemporary Trade Directory Entries** Name: Electrocoin Location: 1, Oakeshott Avenue, London, N6 6NT Classification: Electronic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	467	-	528136 186773
17	**Contemporary Trade Directory Entries** Name: Athlone House Location: Hampstead Lane, London, N6 4RX Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	468	-	527795 187509
18	**Contemporary Trade Directory Entries** Name: Cleaning Services Highgate Location: 27, Oakeshott Avenue, London, N6 6NT Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	563	-	528259 186810
19	**Contemporary Trade Directory Entries** Name: Oven Cleaning High Gate Location: 77, Highgate West Hill, London, N6 6BU Classification: Oven cleaning **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	581	-	528258 187284
20	**Contemporary Trade Directory Entries** Name: Simply For You Location: 8, Stormont Road, London, N6 4NL Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	700	-	527493 187708
21	**Contemporary Trade Directory Entries** Name: Bonsucro Location: 20, Pond Square, London, N6 6BA Classification: Sugar Refiners & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	703	-	528324 187419
21	**Contemporary Trade Directory Entries** Name: Smart Line Location: 57, Highgate High Street, London, N6 5JX Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	737	-	528370 187409
21	**Contemporary Trade Directory Entries** Name: Cleaners Of Highgate Location: 39 Highgate High St, London, N6 5LA Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	750	-	528393 187394
21	**Contemporary Trade Directory Entries** Name: A Man With A Van Highgate Location: 47, Highgate High Street, London, N6 5JX Classification: Rubbish Clearance **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	762	-	528408 187390
21	**Contemporary Trade Directory Entries** Name: Walter Castellazzo Designs Location: 84, Highgate High Street, London, N6 5HX Classification: Homefurnishings - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	767	-	528397 187422

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Contemporary Trade Directory Entries** Name: Antique Bronze Ltd Location: 44, Hillway, London, N6 6EP Classification: Antiques - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	713	-	528391 186736
23	**Contemporary Trade Directory Entries** Name: On Reflection Location: Highgate West Hill, London, N6 6AP Classification: Mirrors & Decorative Glass **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	739	-	528256 186488
24	**Contemporary Trade Directory Entries** Name: Highgate Scaffolding Location: 8, South Grove, London, N6 6BS Classification: Scaffolding & Work Platforms **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	778	-	528444 187351
24	**Contemporary Trade Directory Entries** Name: Highgate Cleaners Location: 37, Highgate High Street, London, N6 5JT Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	810	-	528478 187352
24	**Contemporary Trade Directory Entries** Name: Cleaners Highgate Location: 37, Highgate High Street, London, N6 5JT Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	810	-	528478 187352
24	**Contemporary Trade Directory Entries** Name: Cleaning Services Highgate Location: 29, Highgate High Street, London, N6 5JT Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (NE)	815	-	528487 187342
24	**Contemporary Trade Directory Entries** Name: Cyril R Salter Location: 44a, Highgate High Street, LONDON, N6 5HX Classification: Perfume Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	843	-	528499 187388
25	**Contemporary Trade Directory Entries** Name: John Nichol Cars Ltd Location: 31-33 North Road, London, N6 4BE Classification: Car Dealers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	798	-	528288 187614
26	**Contemporary Trade Directory Entries** Name: Highgate Cemetery Location: Swains Lane, London, N6 6PJ Classification: Cemeteries & Crematoria **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	810	-	528541 186964
27	**Contemporary Trade Directory Entries** Name: Brookfield Garage Location: 5, Swains Lane, London, N6 6QX Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	838	-	528303 186397
27	**Contemporary Trade Directory Entries** Name: Cavours Location: 110, Highgate West Hill, London, N6 6AP Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	843	-	528287 186374
28	**Contemporary Trade Directory Entries** Name: Liquivite Vetfoods Location: 3, Bromwich Avenue, London, N6 6QH Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	866	-	528467 186551

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Contemporary Trade Directory Entries** Name: First Choice Dry Cleaners Location: 5, Highgate High Street, London, N6 5JR Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	894	-	528574 187337
29	**Contemporary Trade Directory Entries** Name: Petroleum Development Consultants Location: Stanhope House 4-8, Highgate High Street, London, N6 5JL Classification: Oil & Gas Exploration Supplies & Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SE (E)	942	-	528617 187358
30	**Contemporary Trade Directory Entries** Name: Vagabond Bags Ltd Location: 7, Broadbent Close, London, N6 5JW Classification: Bags, Belts & Accessories - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	897	-	528551 187402
30	**Contemporary Trade Directory Entries** Name: Sally Poppy Location: 4, Broadbent Close, London, N6 5JW Classification: Lingerie Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	915	-	528569 187406
30	**Contemporary Trade Directory Entries** Name: Radiant Architectural Lighting Ltd Location: 10, Broadbent Close, London, N6 5JW Classification: Lighting Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	933	-	528587 187410
31	**Contemporary Trade Directory Entries** Name: Kemet Creatives Location: 12a, St. Albans Road, London, NW5 1RD Classification: Clothing & Fabrics - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	939	-	528418 186368
32	**Contemporary Trade Directory Entries** Name: London Female & Male Fertility Centre Location: 17, View Road, London, N6 4DJ Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	979	-	527824 188021
32	**Contemporary Trade Directory Entries** Name: Highgate Hospital Location: 17, View Road, London, N6 4DJ Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	979	-	527824 188021
33	**Contemporary Trade Directory Entries** Name: Stratstone Of Highgate Location: 1, North Hill, London, N6 4AB Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A19NW (NE)	996	-	528228 187907
33	**Contemporary Trade Directory Entries** Name: London Brewing Co Location: 13, North Hill, London, N6 4AB Classification: Brewers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	999	-	528231 187908
34	**Fuel Station Entries** Name: John Nichol Cars Location: 31-33 North Road, Highgate, London, Greater London, N6 4BE Brand: Unbranded Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	811	-	528305 187616
35	**Points of Interest - Commercial Services** Name: Lyras Maritime Ltd Location: 17 Sheldon Avenue, London, N6 4JS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A18NW (N)	867	8	527385 187845

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	**Points of Interest - Commercial Services** Name: Highgate Autos Ltd Location: 9 Broadbent Close, London, N6 5JW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	928	8	528580 187414
36	**Points of Interest - Commercial Services** Name: Highgate Motors Location: 9 Broadbent Close, London, N6 5JW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	929	8	528581 187415
36	**Points of Interest - Commercial Services** Name: Highgate Motors Location: 9 Broadbent Close, London, N6 5JW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	932	8	528587 187410
37	**Points of Interest - Education and Health** Name: Highgate Hospital Location: 17 View Road, London, N6 4DJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18NE (N)	979	8	527824 188020
37	**Points of Interest - Education and Health** Name: London Female & Male Fertility Centre Location: 17 View Road, London, N6 4DJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18NE (N)	979	8	527824 188021
37	**Points of Interest - Education and Health** Name: Highgate Hospital Location: 17 View Road, London, N6 4DJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18NE (N)	979	8	527824 188021
37	**Points of Interest - Education and Health** Name: Highgate Private Hospital Location: 17 View Road, London, N6 4DJ Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18NE (N)	979	8	527824 188021
38	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	652	8	528305 187350
39	**Points of Interest - Manufacturing and Production** Name: West Hill House Business Centre Location: 6 Swains Lane, London, N6 6QS Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A9NW (SE)	883	8	528328 186358
39	**Points of Interest - Manufacturing and Production** Name: West Hill House Location: 6a Swains Lane, London, N6 6QS Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A9NW (SE)	883	8	528328 186357
40	**Points of Interest - Public Infrastructure** Name: Sluice Location: N6 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	161	8	527536 187095
41	**Points of Interest - Public Infrastructure** Name: Sluice Location: NW3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	404	8	527307 187183

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**Points of Interest - Public Infrastructure** Name: Sluice Location: NW3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	482	8	527209 187141
43	**Points of Interest - Public Infrastructure** Name: Sluice Location: N6 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	573	8	527877 186434
44	**Points of Interest - Public Infrastructure** Name: Weir Location: NW3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	597	8	527089 187137
45	**Points of Interest - Public Infrastructure** Name: Mausoleum Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	606	8	528325 187149
45	**Points of Interest - Public Infrastructure** Name: Mausoleum Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	644	8	528362 187159
45	**Points of Interest - Public Infrastructure** Name: Mausoleum Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	649	8	528375 187104
45	**Points of Interest - Public Infrastructure** Name: Highgate Cemetery Location: N6 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	672	8	528401 187086
46	**Points of Interest - Public Infrastructure** Name: Mausoleum Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	682	8	528414 186980
46	**Points of Interest - Public Infrastructure** Name: Highgate Cemetery Location: N6 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	702	8	528430 186928
47	**Points of Interest - Public Infrastructure** Name: Sluice Location: N6 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SE (SE)	731	8	528029 186325
48	**Points of Interest - Public Infrastructure** Name: A Man with a Van Highgate Location: 47 Highgate High Street, London, N6 5JX Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A19SE (NE)	762	8	528408 187390
49	**Points of Interest - Public Infrastructure** Name: Highgate Cemetery Location: N6 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	785	8	528517 187039

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**Points of Interest - Public Infrastructure** Name: Cemetery Location: N6 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	794	8	528526 186966
49	**Points of Interest - Public Infrastructure** Name: Highgate Cemetery Location: Swains Lane, London, N6 6PJ Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A14SE (E)	809	8	528541 186963
49	**Points of Interest - Public Infrastructure** Name: Highgate Cemetery Location: Swains Lane, London, N6 6PJ Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A14SE (E)	810	8	528541 186964
50	**Points of Interest - Public Infrastructure** Name: John Nichol (Cars) Ltd Location: 33 North Road, London, N6 4BE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	804	8	528292 187620
50	**Points of Interest - Public Infrastructure** Name: John Nichol Cars Location: 31-33 North Road, Highgate, London, N6 4BE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	811	8	528305 187616
51	**Points of Interest - Public Infrastructure** Name: Sluice Location: NW3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	860	8	527121 186344
52	**Points of Interest - Public Infrastructure** Name: Sluice Location: NW3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	926	8	526935 186450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	**Ancient Woodland** Name: Ken Wood Reference: 1495724 Area(m²): 94873.72 Type: Ancient and Semi-Natural Woodland	A13NW (W)	252	9	527421 187024
54	**Sites of Special Scientific Interest** Name: Hampstead Heath Woods Multiple Areas: Y Total Area (m2): 161715.26 Source: Natural England Reference: 1003451 Designation Details: Site Of Special Scientific Interest Designation Date: 18th April 1990 Date Type: Notified	A13NW (W)	252	9	527421 187024

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
London Borough of Hackney - Environmental Health Department	April 2015	Annual Rolling Update
London Borough of Islington - Public Protection	August 2013	Annual Rolling Update
London Borough of Barnet - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Camden - Pollution Projects Team	March 2013	Annual Rolling Update
London Borough of Waltham Forest - Environmental Health Department	October 2013	Annual Rolling Update
London Borough of Haringey - Planning and Environmental Health	October 2014	Annual Rolling Update
Westminster City Council - Environmental Health Department	October 2014	Annual Rolling Update
London Borough of Brent - Environmental Health Department	September 2014	Annual Rolling Update
London Borough of Enfield - Environmental Services	September 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Thames Region	January 2017	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Thames Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - Thames Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control		
Environment Agency - South East Region - North East Thames Area	January 2017	Quarterly
Environment Agency - Thames Region	January 2017	Quarterly
Local Authority Integrated Pollution Prevention And Control		
London Borough of Barnet - Environmental Health Department	April 2013	Annual Rolling Update
London Borough of Enfield - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Islington - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Haringey - Planning and Environmental Health	June 2014	Annual Rolling Update
London Borough of Hackney - Environmental Health Department	March 2015	Annual Rolling Update
London Borough of Brent - Environmental Health Department	March 2016	Annual Rolling Update
Westminster City Council - Environmental Health Department	November 2015	Annual Rolling Update
London Borough of Camden - Pollution Projects Team	October 2014	Annual Rolling Update
London Borough of Waltham Forest - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
London Borough of Barnet - Environmental Health Department	December 2014	Annual Rolling Update
London Borough of Enfield - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Islington - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Haringey - Planning and Environmental Health	June 2014	Annual Rolling Update
London Borough of Hackney - Environmental Health Department	March 2015	Annual Rolling Update
London Borough of Brent - Environmental Health Department	March 2016	Annual Rolling Update
Westminster City Council - Environmental Health Department	November 2015	Annual Rolling Update
London Borough of Camden - Pollution Projects Team	October 2014	Annual Rolling Update
London Borough of Waltham Forest - Environmental Health Department	September 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
London Borough of Barnet - Environmental Health Department	December 2014	Annual Rolling Update
London Borough of Enfield - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Islington - Environmental Health Department	January 2015	Annual Rolling Update
London Borough of Haringey - Planning and Environmental Health	June 2014	Annual Rolling Update
London Borough of Hackney - Environmental Health Department	March 2015	Annual Rolling Update
London Borough of Brent - Environmental Health Department	March 2016	Annual Rolling Update
Westminster City Council - Environmental Health Department	November 2015	Annual Rolling Update
London Borough of Camden - Pollution Projects Team	October 2014	Annual Rolling Update
London Borough of Waltham Forest - Environmental Health Department	September 2014	Annual Rolling Update
Pollution Incidents to Controlled Waters		
Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Thames Region	March 2013	As notified

Agency & Hydrological	Version	Update Cycle
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2017 January 2017	Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	October 2016	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	January 2017	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	February 2017	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2017	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2017	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2017	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2017	Quarterly
Flood Defences Environment Agency - Head Office	February 2017	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	January 2017	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - South East Region - North East Thames Area	August 2016	Quarterly
Environment Agency - Thames Region - North East Area	August 2016	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - South East Region - North East Thames Area	October 2016	Quarterly
Environment Agency - Thames Region - North East Area	October 2016	Quarterly
Local Authority Landfill Coverage		
London Borough of Barnet	May 2000	Not Applicable
London Borough of Brent - Environmental Health Department	May 2000	Not Applicable
London Borough of Camden	May 2000	Not Applicable
London Borough of Enfield - Environmental Health Department	May 2000	Not Applicable
London Borough of Hackney	May 2000	Not Applicable
London Borough of Haringey - Planning Department	May 2000	Not Applicable
London Borough of Islington - Environmental Health Department	May 2000	Not Applicable
London Borough of Waltham Forest - Environmental Health Department	May 2000	Not Applicable
Westminster City Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
London Borough of Enfield - Environmental Health Department	February 2003	Not Applicable
London Borough of Barnet	May 2000	Not Applicable
London Borough of Brent - Environmental Health Department	May 2000	Not Applicable
London Borough of Camden	May 2000	Not Applicable
London Borough of Hackney	May 2000	Not Applicable
London Borough of Haringey - Planning Department	May 2000	Not Applicable
London Borough of Islington - Environmental Health Department	May 2000	Not Applicable
London Borough of Waltham Forest - Environmental Health Department	May 2000	Not Applicable
Westminster City Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Thames Region - North East Area	June 2015	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2017	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
London Borough of Barnet	February 2016	Annual Rolling Update
London Borough of Camden	February 2016	Annual Rolling Update
London Borough of Enfield - Planning Department	February 2016	Annual Rolling Update
London Borough of Hackney	February 2016	Annual Rolling Update
London Borough of Haringey	February 2016	Annual Rolling Update
London Borough of Waltham Forest - Environmental Services	February 2016	Annual Rolling Update
Westminster City Council	February 2016	Annual Rolling Update
London Borough of Brent	January 2016	Annual Rolling Update
London Borough of Islington	October 2015	Annual Rolling Update
Planning Hazardous Substance Consents		
London Borough of Barnet	February 2016	Annual Rolling Update
London Borough of Camden	February 2016	Annual Rolling Update
London Borough of Enfield - Planning Department	February 2016	Annual Rolling Update
London Borough of Hackney	February 2016	Annual Rolling Update
London Borough of Haringey	February 2016	Annual Rolling Update
London Borough of Waltham Forest - Environmental Services	February 2016	Annual Rolling Update
Westminster City Council	February 2016	Annual Rolling Update
London Borough of Brent	January 2016	Annual Rolling Update
London Borough of Islington	October 2015	Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2017	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	October 2015	As notified
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2016	Quarterly
Points of Interest - Education and Health PointX	December 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2016	Quarterly
Points of Interest - Public Infrastructure PointX	December 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2016	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2016	Bi-Annually
Areas of Adopted Green Belt		
London Borough of Barnet	February 2017	As notified
London Borough of Enfield	February 2017	As notified
London Borough of Haringey	February 2017	As notified
London Borough of Waltham Forest	February 2017	As notified
Areas of Unadopted Green Belt		
London Borough of Barnet	February 2017	As notified
London Borough of Enfield	February 2017	As notified
London Borough of Haringey	February 2017	As notified
London Borough of Waltham Forest	February 2017	As notified
Areas of Outstanding Natural Beauty		
Natural England	January 2017	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	Annually
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	January 2017	Bi-Annually
Marine Nature Reserves		
Natural England	January 2017	Bi-Annually
National Nature Reserves		
Natural England	January 2017	Bi-Annually
National Parks		
Natural England	February 2017	Bi-Annually
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites		
Natural England	January 2017	Bi-Annually
Sites of Special Scientific Interest		
Natural England	January 2017	Bi-Annually
Special Areas of Conservation		
Natural England	January 2017	Bi-Annually
Special Protection Areas		
Natural England	January 2017	Bi-Annually
World Heritage Sites		
English Heritage - National Monument Record Centre	September 2015	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

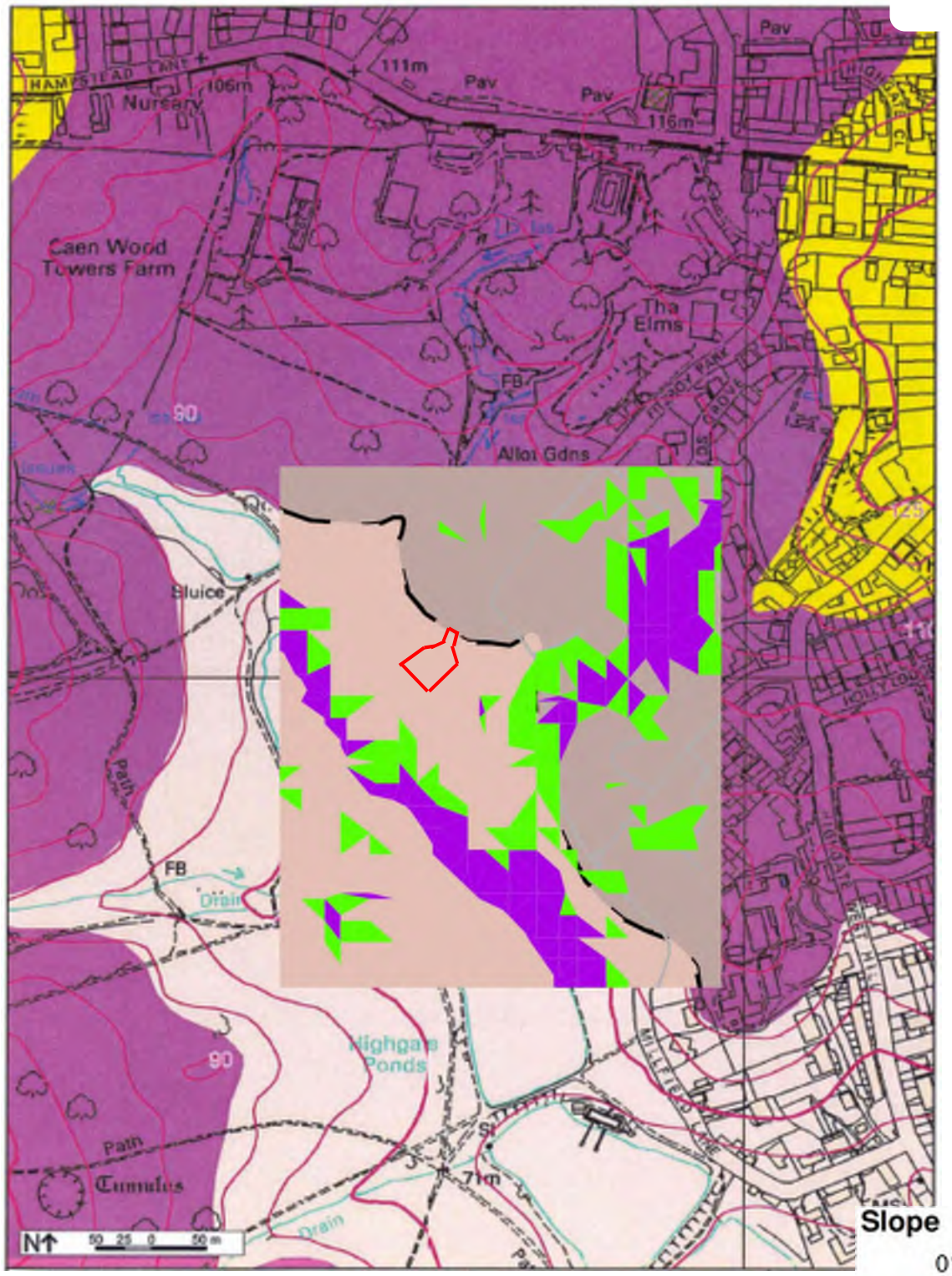
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**London Borough of Haringey - Planning and Environmental Health** 639 High Road, Tottenham, London, N17 8BD	Telephone: 0208 489 5183 Fax: 0208 489 5117 Website: www.haringey.gov.uk
4	**London Borough of Camden - Pollution Projects Team** Seventh Floor, Town Hall Extension, Argyle Street, London, WC1H 8EQ	Telephone: 020 7278 4444 Fax: 020 7860 5713 Website: www.camden.gov.uk
5	**London Borough of Camden** Town Hall, Judd Street, London, WC1H 9JE	Telephone: 020 7974 4444 Fax: 020 7974 6866 Email: info@camden.gov.uk Website: www.camden.gov.uk
6	**London Borough of Haringey - Planning Department** Civic Centre, 639 High Road, Tottenham, London, N17 8BD	Website: www.haringey.gov.uk
7	**London Borough of Barnet - Land Charges** The Town Hall, The Burroughs, Hendon, LONDON, NW4 4BQ	Telephone: 0208 3592482 Fax: 0208 3592493 Website: www.barnet.gov.uk
8	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

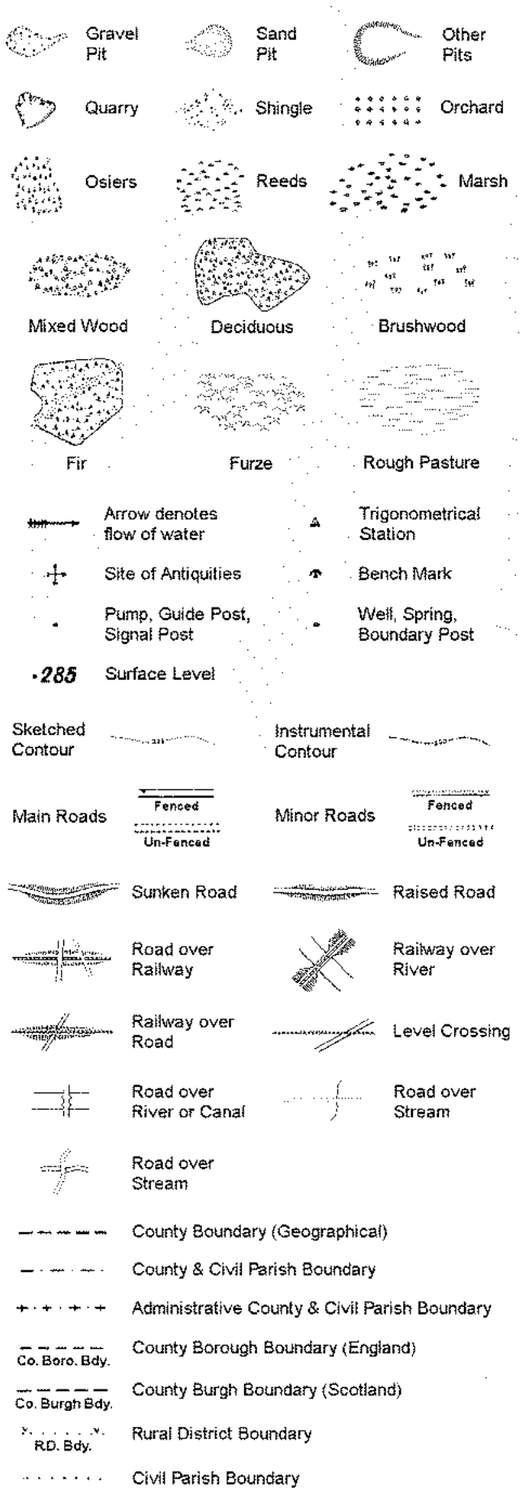
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware Herts SG12 7QE		**Site Plan Over Arup Figure 16**
Site	Wallace House, Fitzroy Park, London N6 6HT	**Job Number** J17111
Client	Derrick & Claire Dale	**Sheet** 1 / 1
Engineer		

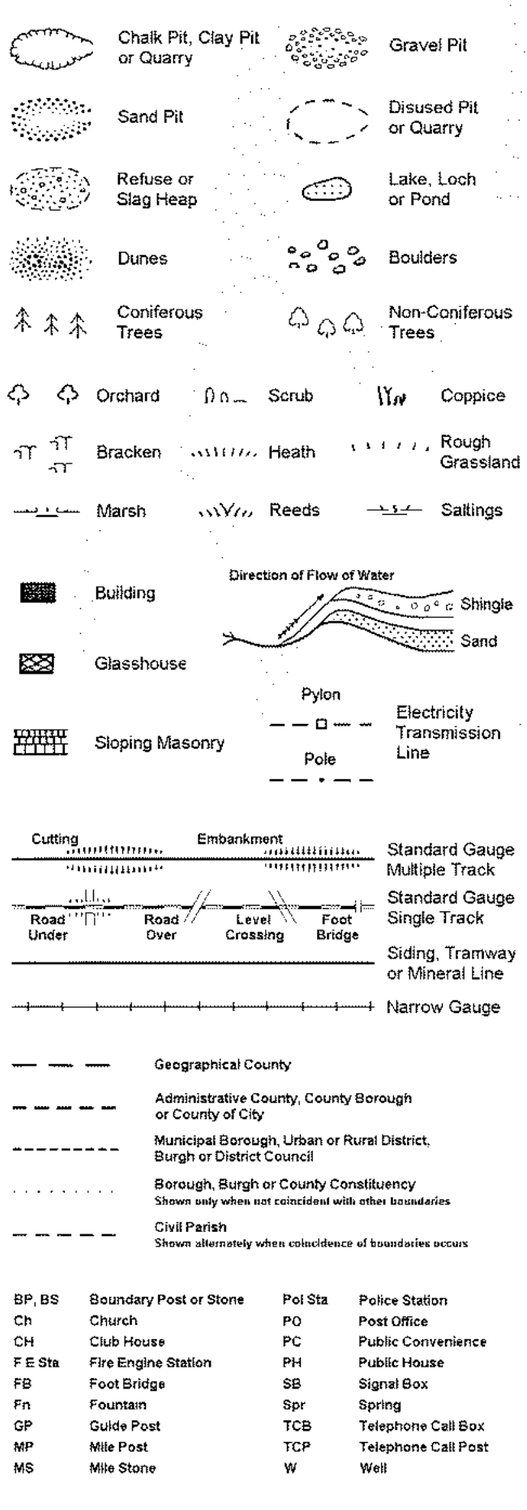


Historical Mapping Legends

Ordnance Survey County Series 1:10,560

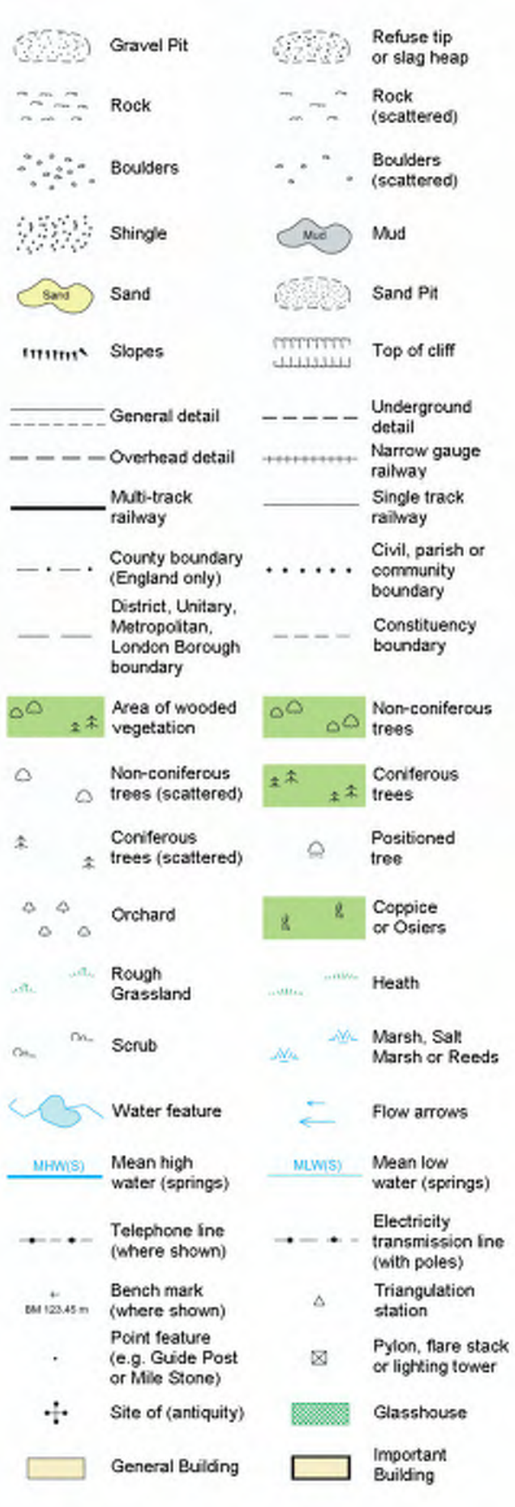


Ordnance Survey Plan 1:10,000



BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

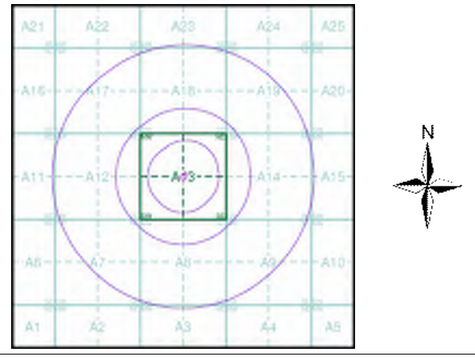


Geotechnical & Environmental Associates

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:10,560	1873	3
Middlesex	1:10,560	1879	4
London	1:10,560	1896	5
Essex	1:10,560	1920	6
London	1:10,560	1920	7
Essex	1:10,560	1938	8
Historical Aerial Photography	1:10,560	1950	9
Ordnance Survey Plan	1:10,000	1951	10
Ordnance Survey Plan	1:10,000	1958	11
Ordnance Survey Plan	1:10,000	1968	12
Ordnance Survey Plan	1:10,000	1976	13
London	1:25,000	1985	14
Ordnance Survey Plan	1:10,000	1996	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2017	18

Historical Map - Slice A



Order Details

Order Number:	123230233_1_1
Customer Ref:	J17111
National Grid Reference:	527710, 187010
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	1000

Site Details

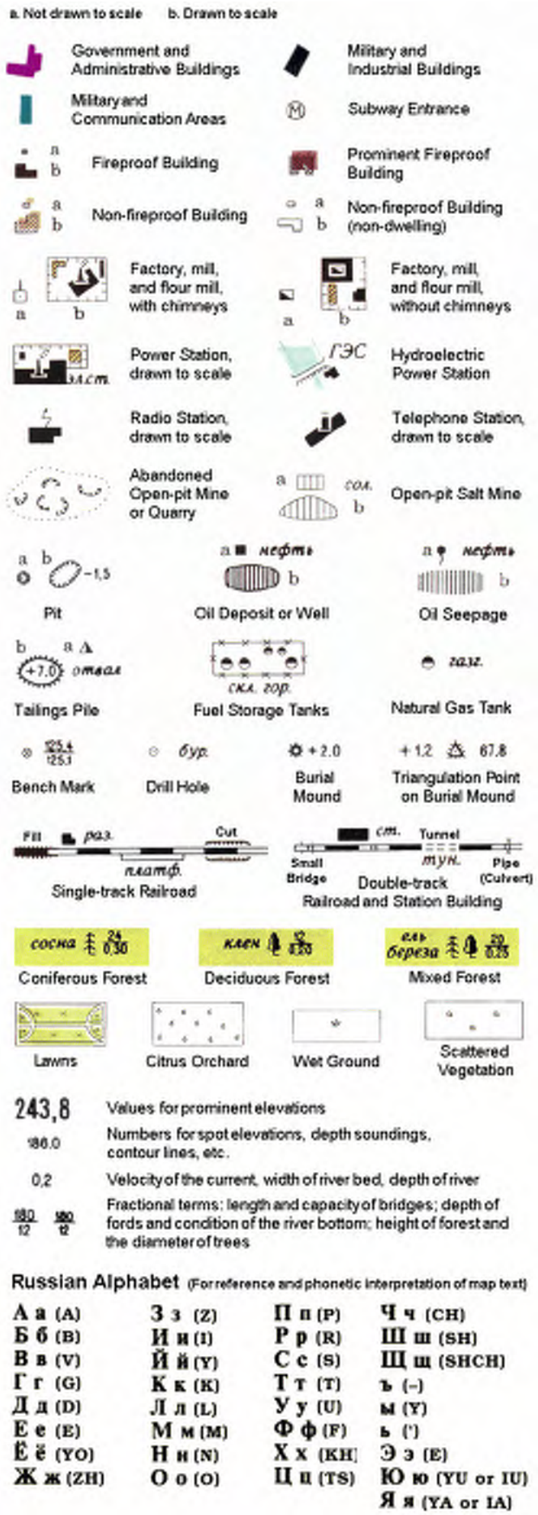
Wallace House, Fitzroy Park, LONDON, N6 6HT

Landmark INFORMATION GROUP

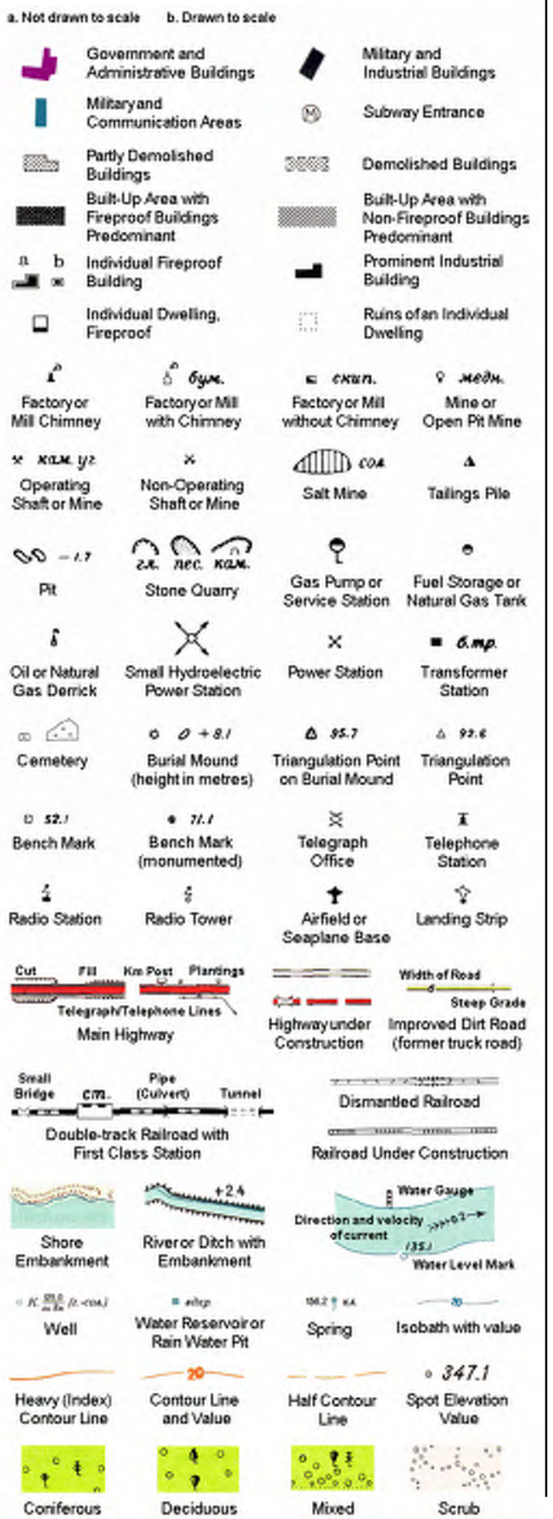
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping



1:25,000 mapping



Key to Numbers on Mapping

GEA Geotechnical & Environmental Associates

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:10,560	1873	3
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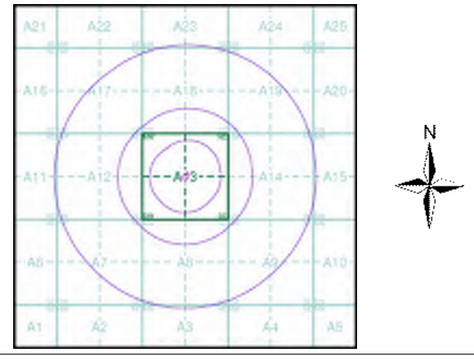
VectorMap Local	1:10,000	2017	18

Russian Map - Slice A



Order Details

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Site Area (Ha): 0.18
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Fax: 0844 844 9951
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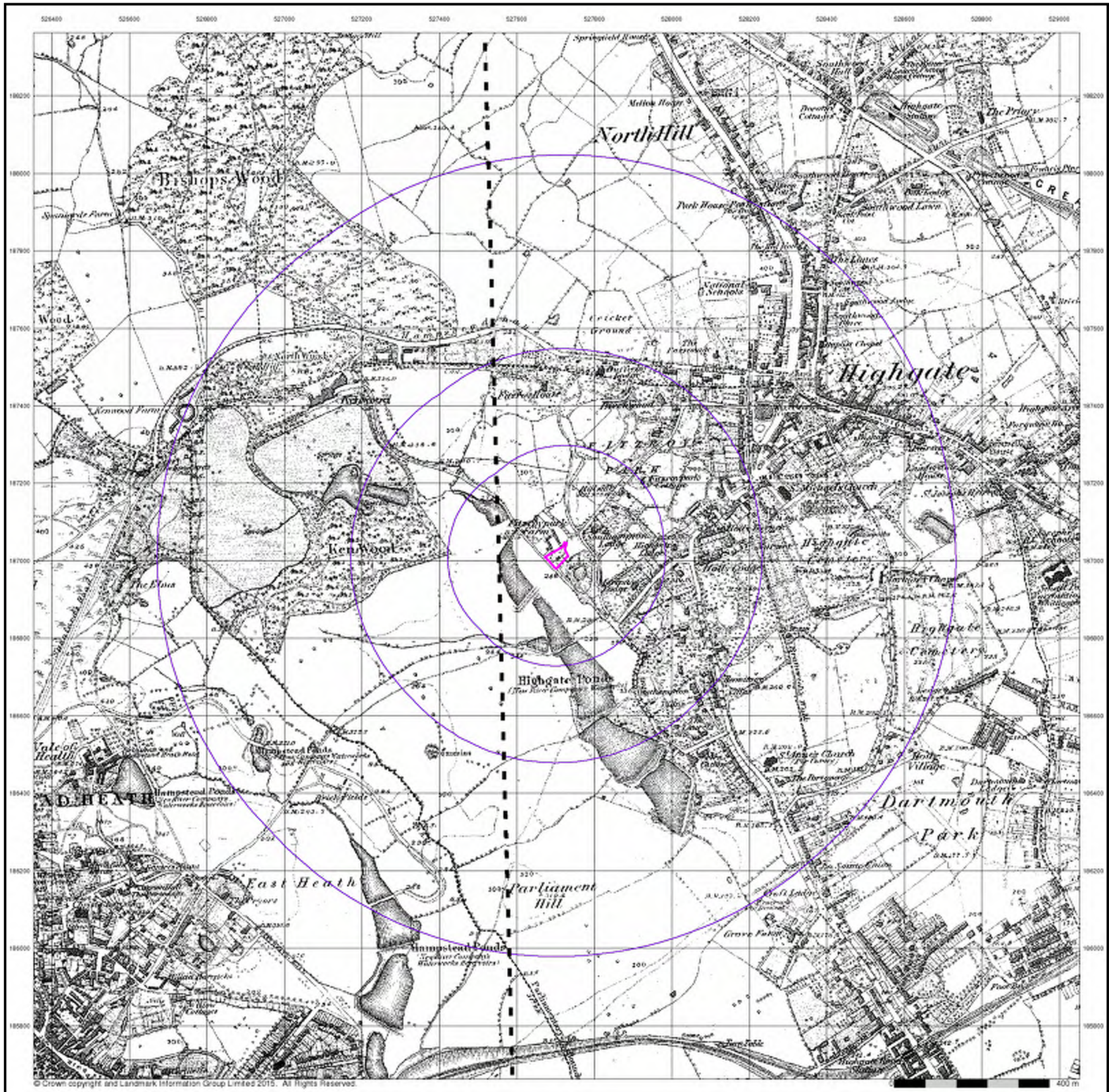


GEA Geotechnical & Environmental Associates

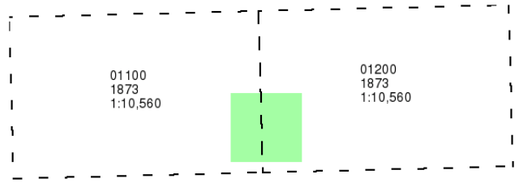
Middlesex

Published 1873

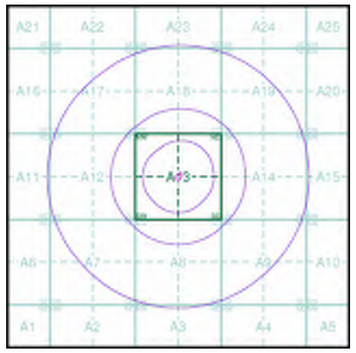
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	123230233_1_1
Customer Ref:	J17111
National Grid Reference:	527710, 187010
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	1000

Site Details

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Landmark INFORMATION GROUP
Tel: 0844 844 9952
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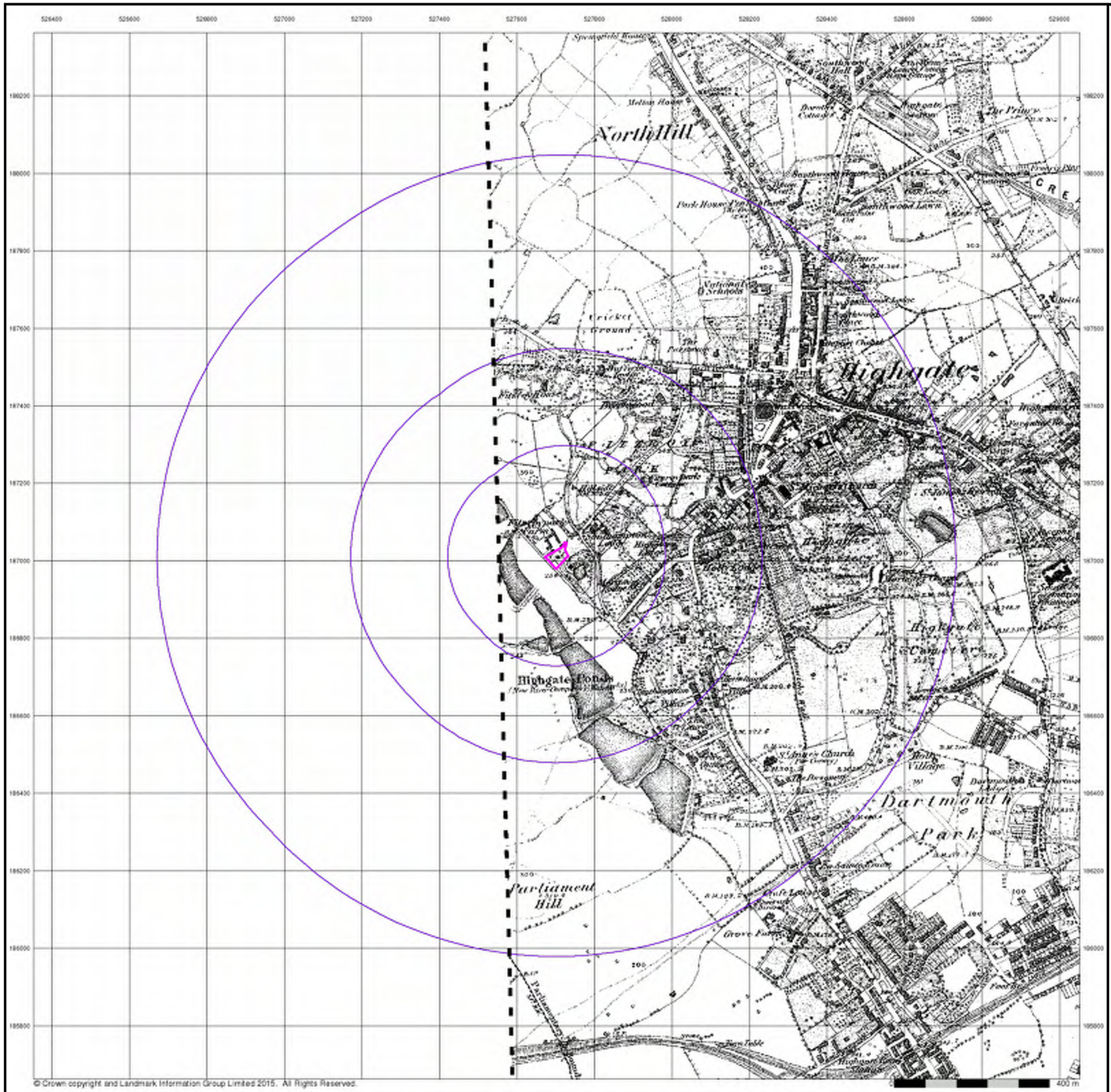

GEA Geotechnical & Environmental Associates

Middlesex

Published 1879

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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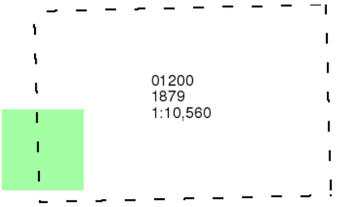
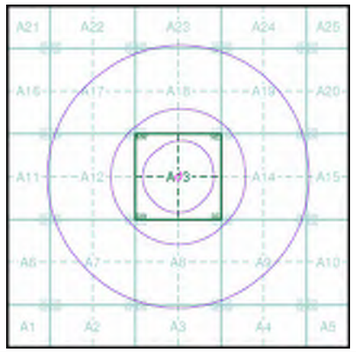


Historical Map - Slice A



Order Details

Order Number:	123230233_1_1
Customer Ref:	J17111
National Grid Reference:	527710, 187010
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	1000

Site Details

Wallace House, Fitzroy Park, LONDON, N6 6HT

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

GEA Geotechnical & Environmental Associates

London

Published 1896

Source map scale - 1:10,560

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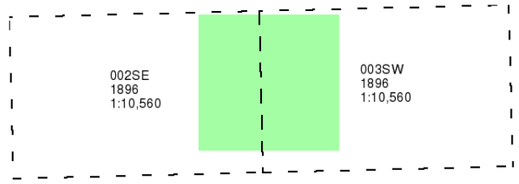
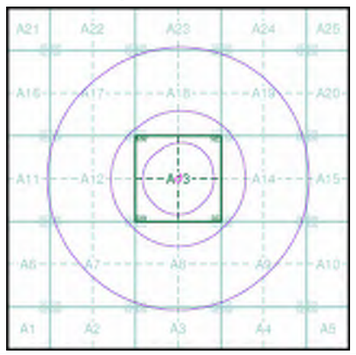
Map Name(s) and Date(s)



Historical Map - Slice A



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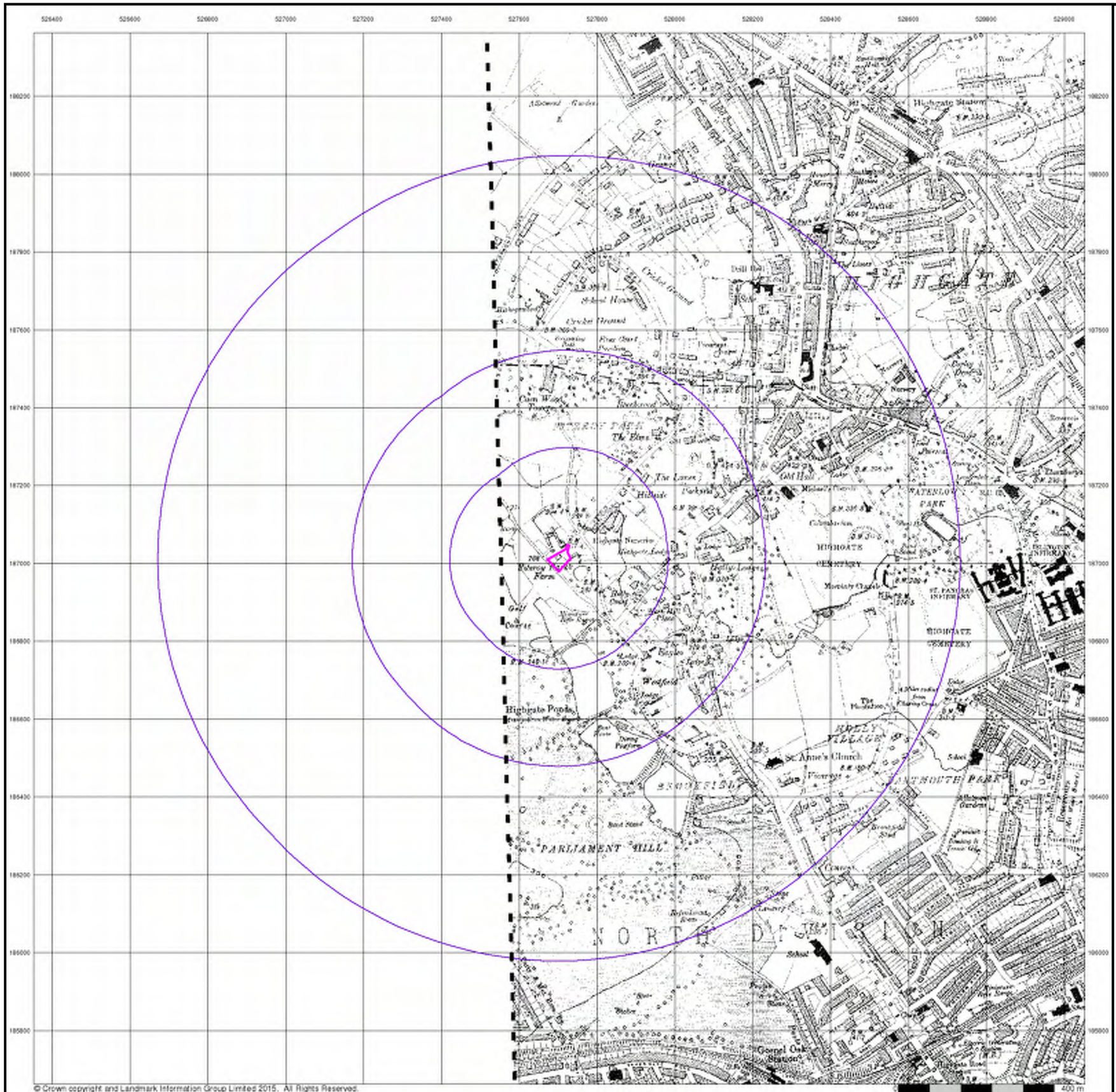
Wallace House, Fitzroy Park, LONDON, N6 6HT



GEA Geotechnical & Environmental Associates

Essex

Published 1920

Source map scale - 1:10,560

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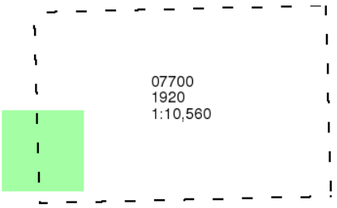
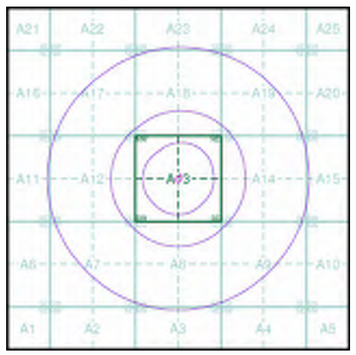


Historical Map - Slice A



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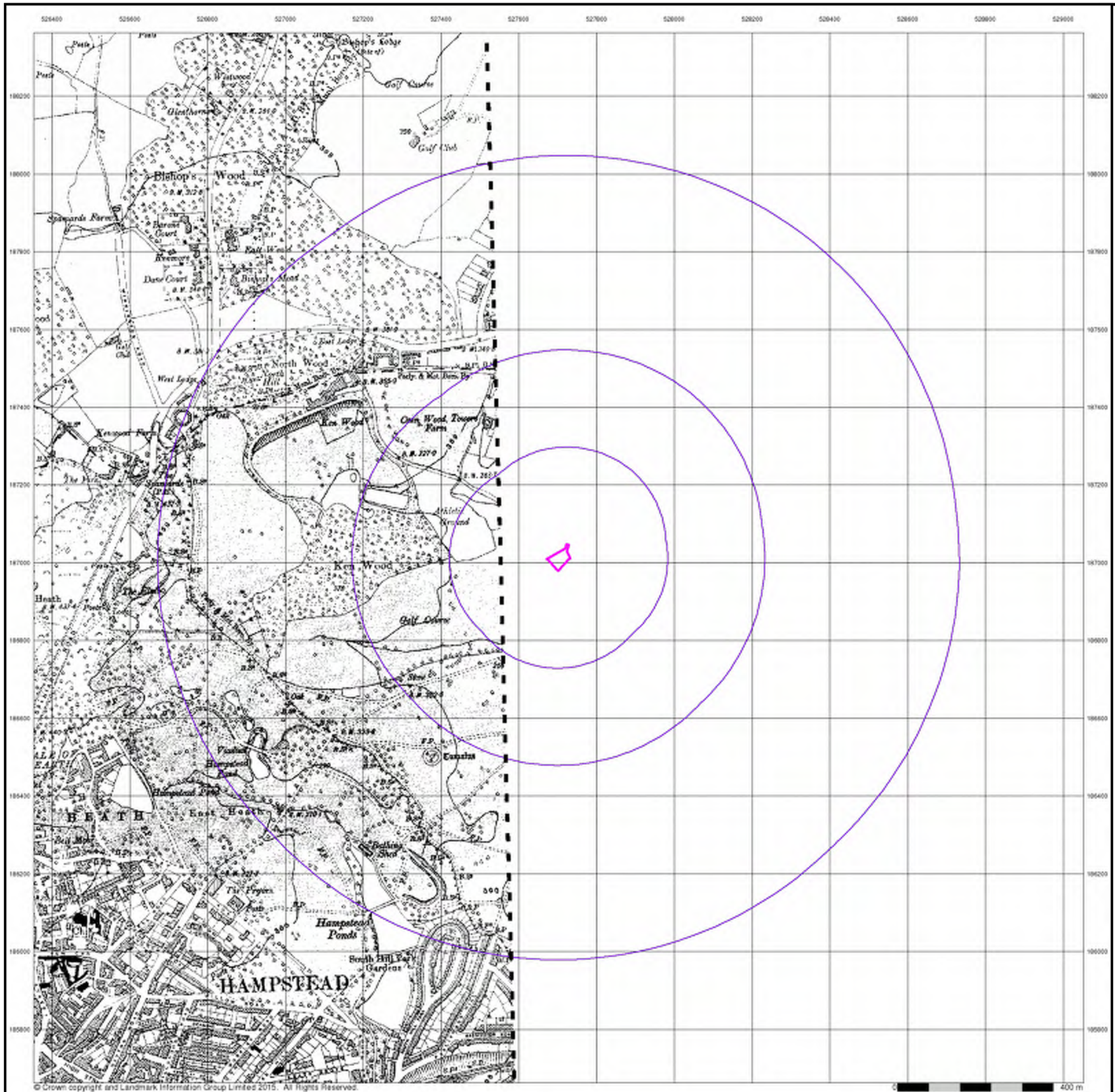

GEA Geotechnical & Environmental Associates

London

Published 1920

Source map scale - 1:10,560

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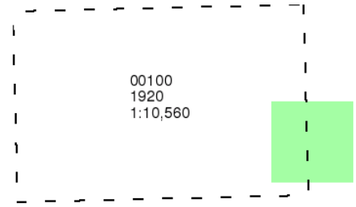
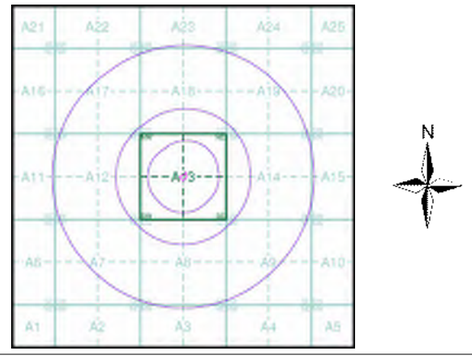


Historical Map - Slice A



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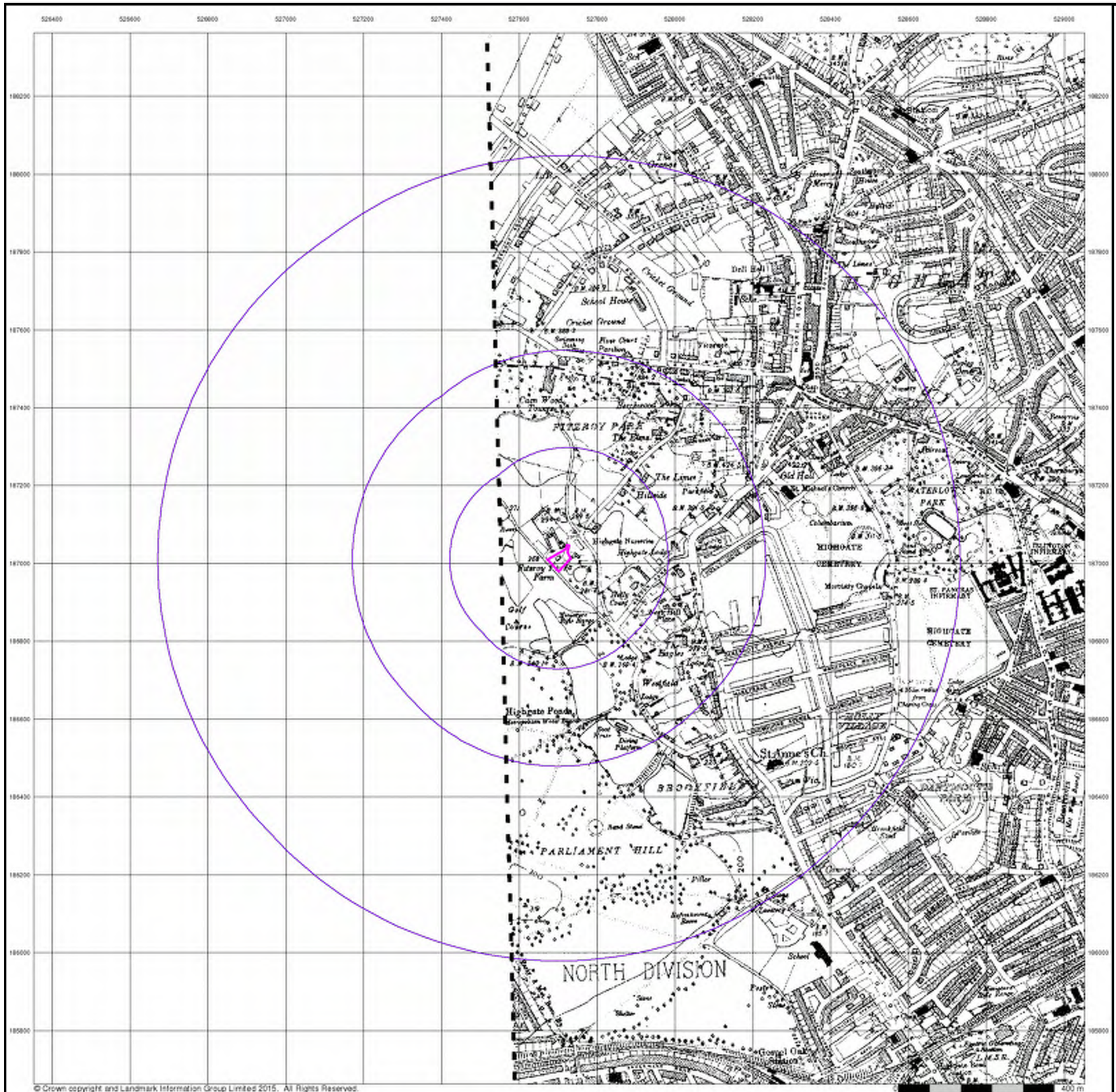

GEA Geotechnical & Environmental Associates

Essex

Published 1938

Source map scale - 1:10,560

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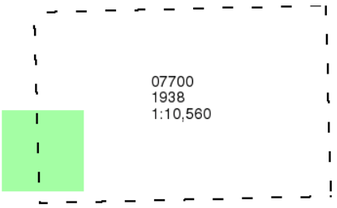
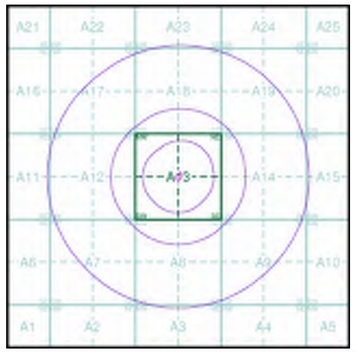
Map Name(s) and Date(s)



Historical Map - Slice A



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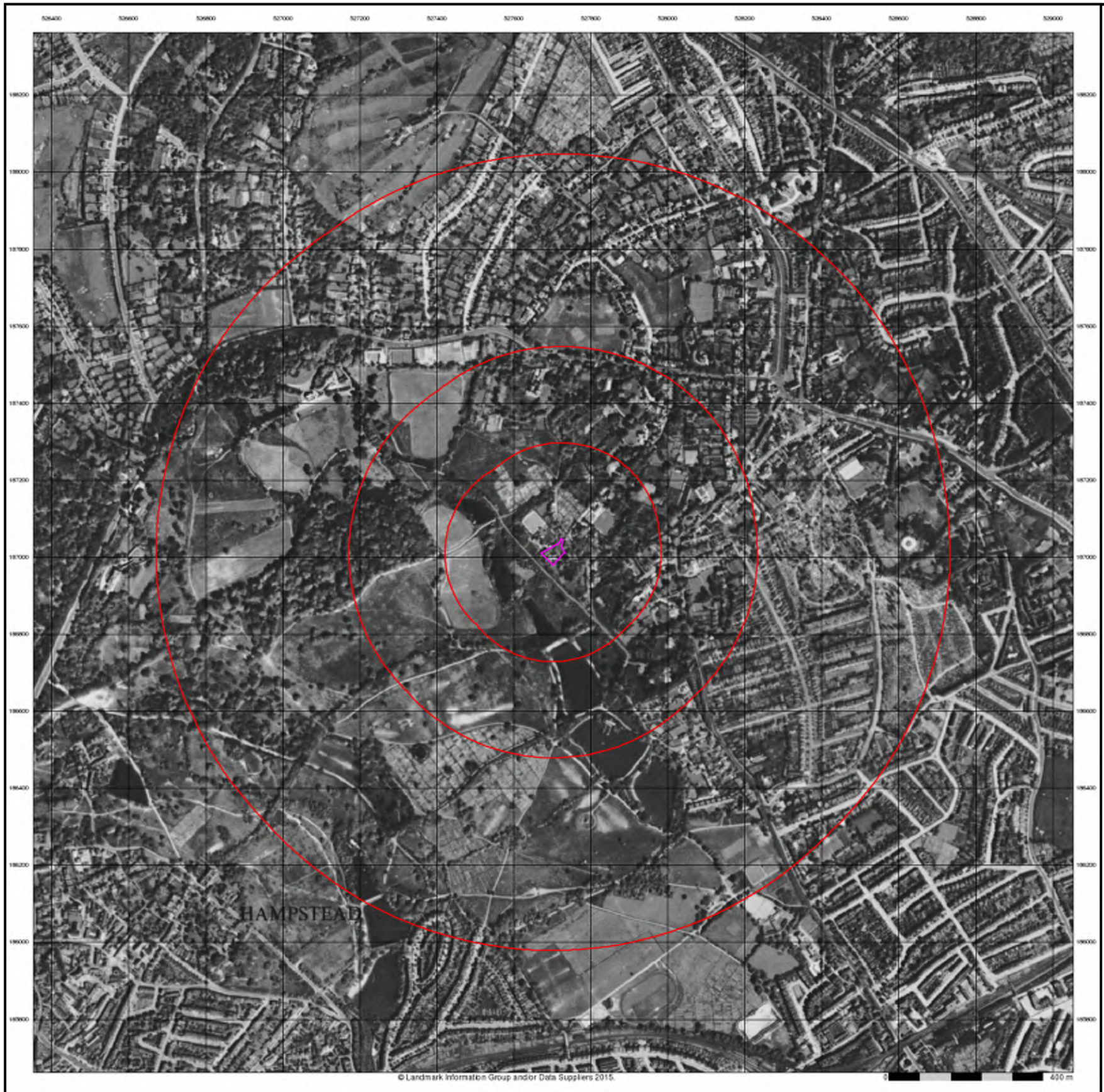


GEA Geotechnical & Environmental Associates

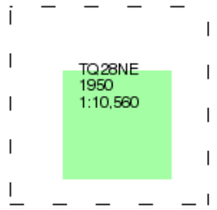
Historical Aerial Photography

Published 1950

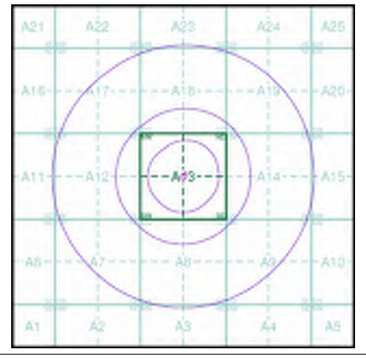
Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



BRITISH LIBRARY

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Slice:	A
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GEA Geotechnical & Environmental Associates

Ordnance Survey Plan

Published 1951

Source map scale - 1:10,000

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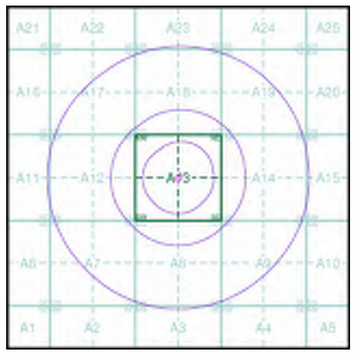
Map Name(s) and Date(s)

TQ28NE
1951
1:10,560

Historical Map - Slice A



Order Details

Order Number:	123230233_1_1
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GEA Geotechnical & Environmental Associates

Ordnance Survey Plan

Published 1958

Source map scale - 1:10,000

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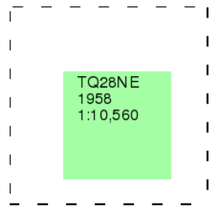
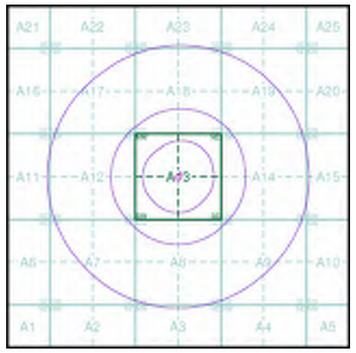


Historical Map - Slice A



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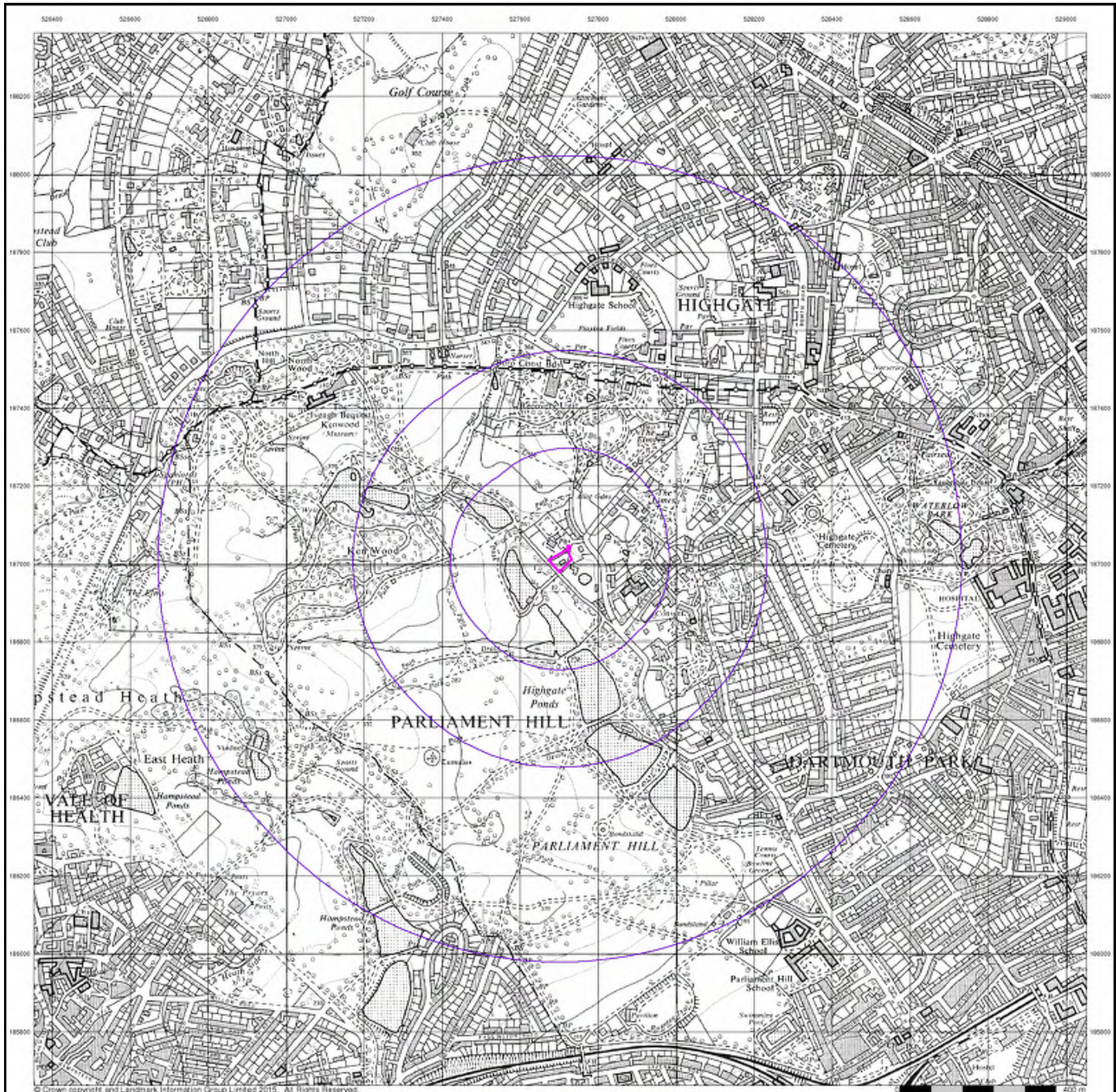

GEA Geotechnical & Environmental Associates

Ordnance Survey Plan

Published 1968

Source map scale - 1:10,000

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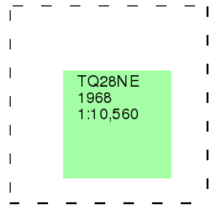
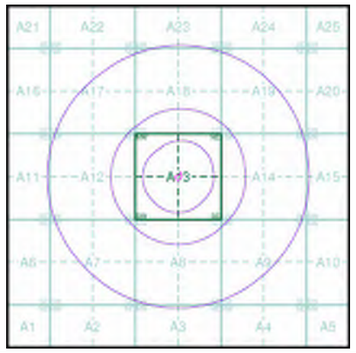


Historical Map - Slice A



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GEA Geotechnical & Environmental Associates

Ordnance Survey Plan

Published 1976

Source map scale - 1:10,000

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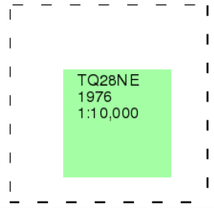
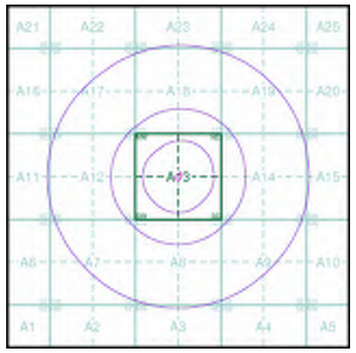
Map Name(s) and Date(s)



Historical Map - Slice A



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Ordnance Survey Plan

Published 1996

Source map scale - 1:10,000

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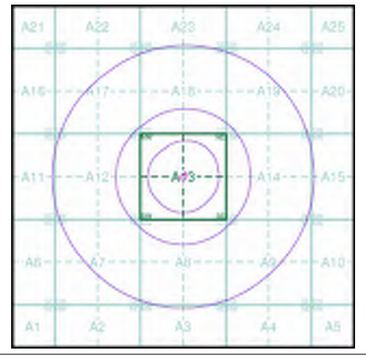
Map Name(s) and Date(s)

TQ28NE
1996
1:10,000

Historical Map - Slice A



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GEA Geotechnical & Environmental Associates

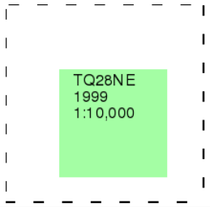
10k Raster Mapping

Published 1999

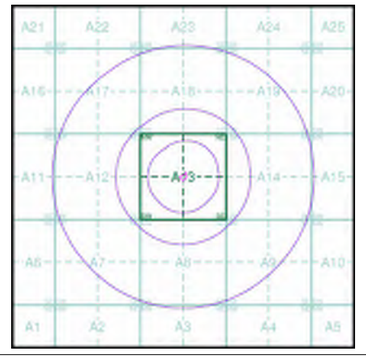
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



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Published 2006

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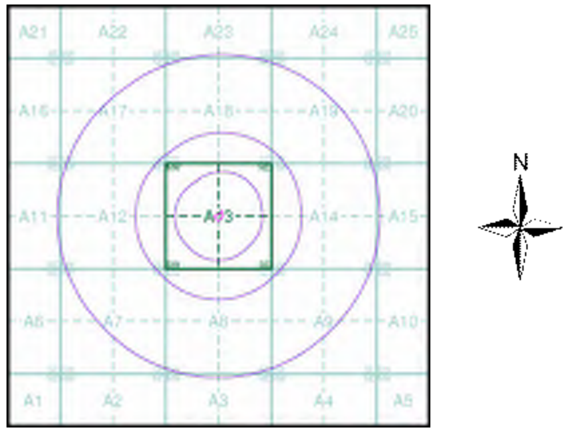
Map Name(s) and Date(s)

TQ28NE
2006
1:10,000

Historical Map - Slice A



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Geotechnical & Environmental Associates

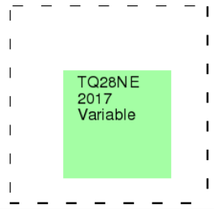
VectorMap Local

Published 2017

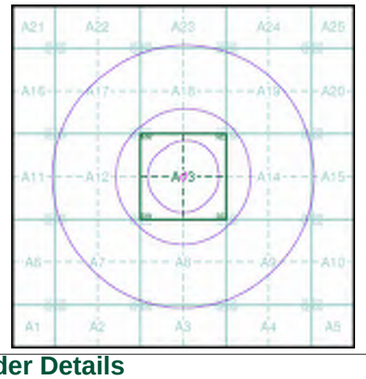
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

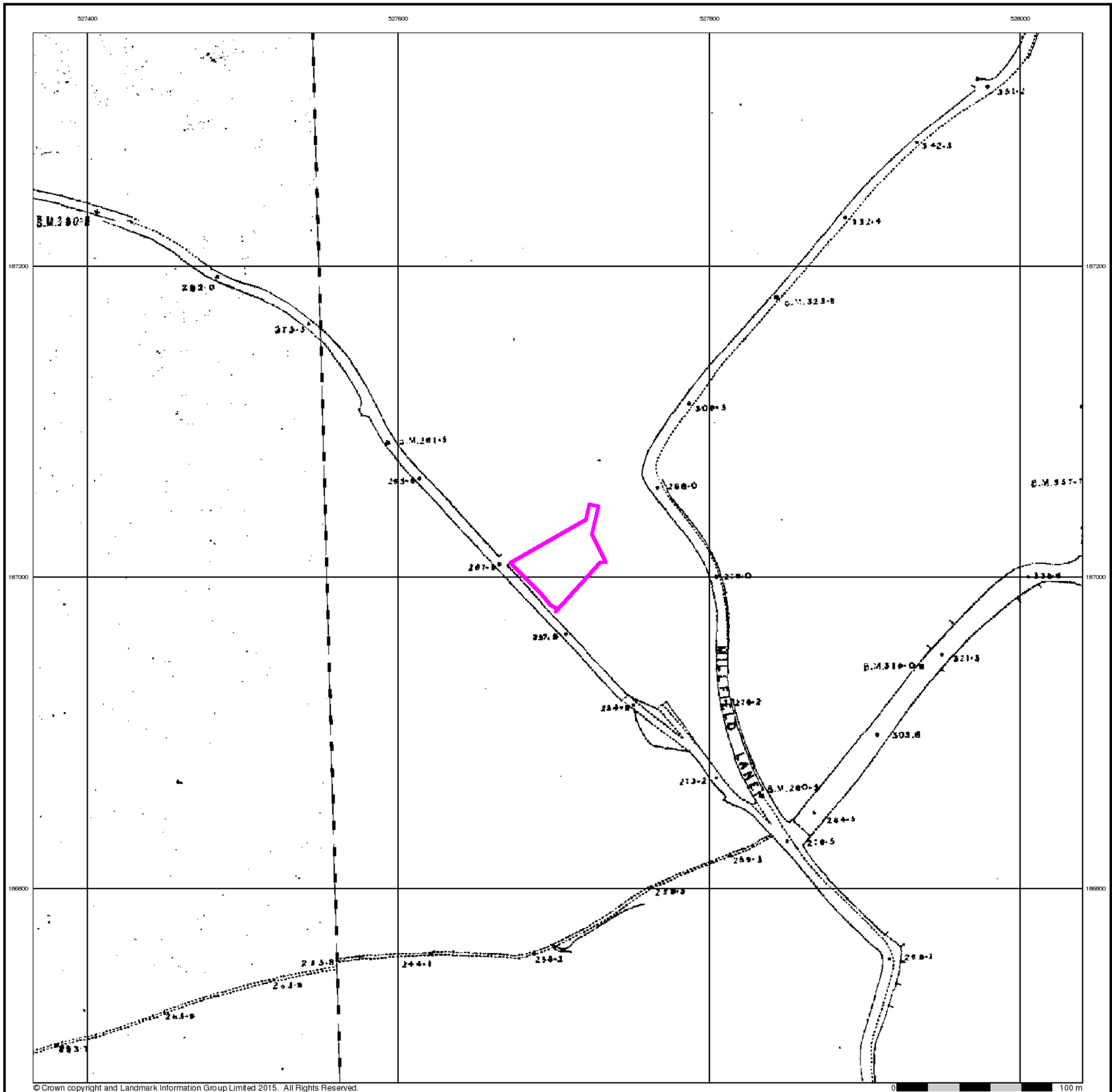
Order Number:	123230233_1_1
Customer Ref:	J17111
National Grid Reference:	527710, 187010
Slice:	A
Site Area (Ha):	0.18
Search Buffer (m):	1000

Site Details

Wallace House, Fitzroy Park, LONDON, N6 6HT

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



GEA Geotechnical & Environmental Associates

London

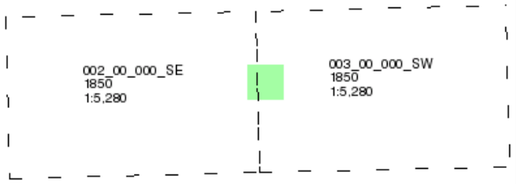
Published 1850

Source map scale - 1:5,280

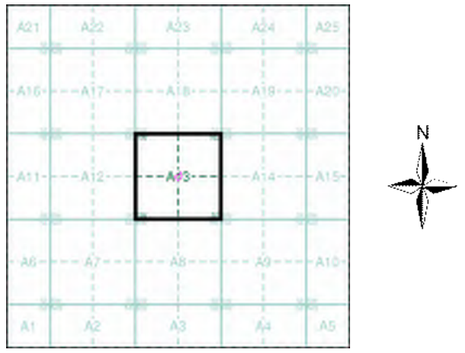
The historical town plans shown derive from Ordnance Survey mapping from the early to mid 1850s. The 1:2640 scale was introduced in the early 1850s, to survey districts covered by the Local Boards of Health and for a map of the Osborne Estate of Queen Victoria. The general style is similar to that of the early 1:2500s published shortly afterwards.
1:5280 scale was surveyed shortly afterwards in the mid 1850s as general purpose mapping with a standard of content similar to the more contemporary 1:10.560 mapping. The scale was also used for a reduction of the 1:1056 'skeleton survey' of London that was undertaken between 1848 and 1850.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)



Historical Town Plan - Segment A13



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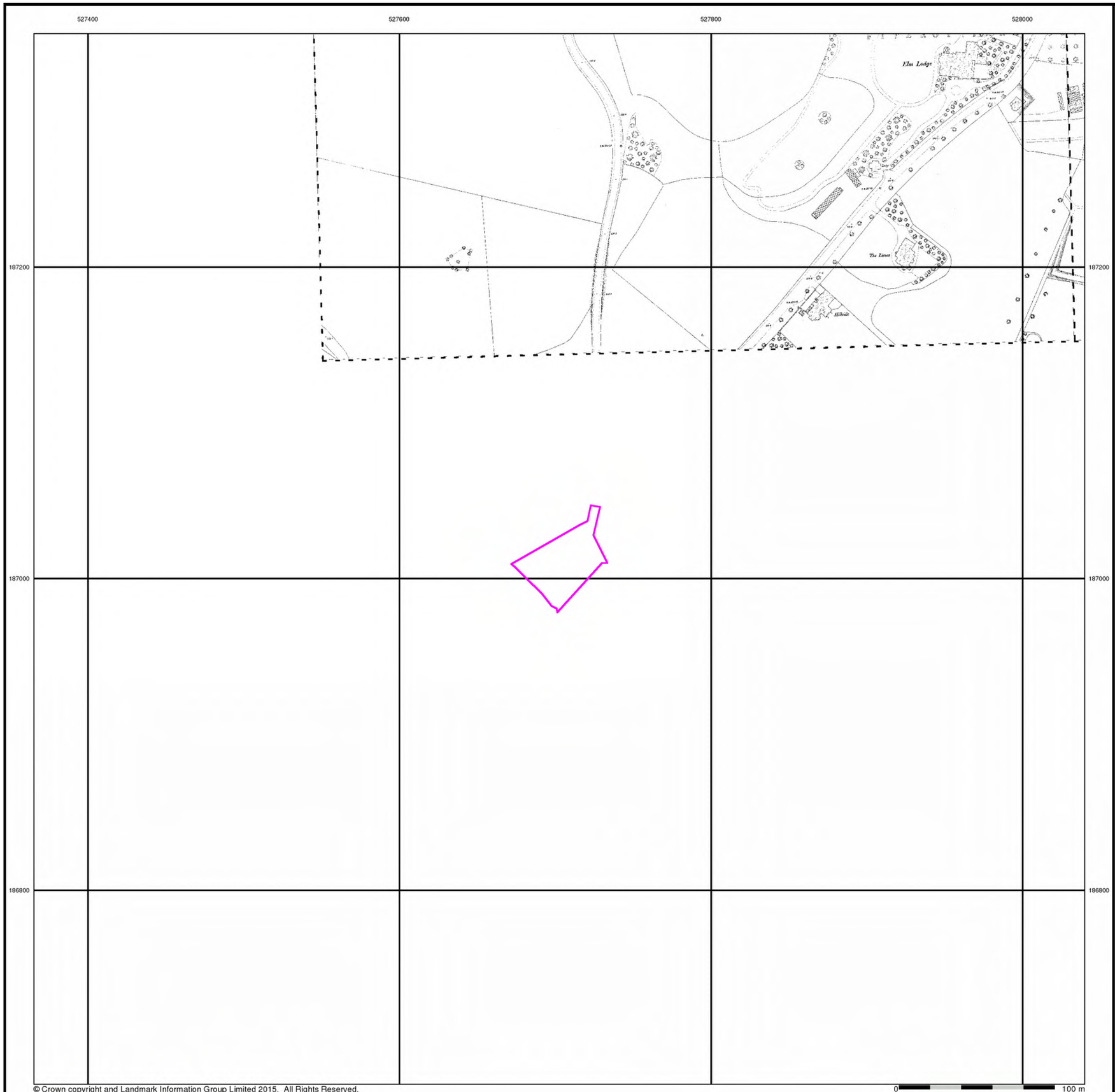

GEA Geotechnical & Environmental Associates

Middlesex

Published 1895

Source map scale - 1:528

The 1:528 scale Ordnance Survey mapping was adopted in 1850 as an alternative to the 1:1056 scale, that had been deemed to be inadequate for sanitary planning, which had come very much to the fore following the passing of the Public Health Act of 1948. Around 29 towns in England and Wales were surveyed at this scale, the bulk of which were undertaken between 1850 and 1855. These were predominantly towns that were outside the areas being surveyed at 1:10,560 or 1:2500 scale. As well as showing the details characteristic of the later 1:500 plans, they show features of sanitary interest such as privies, taps, cow houses, cess pits, brew and bake houses and cart sheds and stables.

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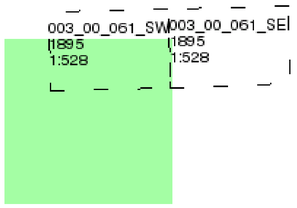
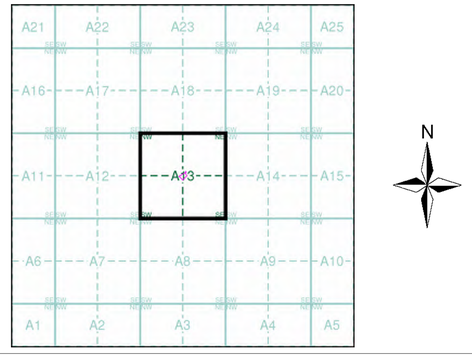
Map Name(s) and Date(s)



Historical Town Plan - Segment A13



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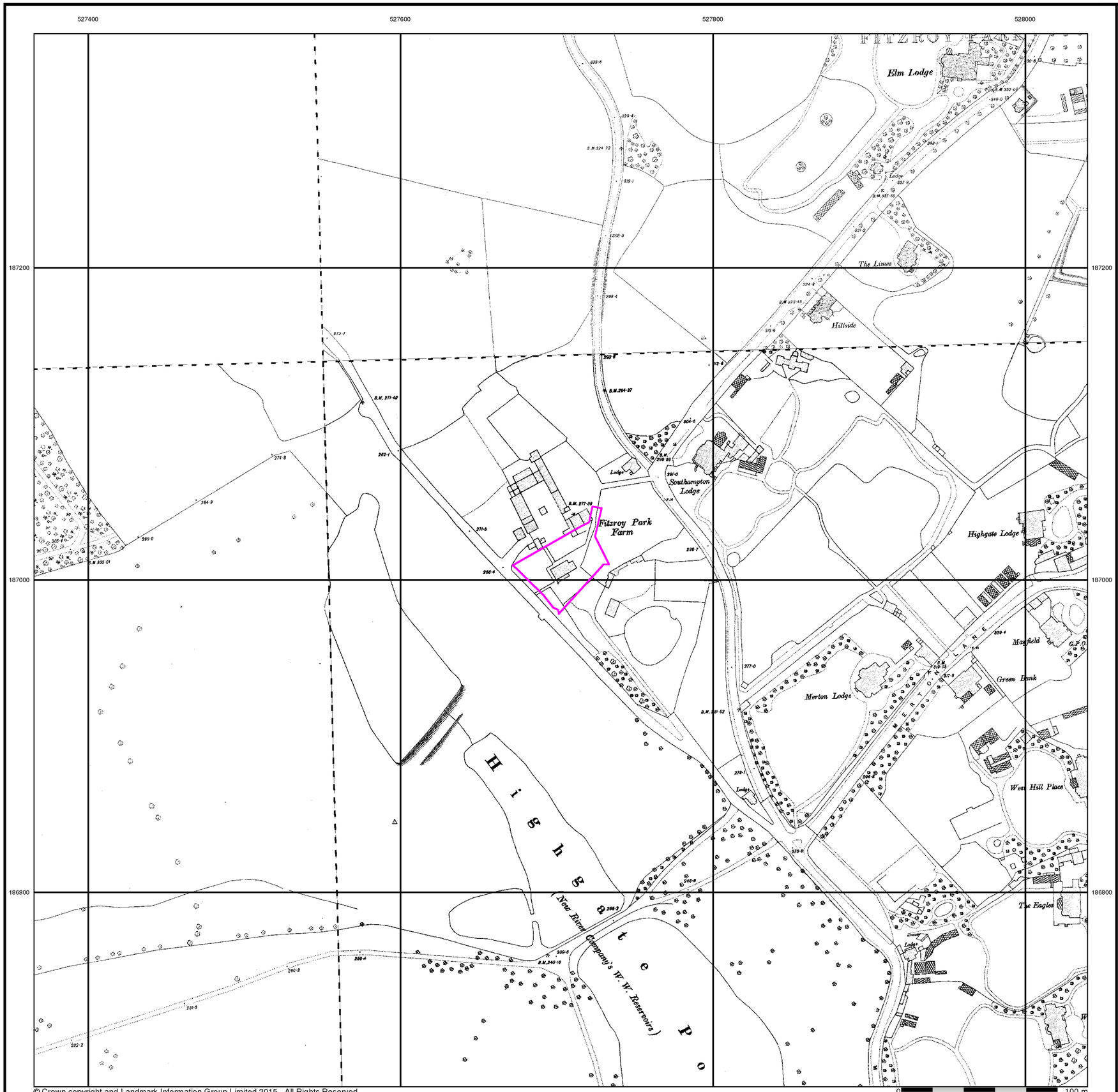


GEA Geotechnical & Environmental Associates

London

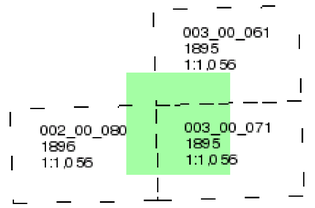
Published 1895 - 1896

Source map scale - 1:1,056

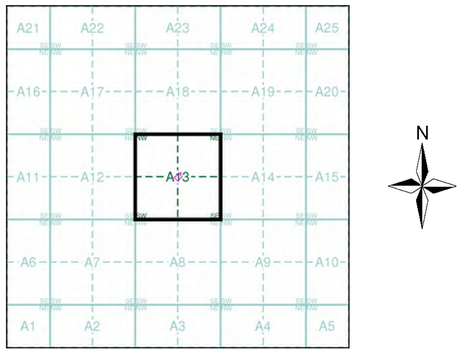
The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1848 and was used to survey towns with a population of over 4000, plus county towns of lesser population, in those counties mapped at the six-inch scale in 1841-55. The scale was the largest scale at which London was mapped by the Ordnance Survey and a 'skeleton' survey of the capital, showing little more than streets, street names, frontages and altitudes, was undertaken between 1848 and 1850. The majority of the 1:1056 surveys were later replaced by 1:500 surveys; although almost all the remainder were revised at this scale, sometimes more than once before 1895. The type of detail shown on the 1:1056 scale is broadly similar to that on 1:500; the apparent omission of minor details such as sewer access points and street lights may be as much a reflection of the generally earlier date of these plans, as of the specification of the map.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)



Historical Town Plan - Segment A13



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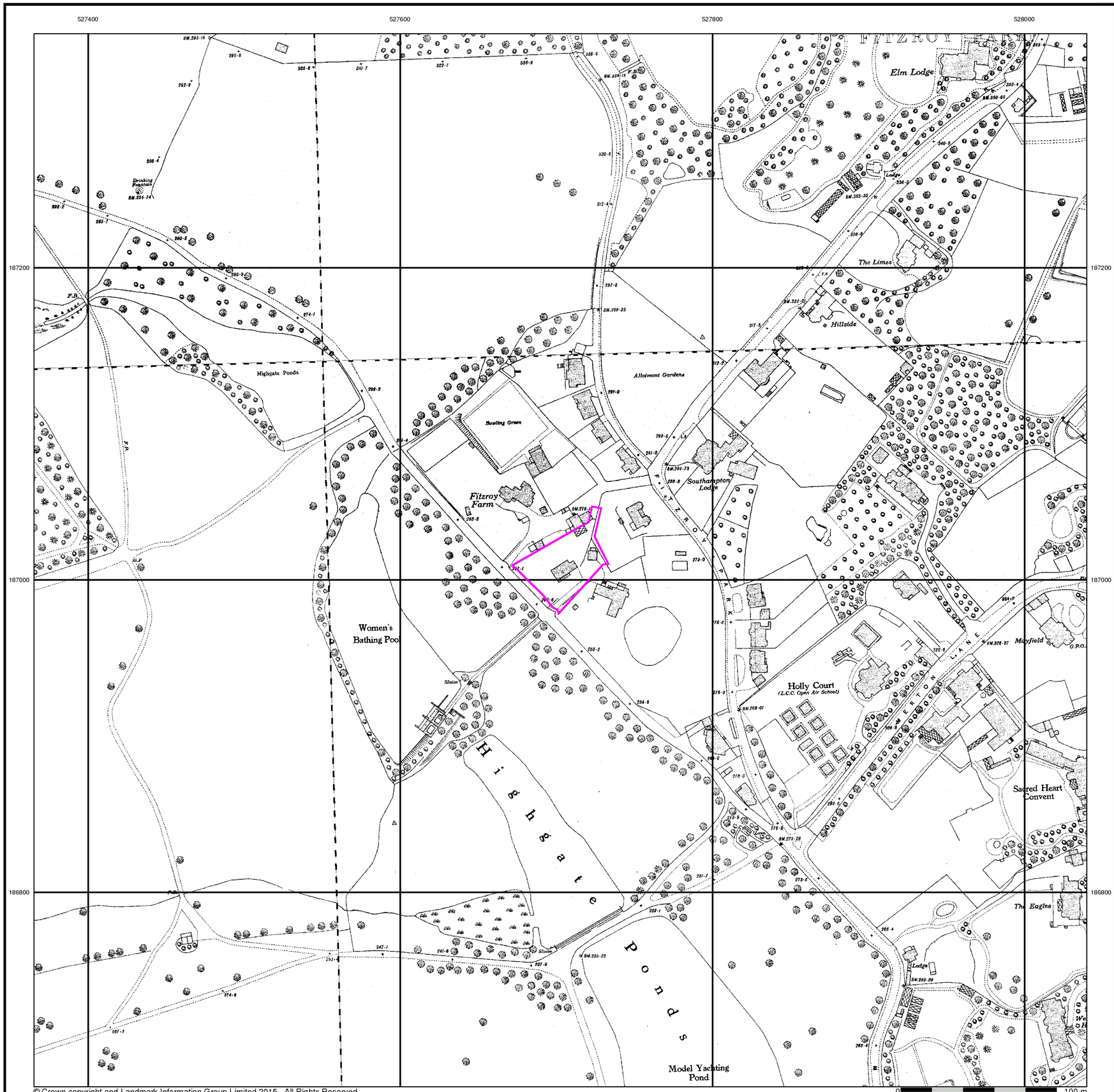

GEA Geotechnical & Environmental Associates

London

Published 1936 - 1937

Source map scale - 1:1,056

The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1848 and was used to survey towns with a population of over 4000, plus county towns of lesser population, in those counties mapped at the six-inch scale in 1841-55. The scale was the largest scale at which London was mapped by the Ordnance Survey and a 'skeleton' survey of the capital, showing little more than streets, street names, frontages and altitudes, was undertaken between 1848 and 1850. The majority of the 1:1056 surveys were later replaced by 1:500 surveys; although almost all the remainder were revised at this scale, sometimes more than once before 1895. The type of detail shown on the 1:1056 scale is broadly similar to that on 1:500; the apparent omission of minor details such as sewer access points and street lights may be as much a reflection of the generally earlier date of these plans, as of the specification of the map.

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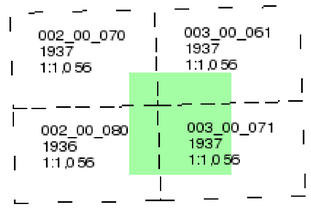
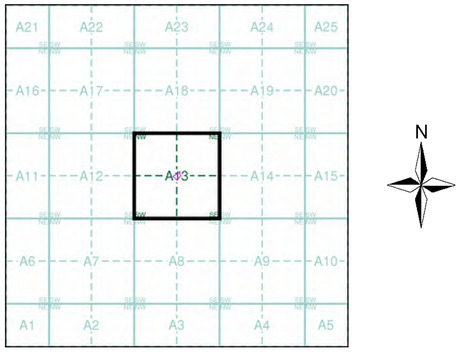
Map Name(s) and Date(s)



Historical Town Plan - Segment A13



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