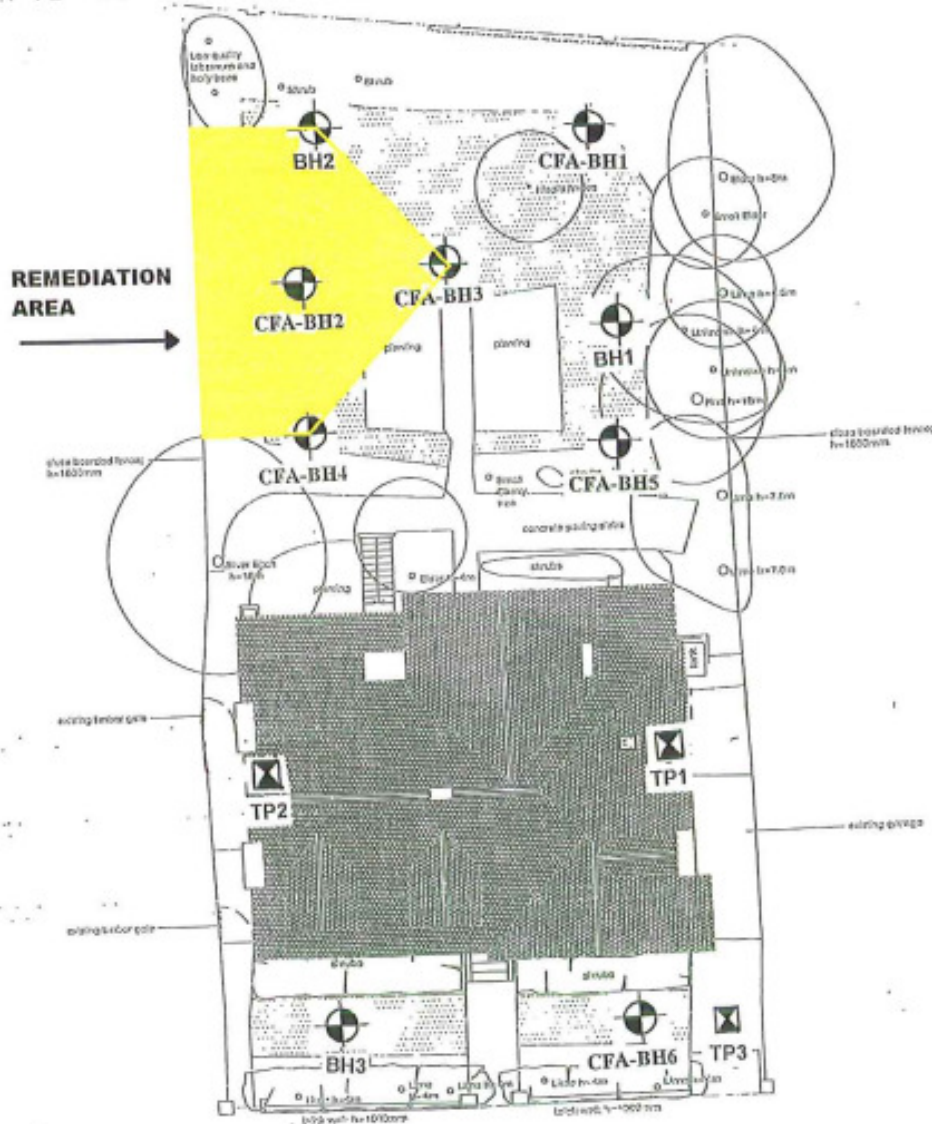
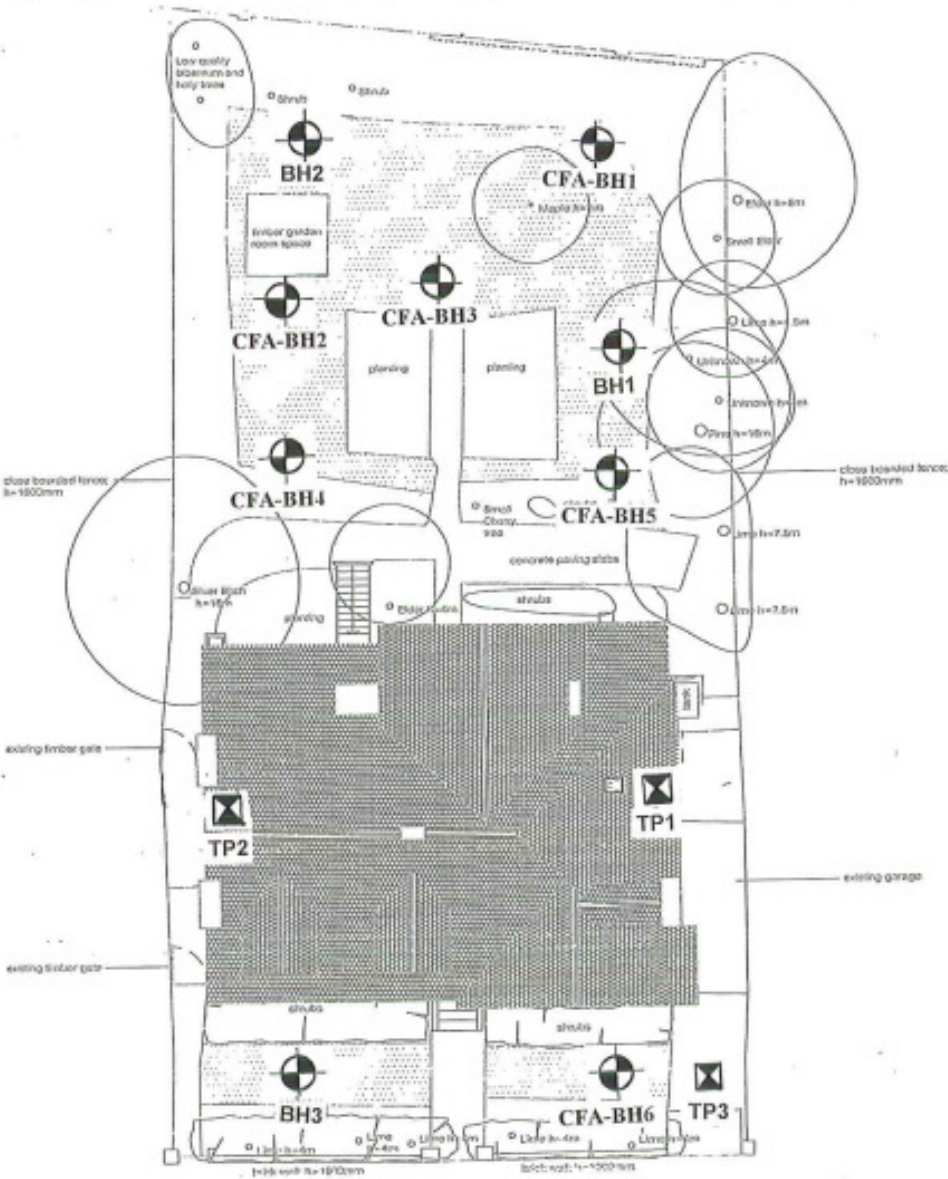


	Site Analytical Services Ltd.		REF: 11/18172
	LOCATION:	16 Daleham Gardens, London, NW3 5DA	FIG: 1
	TITLE:	Site Sketch Plan	DATE: July 2011
			SCALE: NTS

	Site Analytical Services Ltd.		REF: 11/18172
	LOCATION:	16 Daleham Gardens, London, NW3 5DA	FIG: 1a
	TITLE:	Remediation Site Plan	DATE: July 2011
			SCALE: NTS

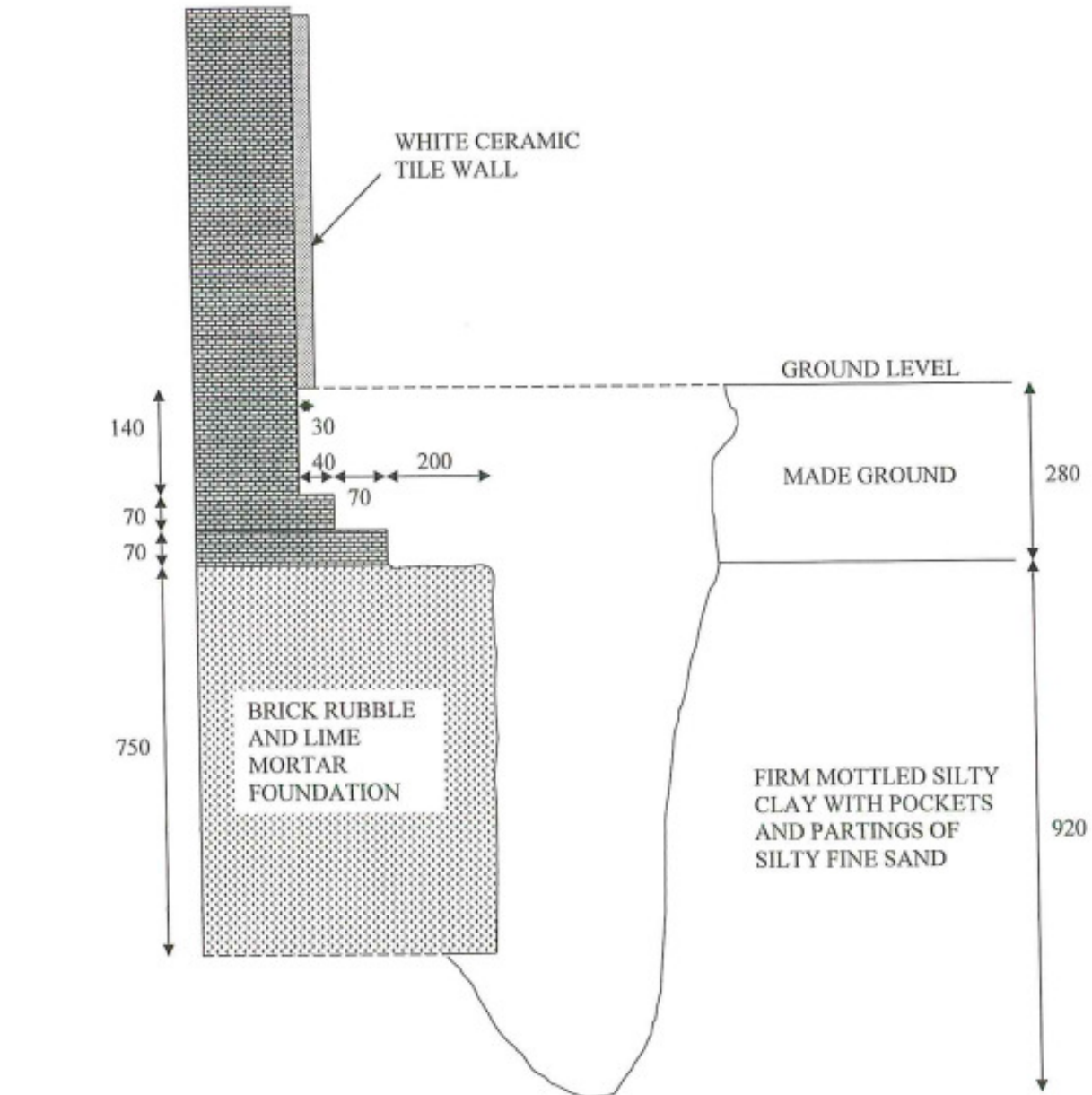


S

A

S

Site Analytical Services Ltd.		REF: 11/18172
LOCATION:	16 Daleham Gardens, London, NW3 5DA	FIG: 2
TITLE:	Trial Pit 1	DATE: July 2011
		SCALE: NTS



END OF TRIAL PIT 1 AT 1200mm DEPTH

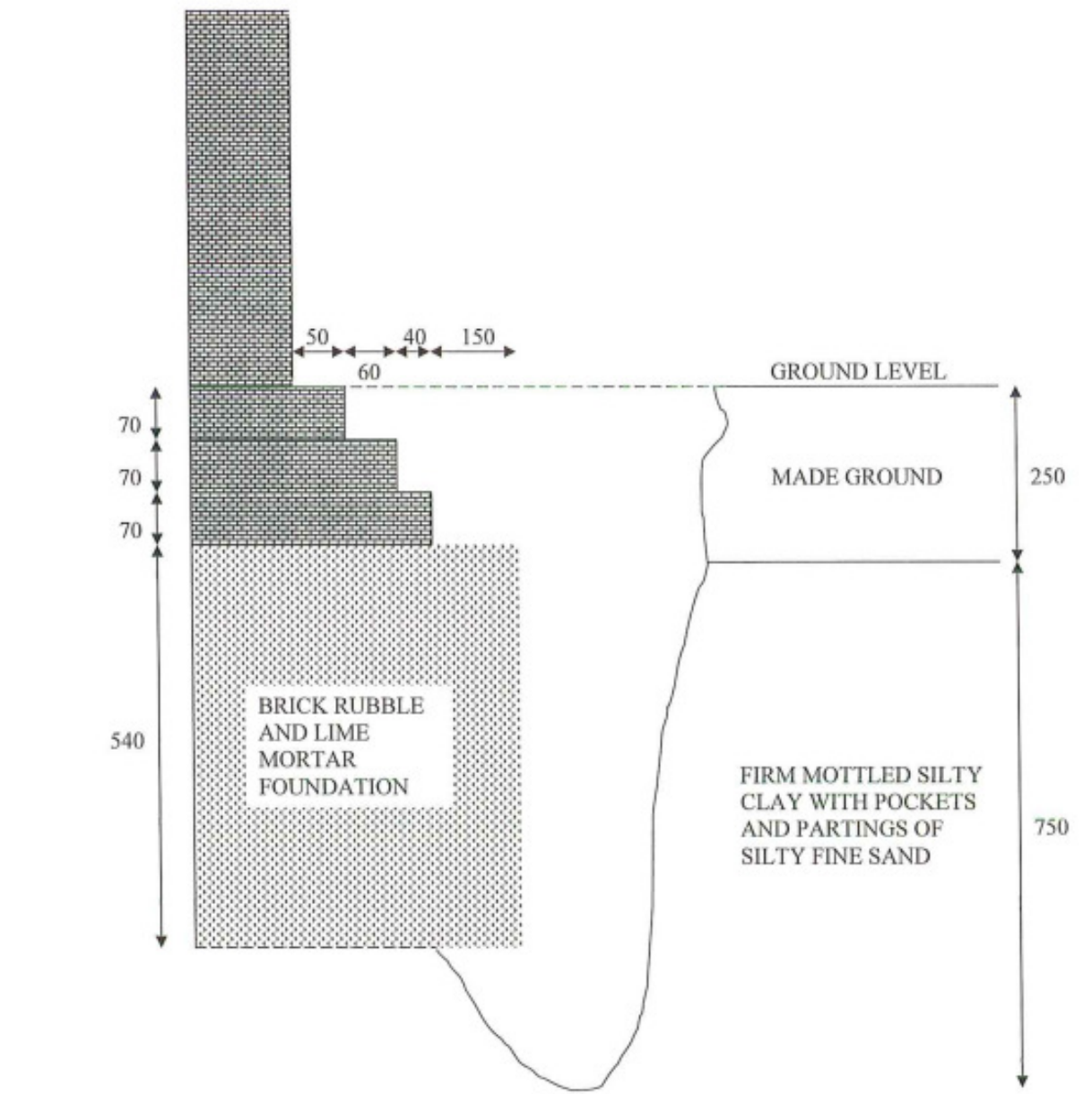
DIMENSIONS IN mm

S

A

S

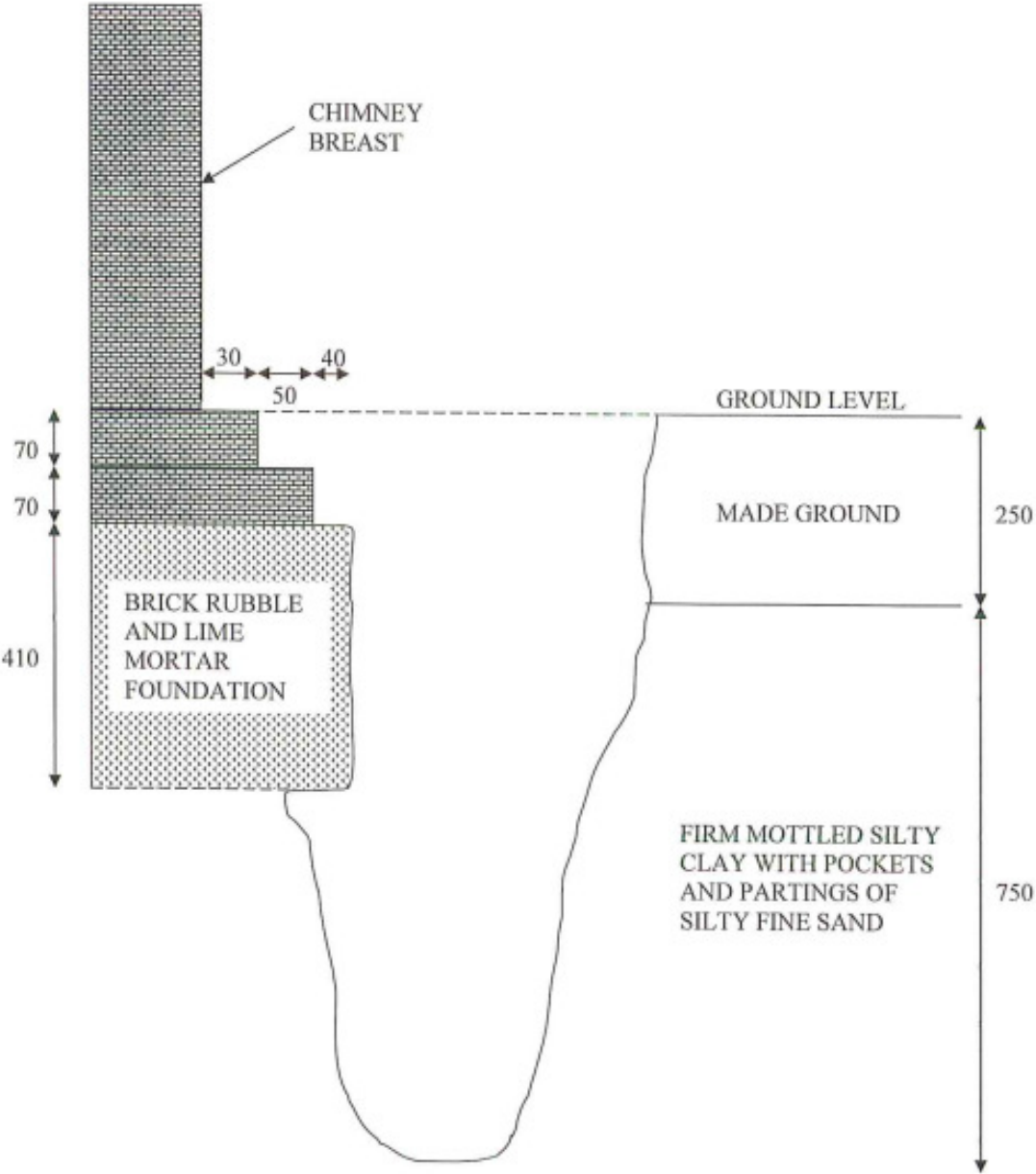
Site Analytical Services Ltd.		REF: 11/18172
LOCATION:	16 Daleham Gardens, London, NW3 5DA	FIG: 3
TITLE:	Trial Pit 2 – Face A	DATE: July 2011
		SCALE: NTS



END OF TRIAL PIT 2 – FACE A AT 1000mm DEPTH

DIMENSIONS IN mm

	Site Analytical Services Ltd.		REF: 11/18172
	LOCATION:	16 Daleham Gardens, London, NW3 5DA	FIG: 4
	TITLE:	Trial Pit 2 – Face B	DATE: July 2011
			SCALE: NTS



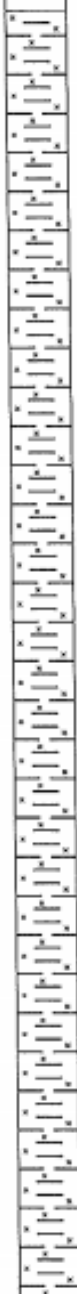
END OF TRIAL PIT 2 – FACE B AT 1000mm DEPTH

DIMENSIONS IN mm

APPENDIX 'A'

Borehole / Trial Pit Logs

Site Analytical Services Ltd.							Site		Borehole Number	
DEMOUNTABLE SHELL AND AUGER							16 DALEHAM GARDENS, LONDON, NW3 5DA		BH1	
							Client		Job Number	
							MR CHRIS HOLM		1118172	
Boring Method		Casing Diameter		Ground Level (mOD)		Engineer		Sheet		
		150mm cased to 3.00m				ELLIOTT WOOD PARTNERSHIP		1/2		
Location		Dates								
TQ 267 848		11/07/2011								
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.25-0.35	D1					(0.30)	MADE GROUND - grass over grey brown clayey silty sand, topsoil, ashes and brick rubble			
0.50-0.60	D2					0.30	MADE GROUND - medium dense brick rubble with topsoil, ashes and concrete fragments			
0.75-0.85	D3					0.80				
1.00-1.10	D4						Firm becoming stiff mottled brown, orange brown and blue grey silty CLAY with some pockets and partings of orange brown silty fine sand and occasional small segregations of gypsum and calcite			
1.20-1.65	CPT N=10		DRY	1, 1/2, 2, 2, 4						
1.20-1.65	D5									
1.85-1.95	D6									
2.00-2.45	U1	2.00	DRY	20 blows		(2.70)				
2.75-2.85	D7									
3.00-3.45	SPT N=13	3.00	DRY	3, 2/3, 3, 3, 4						
3.00-3.45	D8									
3.75-3.85	D9					3.50	Stiff becoming very stiff brown and mottled orange brown and veined blue grey silty CLAY with occasional partings of orange brown silty fine sand and scattered small gypsum crystals			
4.00-4.45	U2	3.00	DRY	25 blows						
4.75-4.85	D10									
5.00-5.45	SPT N=18	3.00	DRY	3, 3/3, 4, 5, 6						
5.00-5.45	D11									
6.00-6.10	D12					(5.00)				
6.50-6.95	U3	3.00	DRY	30 blows						
7.50-7.60	D13									
8.00-8.45	SPT N=22	3.00	DRY	3, 4/4, 5, 6, 7						
8.00-8.45	D14					8.50	Very stiff dark grey brown fissured silty CLAY with occasional partings of light brown silty fine sand and scattered small gypsum crystals			
9.00-9.10	D15					(1.50)				
9.50-9.95	U4	3.00	DRY	35 blows						
						10.00				
Remarks U = Undisturbed 100mm Diameter Sample C = Dynamic Cone Penetration Test, S = Standard Penetration Test D = Disturbed Sample Groundwater was not encountered during boring Excavating from 0.00m to 1.00m for 1.0 hour.							Scale (approx) 1:50		Logged By JIP	
							Figure No. 1118172.BH1			

Site Analytical Services Ltd.						Site	Borehole Number					
						16 DALEHAM GARDENS, LONDON, NW3 5DA	BH1					
Boring Method		Casing Diameter		Ground Level (mOD)		Client		Job Number				
DEMOUNTABLE SHELL AND AUGER		150mm cased to 3.00m				MR CHRIS HOLM		1118172				
		Location		Dates		Engineer		Sheet				
		TQ 267 848		11/07/2011		ELLIOTT WOOD PARTNERSHIP		2/2				
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water			
10.50-10.60	D16						Very stiff dark grey brown fissured silty CLAY with occasional partings of light brown silty fine sand and scattered small gypsum crystals					
11.00-11.45 11.00-11.45	SPT N=24 D17	3.00	DRY	4,5/5,6,6,7								
12.00-12.10	D18											
12.50-12.95	U5	3.00	DRY	34 blows								
13.50-13.60	D19											
14.00-14.45 14.00-14.45	SPT N=25 D20	3.00	DRY	3,4/5,6,7,7								
15.00-15.10	D21					(10.00)						
15.50-15.95	U6	3.00	DRY	40 blows								
16.50-16.60	D22											
17.00-17.45 17.00-17.45	SPT N=33 D23	3.00	DRY	5,6/7,7,9,10								
18.00-18.10	D24											
18.50-18.95	U7	3.00	DRY	60 blows								
19.25-19.35	D25											
19.55-20.00 19.55-20.00	SPT N=40 D26	3.00	DRY	6,7/8,9,9,14								
				11/07/2011.DRY								
						20.00						
Remarks										Scale (approx)	Logged By	
										1:50	JIP	
										Figure No. 1118172.BH1		

Site Analytical Services Ltd.

Site
16 DALEHAM GARDENS, LONDON, NW3 5DA

Borehole
Number
BH1

Installation Type
MONITORING STANDPIPE

Dimensions
Internal Diameter of Tube (A) = 50 mm
Diameter of Filter Zone = 150 mm

Client
MR CHRIS HOLM

Job
Number
1118172

Location
TQ 267 848

Ground Level (mOD)

Engineer
ELLIOTT WOOD PARTNERSHIP

Sheet
1/1

Legend	Water	Inst. (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling										
				1.00	Bentonite Seal	Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)	
					Slotted Standpipe						5 min	10 min	15 min	20 min		
				5.00	Bentonite Seal	Groundwater Observations During Drilling										
				6.00		Date	Start of Shift					End of Shift				
						Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	
						11/07/11				DRY		20.00		DRY		
						Instrument Groundwater Observations										
						Inst. (A) Type : SINGLE STANDPIPE										
						Date	Instrument (A)			Remarks						
						Time	Depth (m)	Level (mOD)								
				20.00	General Backfill											

Remarks
Lockable cover set in concrete
Gas valve fitted

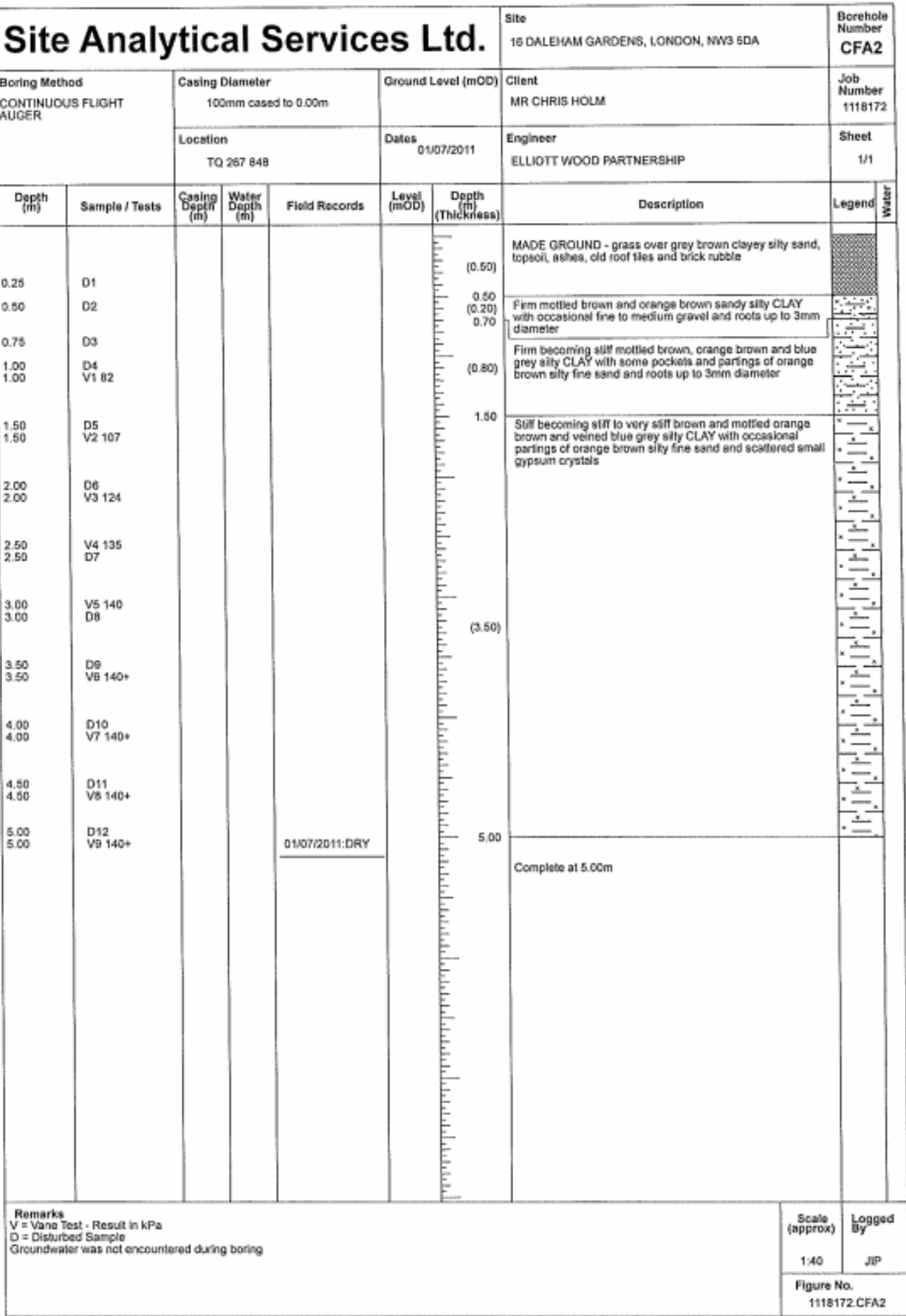
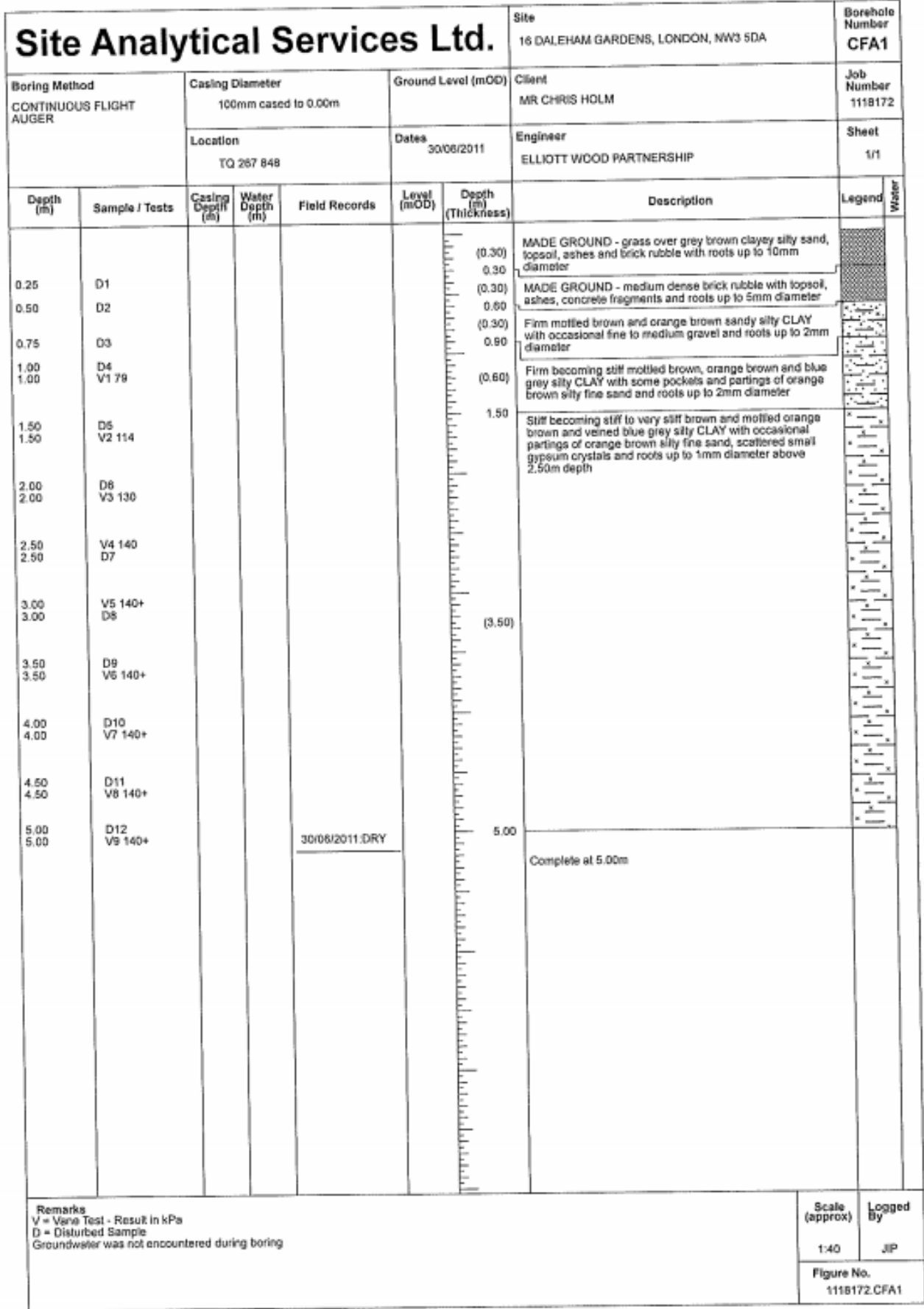
Site Analytical Services Ltd.							Site	Borehole Number	
							16 DALEHAM GARDENS, LONDON, NW3 5DA	BH2	
Boring Method DEMOUNTABLE SHELL AND AUGER		Casing Diameter		Ground Level (mOD)		Client		Job Number	
		150mm cased to 3.00m				MR CHRIS HOLM		1118172	
		Location		Dates		Engineer		Sheet	
		TQ 267 848		07/07/2011- 08/07/2011		ELLIOTT WOOD PARTNERSHIP		1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.25-0.35	D1					(0.45)	MADE GROUND - grass over grey brown clayey silty sand, topsoil, ashes and brick rubble		
0.50-0.60	D2					0.45	Soft becoming firm mottled brown, orange brown and blue grey silty CLAY with some pockets and partings of orange brown silty fine sand and occasional small segregations of gypsum and calcite		
0.75-0.85	D3								
1.00-1.10	D4								
1.20-1.65	CPT N=8 D5		DRY	1,0/1,2,2,3		(2.55)			
1.85-1.95	D6								
2.00-2.45	CPT N=12 D7	2.00	DRY	1,2/3,3,3,3			Stiff brown and mottled orange brown and veined blue grey silty CLAY with occasional partings of orange brown silty fine sand and scattered small gypsum crystals		
2.75-2.85	D8					3.00			
3.00-3.45	U1	3.00	DRY	07/07/2011:DRY 08/07/2011:DRY 24 blows					
3.75-3.85	D9								
4.00-4.45	SPT N=15 D10	3.00	DRY	2,3/3,4,4,5					
4.75-4.85	D11						Very stiff dark grey brown fissured silty CLAY with occasional partings of light brown silty fine sand and scattered small gypsum crystals		
5.00-5.45	U2	3.00	DRY	30 blows		(4.70)			
6.00-6.10	D12								
6.50-6.95	SPT N=20 D13	3.00	DRY	3,5/4,4,5,7					
7.50-7.60	D14					7.70			
8.00-8.45	U3	3.00	DRY	30 blows		(2.30)			
9.00-9.10	D15								
9.50-9.95	SPT N=24 D16	3.00	DRY	3,5/5,6,6,7		10.00			
Remarks Groundwater was not encountered during boring D = Disturbed Sample C = Dynamic Cone Penetration Test, S = Standard Penetration Test U = Undisturbed 100mm Diameter Sample Excavating from 0.00m to 1.00m for 1.0 hour.								Scale (approx)	Logged By
								1:50	JIP
								Figure No. 1118172.BH2	

Site Analytical Services Ltd.						Site 16 DALEHAM GARDENS, LONDON, NW3 5DA		Borehole Number BH2		
Boring Method DEMOUNTABLE SHELL AND AUGER		Casing Diameter 150mm cased to 3.00m			Ground Level (mOD)		Client MR CHRIS HOLM		Job Number 1118172	
		Location TQ 267 848					Dates 07/07/2011- 08/07/2011		Engineer ELLIOTT WOOD PARTNERSHIP	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
10.50-10.60	D17	3.00	DRY	30,50			Very stiff dark grey brown fissured silty CLAY with occasional partings of light brown silty fine sand and scattered small gypsum crystals			
11.00-11.15 11.00-11.15	CPT D18									
12.00-12.10	D19	3.00	DRY	40 blows			Weak grey claystone nodule encountered fro 11.10m to 11.30m depth			
12.50-12.65	U4									
13.50-13.60	D20	3.00	DRY	4,6/6,5,7,8						
14.00-14.45 14.00-14.45	SPT N=27 D21									
15.00-15.10	D22	3.00	DRY	40 blows		(10.00)				
15.50-15.95	U5									
16.50-16.60	D23	3.00	DRY	5,6/7,7,9,9						
17.00-17.45 17.00-17.45	SPT N=32 D24									
18.00-18.10	D25	3.00	DRY	40 blows						
18.50-18.95	U6									
19.25-19.35 19.55-20.00 19.55-20.00	D26 SPT N=38 D27	3.00	DRY	5,7/9,8,9,12 08/07/2011.DRY		20.00				
Remarks								Scale (approx) 1:50	Logged By JIP	
								Figure No. 1118172.BH2		

Site Analytical Services Ltd.						Site 16 DALEHAM GARDENS, LONDON, NW3 5DA				Borehole Number BH2						
Installation Type MONITORING STANDPIPE		Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 150 mm				Client MR CHRIS HOLM				Job Number 1118172						
		Location TQ 267 848		Ground Level (mOD)		Engineer ELLIOTT WOOD PARTNERSHIP				Sheet 1/1						
Legend	Value	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling										
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)	
											5 min	10 min	15 min	20 min		
						Groundwater Observations During Drilling										
						Date	Start of Shift					End of Shift				
							Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						07/07/11		3.00	3.00	DRY			3.00	3.00	DRY	
						08/07/11							20.00	3.00		
						Instrument Groundwater Observations										
						Inst. [A] Type : SINGLE STANDPIPE										
Date	Instrument [A]			Remarks												
	Time	Depth (m)	Level (mOD)													
				20.00	General Backfill											
Remarks Lockable cover set in concrete Gas valve fitted																

Site Analytical Services Ltd.							Site	Borehole Number
DEMOUNTABLE SHELL AND AUGER							16 DALEHAM GARDENS, LONDON, NW3 5DA	BH3
Boring Method		Casing Diameter		Ground Level (mOD)		Client		Job Number
		150mm cased to 4.00m				MR CHRIS HOLM		1118172
		Location		Dates		Engineer		Sheet
		TQ 267 848		11/07/2011-12/07/2011		ELLIOTT WOOD PARTNERSHIP		1/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
0.25-0.35	D1						MADE GROUND - grass over grey brown clayey silty sand, topsoil, ashes and brick rubble	
0.50-0.80	D2					(1.20)		
0.75-0.85	D3							
1.00-1.10	D4					1.20		
1.20-1.85	CPT N=8					(0.40)	MADE GROUND - stiff dark grey brown dry sandy silty clay with scattered brick and concrete fragments	
1.20-1.85	D5		DRY	1,1/1,3,2,2		1.80		
1.85-1.95	D6						Stiff mottled brown, orange brown and blue grey silty CLAY with some pockets and partings of orange brown silty fine sand and occasional small segregations of gypsum and calcite	
2.00-2.45	U1	2.00	DRY	24 blows				
2.75-2.85	D7					(2.40)		
3.00-3.45	SPT N=13							
3.00-3.45	D8	3.00	DRY	1,1/2,3,3,5				
3.75-3.85	D9							
4.00-4.45	U2	4.00	DRY	25 blows		4.00	Stiff becoming very stiff brown and mottled orange brown and veined blue grey silty CLAY with occasional partings of orange brown silty fine sand and scattered small gypsum crystals	
4.75-4.85	D10							
5.00-5.45	SPT N=20							
5.00-5.45	D11	4.00	DRY	2,3/3,4,5,7				
6.00-6.10	D12							
6.50-6.95	U3	4.00	DRY	30 blows		(5.50)		
7.50-7.60	D13			12/07/2011:DRY				
				13/07/2011:DRY				
8.00-8.45	SPT N=23							
8.00-8.45	D14	4.00	DRY	2,3/4,6,6,7				
9.00-9.10	D15							
9.50-9.85	U4	4.00	DRY	30 blows		9.50		
						(0.50)	Very stiff dark grey brown fissured silty CLAY with occasional partings of light brown silty fine sand and scattered small gypsum crystals	
						10.00		
Remarks Groundwater was not encountered during boring D = Disturbed Sample C = Dynamic Cone Penetration Test, S = Standard Penetration Test U = Undisturbed 100mm Diameter Sample Excavating from 0.00m to 1.00m for 1.0 hour.							Scale (approx) 1:50	Logged By JIP
							Figure No. 1118172.BH3	

Site Analytical Services Ltd.							Site	Borehole Number
DEMOUNTABLE SHELL AND AUGER							16 DALEHAM GARDENS, LONDON, NW3 5DA	BH3
Boring Method		Casing Diameter		Ground Level (mOD)		Client		Job Number
		150mm cased to 4.00m				MR CHRIS HOLM		1118172
		Location		Dates		Engineer		Sheet
		TQ 267 848		11/07/2011-12/07/2011		ELLIOTT WOOD PARTNERSHIP		2/2
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
10.50-10.60	D16						Very stiff dark grey brown fissured silty CLAY with occasional partings of light brown silty fine sand and scattered small gypsum crystals	
11.00-11.45	SPT N=24							
11.00-11.45	D17	4.00	DRY	4,5/5,5,6,7				
12.00-12.10	D18							
12.50-12.95	U5	4.00	DRY	35 blows				
13.50-13.80	D19							
14.00-14.45	SPT N=27							
14.00-14.45	D20	4.00	DRY	4,5/5,5,7,8				
15.00-15.10	D21					(10.00)		
15.50-15.95	U6	4.00	DRY	35 blows				
16.50-16.60	D22							
17.00-17.45	SPT N=33							
17.00-17.45	D23	4.00	DRY	5,6/7,6,9,9				
18.00-18.10	D24							
18.50-18.95	U7	4.00	DRY	37 blows				
19.25-19.35	D25							
19.55-20.00	SPT N=38							
19.55-20.00	D26	4.00	DRY	5,7/8,9,9,12				
				13/07/2011:DRY				
Remarks							Scale (approx) 1:50	Logged By JIP
							Figure No. 1118172.BH3	



Site Analytical Services Ltd.							Site 16 DALEHAM GARDENS, LONDON, NW3 5DA	Borehole Number CFA3
Boring Method CONTINUOUS FLIGHT AUGER		Casing Diameter 100mm cased to 0.00m		Ground Level (mOD)		Client MR CHRIS HOLM		Job Number 1118172
		Location TQ 287 848		Dates 30/06/2011		Engineer ELLIOTT WOOD PARTNERSHIP		Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
0.25	D1					(0.50)	MADE GROUND - grass over grey brown clayey silty sand, topsoil, ashes, clinker and brick rubble	
0.50	D2					0.50 (0.20) 0.70	Firm mottled brown and orange brown sandy silty CLAY with occasional fine to medium gravel and roots up to 2mm diameter	
0.75	D3					(0.80)	Firm becoming stiff mottled brown, orange brown and blue grey silty CLAY with some pockets and partings of orange brown silty fine sand and roots up to 2mm diameter	
1.00	D4					1.50	Stiff becoming stiff to very stiff brown and mottled orange brown and veined blue grey silty CLAY with occasional partings of orange brown silty fine sand, scattered small gypsum crystals and roots up to 1mm diameter above 2.00m depth	
1.00	V1 63							
1.50	D5							
1.50	V2 112							
2.00	D6							
2.00	V3 108							
2.50	V4 131							
2.50	D7							
3.00	V5 140+					(3.60)		
3.00	D8							
3.50	D9							
3.50	V6 140+							
4.00	D10							
4.00	V7 140+							
4.50	D11							
4.50	V8 140+							
5.00	D12					5.00		
5.00	V9 140+			30/06/2011: DRY			Complete at 5.00m	
Remarks V = Vane Test - Result in kPa D = Disturbed Sample Groundwater was not encountered during boring							Scale (approx) 1:40	Logged By JIP
							Figure No. 1118172.CFA3	

Site Analytical Services Ltd.							Site 16 DALEHAM GARDENS, LONDON, NW3 5DA	Borehole Number CFA4
Boring Method CONTINUOUS FLIGHT AUGER		Casing Diameter 100mm cased to 0.00m		Ground Level (mOD)		Client MR CHRIS HOLM		Job Number 1118172
		Location TQ 287 848		Dates 01/07/2011		Engineer ELLIOTT WOOD PARTNERSHIP		Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
0.25	D1					(0.50)	MADE GROUND - grass over dark grey brown clayey silty sand, topsoil, ashes and brick rubble with roots up to 2mm diameter	
0.50	D2					0.50 (0.30) 0.80	Firm mottled brown and orange brown sandy silty CLAY with occasional fine to medium gravel and roots up to 2mm diameter	
0.75	D3					(0.50)	Firm becoming stiff mottled brown, orange brown and blue grey silty CLAY with some pockets and partings of orange brown silty fine sand and roots up to 2mm diameter	
1.00	D4					1.30	Stiff becoming stiff to very stiff brown and mottled orange brown and veined blue grey silty CLAY with occasional partings of orange brown silty fine sand, scattered small gypsum crystals and roots up to 1mm diameter above 2.00m depth	
1.00	V1 78							
1.50	D5							
1.50	V2 110							
2.00	D6							
2.00	V3 128							
2.50	V4 138							
2.50	D7							
3.00	V5 140+					(3.70)		
3.00	D8							
3.50	D9							
3.50	V6 140+							
4.00	D10							
4.00	V7 140+							
4.50	D11							
4.50	V8 140+							
5.00	D12					5.00		
5.00	V9 140+			01/07/2011: DRY			Complete at 5.00m	
Remarks Groundwater was not encountered during boring D = Disturbed Sample V = Vane Test - Result in kPa							Scale (approx) 1:40	Logged By JIP
							Figure No. 1118172.CFA4	

Site Analytical Services Ltd.							Site	Borehole Number
Boring Method CONTINUOUS FLIGHT AUGER							16 DALEHAM GARDENS, LONDON, NW3 5DA	CFA5
							Client MR CHRIS HOLM	Job Number 1118172
							Location TQ 267 848	Engineer ELLIOTT WOOD PARTNERSHIP
							Dates 30/06/2011	Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
0.25	D1					(0.50)	MADE GROUND - grass over grey brown clayey silty sand, topsoil, ashes and brick rubble with roots up to 10mm diameter	
0.50	D2					0.50 (0.30)	Firm mottled brown and orange brown sandy silty CLAY with occasional fine to medium gravel and roots up to 2mm diameter	
0.75	D3					0.80	Firm becoming stiff mottled brown, orange brown and blue grey silty CLAY with some pockets and partings of orange brown silty fine sand and roots up to 2mm diameter	
1.00	D4 V1 78					(0.70)		
1.50	D5 V2 115					1.50	Stiff becoming stiff to very stiff brown and mottled orange brown and veined blue grey silty CLAY with occasional partings of orange brown silty fine sand and scattered small gypsum crystals	
2.00	D6 V3 132							
2.50	V4 140 D7							
3.00	V5 140+ D8					(3.50)		
3.50	D9 V6 140+							
4.00	D10 V7 140+							
4.50	D11 V8 140+							
5.00	D12 V9 140+			30/06/2011: DRY		5.00	Complete at 5.00m	
Remarks V = Vane Test - Result in kPa D = Disturbed Sample Groundwater was not encountered during boring							Scale (approx) 1:40	Logged By JIP
							Figure No. 1118172.CFA5	

Site Analytical Services Ltd.							Site	Borehole Number
Boring Method CONTINUOUS FLIGHT AUGER							16 DALEHAM GARDENS, LONDON, NW3 5DA	CFA6
							Client MR CHRIS HOLM	Job Number 1118172
							Location TQ 267 848	Engineer ELLIOTT WOOD PARTNERSHIP
							Dates 01/07/2011	Sheet 1/1
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
0.25	D1					(0.40)	MADE GROUND - grass over grey brown clayey silty sand, topsoil, ashes and brick rubble	
0.50	D2					0.40	MADE GROUND - stiff dark grey brown sandy silty clay, brick rubble and ashes with roots up to 10mm diameter	
0.75	D3					(1.10)		
1.00	D4 M1 114/300					1.50	Stiff becoming stiff to very stiff brown and mottled orange brown and veined blue grey silty CLAY with occasional partings of orange brown silty fine sand, scattered small gypsum crystals and roots up to 1mm diameter above 2.10m depth	
1.50	D5 V1 60							
2.00	D6 V2 108							
2.50	V3 123 D7							
3.00	V4 136 D8					(3.50)		
3.50	D9 V5 140+							
4.00	D10 V6 140+							
4.50	D11 V7 140+							
5.00	D12 V8 140+			01/07/2011: DRY		5.00	Complete at 5.00m	
Remarks Groundwater was not encountered during boring D = Disturbed Sample M = Mackintosh Probe - Blows/Penetration (mm) V = Vane Test - Result in kPa							Scale (approx) 1:40	Logged By JIP
							Figure No. 1118172.CFA6	

Site Analytical Services Ltd.						Site 16 DALEHAM GARDENS, LONDON, NW3 5DA		Trial Pit Number TP1	
Excavation Method HAND EXCAVATION		Dimensions 800 X 800		Ground Level (mOD)		Client MR CHRIS HOLM		Job Number 1118172	
		Location TQ 267 848		Dates 29/08/2011		Engineer ELLIOTT WOOD PARTNERSHIP		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.25	D1				(0.10) 0.10 (0.18) 0.28	MADE GROUND - quarry tiles set on concrete			
0.50	D2					MADE GROUND - compacted brick rubble			
0.75	D3				(0.92)	Firm mottled brown, orange brown and blue grey silty CLAY with some pockets and partings of orange brown silty fine sand			
0.95 0.95	V1 49 D4								
			29/08/2011: DRY		1.20	Complete at 1.20m			
Plan						Remarks			
						V = Vane Test - Result in kPa D = Disturbed Sample For details of foundations exposed see sketch Groundwater was not encountered during excavation			
						Scale (approx)		Logged By	
						1:25		JIP	
								Figure No.	
								1118172.TP1	

Site Analytical Services Ltd.						Site 16 DALEHAM GARDENS, LONDON, NW3 5DA		Trial Pit Number TP2	
Excavation Method HAND EXCAVATION		Dimensions 800 X 800		Ground Level (mOD)		Client MR CHRIS HOLM		Job Number 1118172	
		Location TQ 267 848		Dates 29/08/2011		Engineer ELLIOTT WOOD PARTNERSHIP		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.25	D1				(0.25)	MADE GROUND - thin concrete surface (30mm) set on compacted brick rubble			
0.50 0.55	D2 V1 58				(0.75)	Firm mottled brown, orange brown and blue gray silty CLAY with some pockets and partings of orange brown silty fine sand	 		
0.75 0.75	V2 56 D3		29/08/2011: DRY		1.00	Complete at 1.00m			
Plan						Remarks			
						Groundwater was not encountered during excavation For details of foundations exposed see sketches D = Disturbed Sample V = Vane Test - Result in kPa			
Scale (approx)						Logged By		Figure No.	
1:25						JIP		1118172.TP2	

APPENDIX 'B'

In-situ & Laboratory Test and Gas Monitoring Data



Ref: 11/18172

UNDRAINED TRIAXIAL
COMPRESSION TEST

LOCATION 16 Daleham Gardens, London, NW3 5DA

BH/TP No.	MOISTURE CONTENT	BULK DENSITY	LATERAL PRESSURE	COMPRESSIVE STRENGTH	COHESION	ANGLE OF SHEARING RESISTANCE	DEPTH
	%	Mg/m ³	kN/m ²	kN/m ²	kN/m ²	degrees	m
BH1	31	1.84	50	196	98		2.25
	30	1.88	80	334	167		4.25
	31	1.88	130	451	226		6.75
	30	1.91	190	407	204		9.75
	30	1.91	250	487	244		12.75
	29	1.96	310	567	284		15.75
	27	1.96	370	524	262		18.75
BH2	32	1.89	60	273	137		3.25
	30	1.81	100	313	157		5.25
	29	1.93	160	436	218		8.25
	30	1.96	250	502	251		12.75
	27	1.96	310	494	247		15.75
	31	1.96	370	520	260		18.75

Table 1



Ref: 11/18172

UNDRAINED TRIAXIAL
COMPRESSION TEST

LOCATION 16 Daleham Gardens, London, NW3 5DA

BH/TP No.	MOISTURE CONTENT	BULK DENSITY	LATERAL PRESSURE	COMPRESSIVE STRENGTH	COHESION	ANGLE OF SHEARING RESISTANCE	DEPTH
	%	Mg/m ³	kN/m ²	kN/m ²	kN/m ²	degrees	m
BH3	29	1.90	50	302	151		2.25
	32	1.90	80	284	142		4.25
	33	1.90	130	356	178		6.75
	31	1.91	190	422	211		9.75
	31	1.93	250	465	233		12.75
	30	1.91	310	451	226		15.75
	25	1.94	370	589	295		18.75

Table 1a



Ref: 11/18172

PLASTICITY INDEX &
MOISTURE CONTENT
DETERMINATIONS

LOCATION 16 Daleham Gardens, London, NW3 5DA

BH/TP No.	Depth m	Natural Moisture %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Passing 425 µm %	Class
BH1	1.20	33	67	25	42	99	CH
	1.85	30	68	23	45	100	CH
	2.75	32	70	27	43	100	CH/CV
BH2	1.00	29	62	21	41	98	CH
	2.00	32	76	25	51	100	CV
	2.75	33	72	26	46	100	CV
BH3	2.75	32	80	25	55	99	CV
CFA1	2.00	30	66	25	41	100	CH
CFA2	1.00	31	64	24	40	100	CH
CFA3	1.00	28	63	21	42	100	CH
CFA5	1.50	28	59	24	35	100	CH
CFA6	2.00	28	65	27	38	100	CH

Table 2



Ref: 11/18172

SULPHATE & pH
DETERMINATIONS

LOCATION 16 Daleham Gardens, London, NW3 5DA

BH/TP No.	DEPTH BELOW GL m	SOIL SULPHATES AS SO ₄		WATER SULPHATES AS SO ₄		pH	CLASS	SOIL - 2mm %
		TOTAL %	WATER SOL g/l		g/l			
BH1	5.00		2.28			7.0	DS-3	100
BH2	1.20		0.12			7.9	DS-1	100
BH3	15.00		0.50			7.8	DS-2	100
CFA5	1.00		0.08			7.7	DS-1	100
CFA6	1.50		0.06			7.6	DS-1	100

Classification – Tables C1 and C2 : BRE Special Digest 1 : 2005

Table 3

SAS

Site Analytical Services Ltd.

Ref: 11/18172

GAS MONITORING

LOCATION

16 Daleham Gardens, London, NW3 5DA

MONITORING DATE

28th July 2011

BOREHOLE REF:		BH1	BH2	BH3
Methane	(%)	0.0	0.0	0.0
Carbon Dioxide	(%)	0.9	1.0	1.2
Oxygen	(%)	20.8	20.8	20.6
Hydrogen Sulphide	(p.p.m.)	0.0	0.0	0.0
Carbon Monoxide	(p.p.m.)	0	0	0
Atmospheric Pressure	(mb)	1008	1008	1008
Water Level	(m.bgl)	4.96	4.92	4.95
Oxygen in Air	(%)	21.5	21.5	21.5
Flow	(l/hour)	0.0	0.0	0.0

N.B. Methane Lower Explosive Limit - 5% Gas in Air

Table 4

SAS

Site Analytical Services Ltd.

Ref: 11/18172

GAS MONITORING

LOCATION

16 Daleham Gardens, London, NW3 5DA

MONITORING DATE

2nd August 2011

BOREHOLE REF:		BH1	BH2	BH3
Methane	(%)	0.0	0.0	0.0
Carbon Dioxide	(%)	6.7	0.2	1.3
Oxygen	(%)	12.5	20.5	19.8
Hydrogen Sulphide	(p.p.m.)	0.0	0.0	0.0
Carbon Monoxide	(p.p.m.)	0	0	0
Atmospheric Pressure	(mb)	1006	1006	1006
Water Level	(m.bgl)	DRY	DRY	DRY
Oxygen in Air	(%)	21.4	21.4	21.4
Flow	(l/hour)	0.0	0.0	0.0

N.B. Methane Lower Explosive Limit - 5% Gas in Air

Table 4a

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75 of 109

elliott wood partnership llp
September 2011



Site Analytical Services Ltd.

Ref: 11/18172

LOCATION 16 Daleham Gardens, London, NW3 5DA

FALLING HEAD PERMEABILITY TEST – BOREHOLES

Borehole Number		CFA3	
Initial Groundwater Depth (assumed)		5.00	m
Borehole Depth		5.00	m
Depth to Bottom of Casing		0.00	m
Height of Casing above Ground		0.00	m
Diameter of Borehole		0.10	m
Test Duration		960	mins
Depth of Water at Commencement of Test		0.06	m
Permeability		3.2×10^{-5}	m/sec

Time Elapsed (mins)	Depth of Water Below top of Casing (m)	Time Elapsed (mins)	Depth of Water Below top of Casing (m)
0.00	0.06	30.00	0.31
1.00	0.10	40.00	0.32
2.00	0.12	50.00	0.33
3.00	0.15	60.00	0.34
5.00	0.21	120.00	0.41
10.00	0.22	960.00	0.63 (overnight)
20.00	0.26		

Remarks

Intake Factor (F) = 0.58

$$\text{Permeability (k)} = \frac{A}{F(t_2 - t_1)} \times \log_e \frac{H_1}{H_2}$$

A = Cross Sectional Area of Borehole
H₁ = Head of Water at Time t₁
H₂ = Head of Water at Time t₂

Table 5



Site Analytical Services Ltd.

Table 5
Ref: 11/18172

LOCATION 16 Daleham Gardens, London, NW3 5DA

FALLING HEAD PERMEABILITY TEST – BOREHOLES

Borehole Number		CFA4	
Initial Groundwater Depth (assumed)		5.00	m
Borehole Depth		5.00	m
Depth to Bottom of Casing		0.00	m
Height of Casing above Ground		0.00	m
Diameter of Borehole		0.10	m
Test Duration		900	mins
Depth of Water at Commencement of Test		0.00	m
Permeability		3.5×10^{-8}	m/sec

Time Elapsed (mins)	Depth of Water Below top of Casing (m)	Time Elapsed (mins)	Depth of Water Below top of Casing (m)
0.00	0.00	30.00	0.28
1.00	0.07	40.00	0.30
2.00	0.10	50.00	0.32
3.00	0.11	60.00	0.33
5.00	0.14	120.00	0.40
10.00	0.17	960.00	0.61 (overnight)
20.00	0.22		

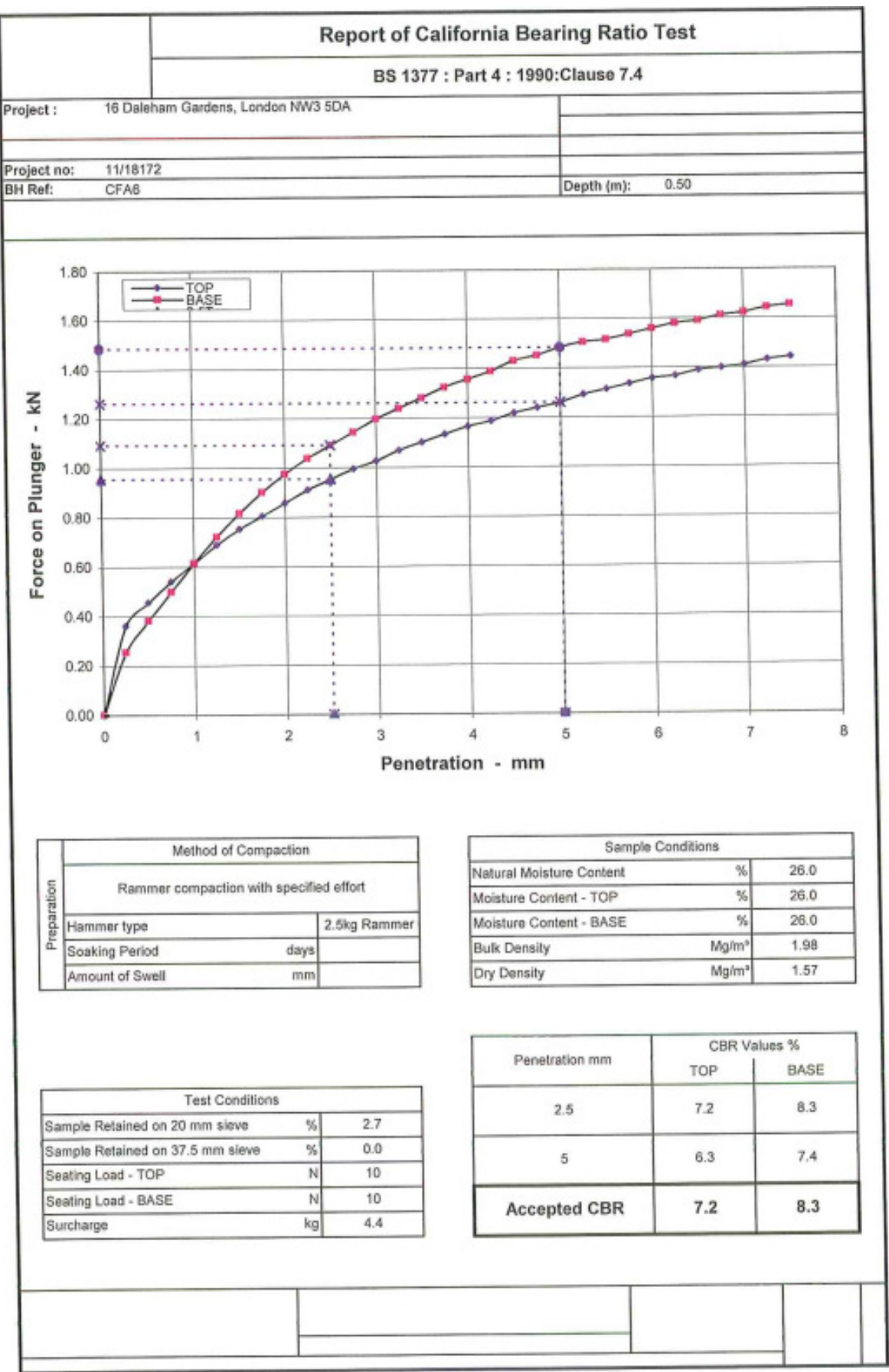
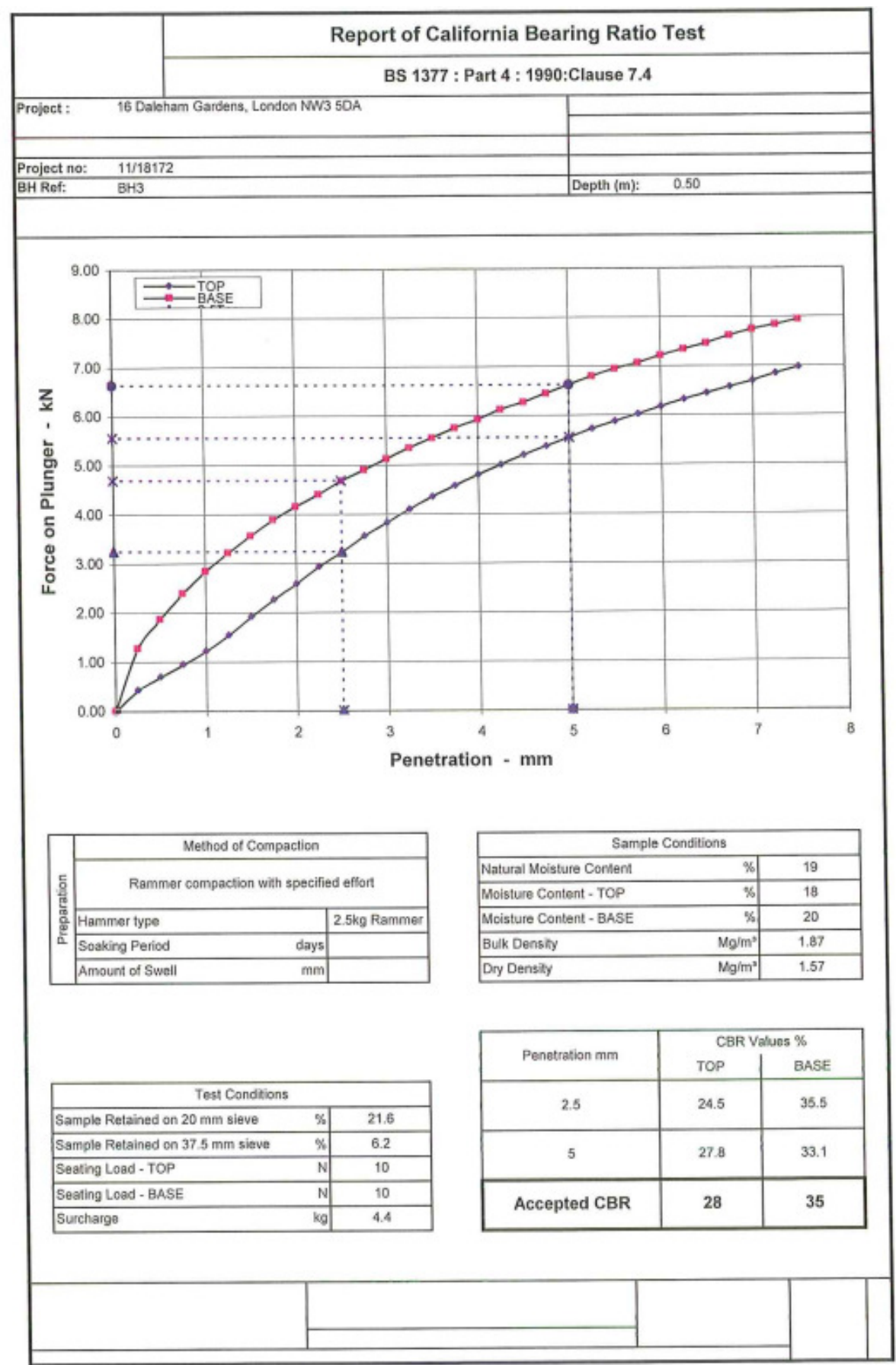
Remarks

Intake Factor (F) = 0.58

$$\text{Permeability (k)} = \frac{A}{F(t_2 - t_1)} \times \log_e \frac{H_1}{H_2}$$

A = Cross Sectional Area of Borehole
H₁ = Head of Water at Time t₁
H₂ = Head of Water at Time t₂

Table 5a





Aubrey Davidson
Site Analytical Services Ltd
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e: reception@i2analytical.com

Analytical Report Number : 11-28844

Project / Site name: 16 Daleham Gardens

Samples received on: 18/07/2011

Your job number: 11/18172

Samples instructed on: 18/07/2011

Your order number: 9377

Analysis completed by: 25/07/2011

Report Issue Number: 1

Report issued on: 25/07/2011

Samples Analysed: 8 soil samples

Signed:

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

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

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

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

Signed:

Thurstan Plummer
Organics Technical Manager
For & on behalf of i2 Analytical Ltd.

Analytical Report Number: 11-28844

Project / Site name: 16 Daleham Gardens

Lab Sample Number	184130	184131	184132	184133	184134
Sample Reference	BH1	BH3	CFA1	CFA2	CFA3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	1.20	0.50	0.25	0.25
Date Sampled	15/07/2011	15/07/2011	15/07/2011	15/07/2011	15/07/2011
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Unit of Detection	Acceptation Status		
Stone Content	%	0.1	MCERTS	22	< 0.1
Moisture Content	%	N/A	MCERTS	13	< 0.1
Total mass of sample received	kg	0.001	MCERTS	0.95	< 0.1
Fibrous Material	PIA	N/A	ISO 17025	Absent	< 0.1

General Inorganics	pH Units	N/A	MCERTS	7.9	7.7	8.0	8.1	7.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	550	690	1900	1100	1600
Water Soluble Sulphate as SO ₄ (2:1)	g/t	0.0025	MCERTS	0.099	0.10	0.15	0.061	0.18
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.3
Total Organic Carbon (TOC)	%	0.1	MCERTS	1.4	1.7	1.5	1.4	1.6

Total Phenols	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Speciated PAHs	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.14	0.05	0.05
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	0.51	< 0.20	1.7	0.31	0.71
Anthracene	mg/kg	0.1	MCERTS	0.11	< 0.10	0.32	< 0.10	0.14
Fluoranthene	mg/kg	0.2	MCERTS	0.90	0.31	3.2	0.76	2.0
Pyrene	mg/kg	0.2	MCERTS	0.84	0.30	2.8	0.65	1.8
Benzo(a)pyrene	mg/kg	0.2	MCERTS	0.45	0.22	1.4	0.37	0.99
Chrysene	mg/kg	0.05	MCERTS	0.44	0.24	1.4	0.37	0.94
Benzo(k)fluoranthene	mg/kg	0.1	MCERTS	0.42	0.21	1.4	0.40	1.1
Benzo(a)fluoranthene	mg/kg	0.2	MCERTS	0.24	< 0.20	0.88	0.25	0.54
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.36	0.24	1.2	0.34	0.90
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	0.70	0.21	0.50
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.74	0.23	0.47

Total PAH	mg/kg	1.6	MCERTS	4.4	< 1.6	16	4.0	10
Speciated Total SPA-16 PAHs	mg/kg	1.6	MCERTS	4.4	< 1.6	16	4.0	10

Heavy Metals / Metalloids	mg/kg	1	MCERTS	16	13	14	16	15
Arsenic (aqueous extractable)	mg/kg	1	MCERTS	11	15	9.7	8.6	8.6
Boron (total)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium (aqueous extractable)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (hexavalent)	mg/kg	1	MCERTS	31	35	15	23	23
Copper (aqueous extractable)	mg/kg	1	MCERTS	51	43	34	55	43
Lead (aqueous extractable)	mg/kg	2	MCERTS	310	230	270	840	400
Mercury (aqueous extractable)	mg/kg	0.3	MCERTS	0.6	0.7	0.5	0.7	0.6
Nickel (aqueous extractable)	mg/kg	2	MCERTS	18	18	10	16	13
Selenium (aqueous extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqueous extractable)	mg/kg	2	MCERTS	89	76	76	120	93



Analytical Report Number: 11-28844
Project / Site name: 16 Daleham Gardens

Lab Sample Number	184130	184131	184132	184133	184134
Sample Reference	BH1	BH3	CFA1	CFA2	CFA3
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	1.20	0.50	0.25	0.25
Date Sampled	15/07/2011	15/07/2011	15/07/2011	15/07/2011	15/07/2011
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Monoaromatics					
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0
HTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

Analytical Report Number: 11-28844
Project / Site name: 16 Daleham Gardens

Lab Sample Number	184135	184136	184137		
Sample Reference	CFA4	CFA5	CFA6		
Sample Number	None Supplied	None Supplied	None Supplied		
Depth (m)	0.50	0.25	0.50		
Date Sampled	15/07/2011	15/07/2011	15/07/2011		
Time Taken	None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	MCERTS	< 0.1	< 0.1
Moisture Content	%	N/A	MCERTS	15	17
Total mass of sample received	kg	0.001	MCERTS	0.77	0.76
Fibrous Material	µm	N/A	ISO 17025	Absent	Absent

General Inorganics

pH	pH Units	N/A	MCERTS	8.0	7.1	8.4		
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	360	810	620		
Water Soluble Sulphate as SO ₄ (2:1)	g/l	0.0025	MCERTS	0.054	0.040	0.52		
Sulphide	mg/kg	1	MCERTS	< 1.0	3.3	< 1.0		
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.8	2.4	0.7		

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
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Speciated PAHs

Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.09	< 0.05		
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20		
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10		
Fluorene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20		
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	0.91	< 0.20		
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.17	< 0.10		
Fluoranthene	mg/kg	0.2	MCERTS	0.33	2.7	0.41		
Pyrene	mg/kg	0.2	MCERTS	0.29	2.4	0.37		
Benzo(a)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	1.4	0.22		
Chrysene	mg/kg	0.05	MCERTS	0.13	1.3	0.19		
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.14	1.7	0.26		
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	0.83	< 0.20		
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.13	1.3	0.20		
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	0.79	< 0.20		
Dibenzo(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20		
Benzo(g,h,i)perylene	mg/kg	0.05	MCERTS	< 0.05	0.86	< 0.05		

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	1.6	MCERTS	< 1.6	14	1.8		
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Heavy Metals / Metalloids

Arsenic (aqueous extractable)	mg/kg	1	MCERTS	9.7	21	15		
Boron (total)	mg/kg	1	MCERTS	13	12	21		
Cadmium (aqueous extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqueous extractable)	mg/kg	1	MCERTS	38	32	49		
Copper (aqueous extractable)	mg/kg	1	MCERTS	15	72	36		
Lead (aqueous extractable)	mg/kg	2	MCERTS	42	460	190		
Mercury (aqueous extractable)	mg/kg	0.3	MCERTS	< 0.3	1.6	< 0.3		
Nickel (aqueous extractable)	mg/kg	2	MCERTS	12	21	35		
Selenium (aqueous extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Zinc (aqueous extractable)	mg/kg	2	MCERTS	46	170	83		



Analytical Report Number: 11-28844
Project / Site name: 16 Daleham Gardens

Lab Sample Number				184135	184136	184137		
Sample Reference				CFA4	CFA5	CFA6		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.50	0.25	0.50		
Date Sampled				15/07/2011	15/07/2011	15/07/2011		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Acceleration					
Nonaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0		
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0		
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10		
TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1		
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	2.5	< 2.0		
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	6.7	< 2.0		
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	14	< 10		
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	62	< 10		
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	85	< 10		



Analytical Report Number : 11-28844
Project / Site name: 16 Daleham Gardens

* 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 topsoil/bam soil types. Data for unaccredited types of soil should be interpreted with care.

Stone content

of a sample is calculated as the % weight of the stones not passing a 2 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
184130	BH1	None Supplied	0.50	Brown clay and sand with gravel and stones.
184131	BH3	None Supplied	1.25	Brown clay and sand.
184132	CFA1	None Supplied	0.50	Brown topsoil and sand with gravel and brick.
184133	CFA2	None Supplied	0.25	Brown topsoil and sand with brick.
184134	CFA3	None Supplied	0.25	Brown topsoil and sand with brick.
184135	CFA4	None Supplied	0.50	Light brown clay and sand.
184136	CFA5	None Supplied	0.25	Brown topsoil and sand with vegetation.
184137	CFA6	None Supplied	0.50	Brown topsoil and clay with vegetation.



Analytical Report Number : 11-28844

Project / Site name: 16 Daleham Gardens

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L0735-PL	W	MCERTS
Complex cyanide in soil	Determination of complex cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080	W	NONE
Fibrous Material in soil screening	Screening of samples for fibrous material by microscopy.	In-house method based on HSG 248	A001	W	ISO 17025
Free cyanide (Low level) in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L088-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqueous digestion followed by ICP-OES.	In-house method based on MEAWM 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 3, 1990, Chemical and Electrochemical Tests	L019-UK	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	W	MCERTS
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	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	Stones not passing through a 2 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L029-UK	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by extraction with water followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-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	W	MCERTS
Total organic carbon 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	L023-PL	D	MCERTS

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Analytical Report Number : 11-28844

Project / Site name: 16 Daleham Gardens

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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	ISO 17025
TPH/CRCG (Soil)	Determination of pentane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	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 300C.

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Iss No 18172 - 16 DALEHAM GARDENS - 12 - JUL 11



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Site Analytical Services Ltd
Units 14 & 15
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russell.jarvis@qtsenvironmental.com

QTS Environmental Report No: 6631

Site Reference: 16 Daleham Gardens

Project / Job Ref: 11/18172

Order No: 9379

Sample Receipt Date: 19/07/2011

Sample Scheduled Date: 19/07/2011

Report Issue Number: 1

Reporting Date: 25/07/2011

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd



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Soil Analysis Certificate					
QTS Environmental Report No: 6631	Date Sampled	None Supplied	None Supplied		
Site Analytical Services Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: 16 Daleham Gardens	TP / BH No	BH1	BH2		
Project / Job Ref: 11/18172	Additional Refs	None Supplied	None Supplied		
Order No: 9379	Depth (m)	1.00	0.50		
Reporting Date: 25/07/2011	QTS Sample No	28395	28396		

Determinand	Unit	MDL	Accreditation				
Stone Content	%	<0.1	NONE	<0.1	<0.1		
Asbestos Screen	Positive / Negative	N/A	NONE	Negative	Negative		

General Inorganics	Unit	MDL	Accreditation				
Total Cyanide	mg/kg	<2	NONE	<2	<2		
Complex Cyanide	mg/kg	<2	NONE	<2	<2		
Free Cyanide	mg/kg	<2	NONE	<2	<2		
Total Sulphate as SO ₄	mg/kg	<200	NONE	637	402		
W/S Sulphate as SO ₄ (2:1)	g/l	<0.01	NONE	0.14	0.05		
Sulphide	mg/kg	<5	NONE	<5	<5		
Organic Matter	%	<0.1	NONE	3.1	2.5		
Total Phenols (monohydric)	mg/kg	<2	NONE	<2	<2		

Metals	Unit	MDL	Accreditation				
Arsenic (As)	mg/kg	<2	MCERTS	7	7		
W/S Boron	mg/kg	<1	NONE	1.2	1.2		
Cadmium (Cd)	mg/kg	<0.5	MCERTS	<0.5	<0.5		
Chromium (hexavalent)	mg/kg	<2	NONE	<2	<2		
Chromium (Cr)	mg/kg	<2	MCERTS	50	41		
Copper (Cu)	mg/kg	<4	MCERTS	17	19		
Lead (Pb)	mg/kg	<3	MCERTS	53	143		
Mercury (Hg)	mg/kg	<1	NONE	<1	<1		
Nickel (Ni)	mg/kg	<3	MCERTS	16	19		
Selenium (Se)	mg/kg	<3	NONE	<3	<3		
Zinc (Zn)	mg/kg	<3	MCERTS	49	62		

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C.
Analysis carried out on the dried sample is corrected for the stone content.
Screening data for asbestos provided only refers to the health & safety issues associated with the safe handling of samples & is not conclusive as to the presence or otherwise of asbestos in any test sample.



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Soil Analysis Certificate - Speciated PAHs					
QTS Environmental Report No: 6631	Date Sampled	None Supplied	None Supplied		
Site Analytical Services Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: 16 Daleham Gardens	TP / BH No	BH1	BH2		
Project / Job Ref: 11/18172	Additional Refs	None Supplied	None Supplied		
Order No: 9379	Depth (m)	1.00	0.50		
Reporting Date: 25/07/2011	QTS Sample No	28395	28396		
Determinand	Unit	MDL	Accreditation		
Naphthalene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Fluorene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Chrysene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Benzo(b)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Benzo(a)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Dibenz(a,h)anthracene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	<0.1	MCERTS	<0.1	<0.1
Coronene	mg/kg	<0.1	NONE	<0.1	<0.1
Total Oily Waste PAHs	mg/kg	<1	MCERTS	<1	<1
Total Dutch 10 PAHs	mg/kg	<1	MCERTS	<1	<1
Total EPA-16 PAHs	mg/kg	<1.6	MCERTS	<1.6	<1.6
Total WAC-17 PAHs	mg/kg	<1.7	NONE	<1.7	<1.7

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C



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Soil Analysis Certificate - TPH CWG Banded					
QTS Environmental Report No: 6631	Date Sampled	None Supplied	None Supplied		
Site Analytical Services Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: 16 Daleham Gardens	TP / BH No	BH1	BH2		
Project / Job Ref: 11/18172	Additional Refs	None Supplied	None Supplied		
Order No: 9379	Depth (m)	1.00	0.50		
Reporting Date: 25/07/2011	QTS Sample No	28395	28396		
Determinand	Unit	MDL	Accreditation		
Aliphatic >C5 - C6	mg/kg	<0.01	NONE	<0.01	<0.01
Aliphatic >C6 - C8	mg/kg	<0.05	NONE	<0.05	<0.05
Aliphatic >C8 - C10	mg/kg	<1	NONE	<1	<1
Aliphatic >C10 - C12	mg/kg	<1	NONE	<1	<1
Aliphatic >C12 - C16	mg/kg	<1	NONE	<1	<1
Aliphatic >C16 - C21	mg/kg	<1	NONE	<1	<1
Aliphatic >C21 - C34	mg/kg	<6	NONE	<6	<6
Aliphatic (C5 - C34)	mg/kg	<6	NONE	<6	<6
Aromatic >C5 - C7	mg/kg	<0.01	NONE	<0.01	<0.01
Aromatic >C7 - C8	mg/kg	<0.05	NONE	<0.05	<0.05
Aromatic >C8 - C10	mg/kg	<1	NONE	<1	<1
Aromatic >C10 - C12	mg/kg	<1	NONE	<1	<1
Aromatic >C12 - C16	mg/kg	<1	NONE	<1	<1
Aromatic >C16 - C21	mg/kg	<1	NONE	<1	<1
Aromatic >C21 - C35	mg/kg	<6	NONE	<6	<6
Aromatic (C5 - C35)	mg/kg	<6	NONE	<6	<6

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C



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Soil Analysis Certificate - BTEX

QTS Environmental Report No: 6631	Date Sampled	None Supplied	None Supplied		
Site Analytical Services Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: 16 Daleham Gardens	TP / BH No	BH1	BH2		
Project / Job Ref: 11/18172	Additional Refs	None Supplied	None Supplied		
Order No: 9379	Depth (m)	1.00	0.50		
Reporting Date: 25/07/2011	QTSE Sample No	28395	28396		

Determinand	Unit	MDL	Accreditation		
Benzene	µg/kg	<2	MCERTS	<2	<2
Toluene	µg/kg	<5	MCERTS	<5	<5
Ethylbenzene	µg/kg	<10	MCERTS	<10	<10
p & m-xylene	µg/kg	<10	MCERTS	<10	<10
o-xylene	µg/kg	<10	MCERTS	<10	<10

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C



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Waste Acceptance Criteria Analytical Certificate

QTS Environmental Report No: 6631	Date Sampled	None Supplied			
Site Analytical Services Ltd	Time Sampled	None Supplied			
Site Reference: 16 Daleham Gardens	TP / BH No	BH1			
Project / Job Ref: 11/18172	Additional Refs	None Supplied			
Order No: 9379	Depth (m)	1.00			
Reporting Date: 25/07/2011	QTSE Sample No	28395			

Determinand	Unit	MDL			
TOC	%	<0.1	1.8		
Loss on Ignition	%	<0.01	3.4		
BTEX	mg/kg	<0.05	<0.05		
Sum of PCBs	mg/kg	<0.7	<0.7		
Mineral Oil	mg/kg	<6	<6		
Total PAH	mg/kg	<1.7	<1.7		
pH	pH Units	+ / - 0.1	8.5		
Acid Neutralisation Capacity	mol/kg (+/-)	N/A	<1		

Eluate Analysis	2:1 mg/l	8:1 mg/l	Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	<0.01	<0.01	<0.2	0.5	2	25
Barium	0.14	0.02	0.2	20	100	300
Berium	<0.0005	<0.0005	<0.02	0.04	1	5
Cadmium	<0.005	<0.005	<0.2	0.5	10	70
Chromium	<0.01	<0.01	<0.5	2	50	100
Copper	<0.01	<0.01	<0.01	0.01	0.2	2
Mercury	<0.005	<0.005	<0.01	0.5	10	30
Molybdenum	0.001	<0.001	<0.1	0.4	10	40
Nickel	<0.007	<0.007	<0.2	0.5	10	50
Lead	<0.005	<0.005	<0.2	0.5	10	50
Antimony	0.009	<0.005	<0.06	0.06	0.7	5
Selenium	<0.005	<0.005	<0.1	0.1	0.5	7
Zinc	<0.005	<0.005	<0.2	4	50	200
Chloride	14	<10	<120	800	15000	25000
Fluoride	<0.03	0.05	<1	10	150	500
Sulphate	81	18	112	1000	20000	50000
TDS	221	109	555	4000	60000	100000
Phenol Index	<0.01	<0.01	<0.5	1	-	-
DOC	13.8	6.6	33.8	500	800	1000

Leach Test Information					
Sample Mass (kg)	0.223				
Dry Matter (%)	78.7				
Moisture (%)	21.3				
Stage 1					
Volume Eluate L2 (litres)	0.313				
Filtered Eluate VE1 (litres)	0.08				

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and QTS Environmental cannot be held responsible for any discrepancies with current legislation



UKAS TESTING
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mCERTS
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Waste Acceptance Criteria Analytical Results						Landfill Waste Acceptance Criteria Limits		
QTS Environmental Report No: 6631		Date Sampled	None Supplied			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste In non hazardous Landfill	Hazardous Waste Landfill
Site Analytical Services Ltd		Time Sampled	None Supplied					
Site Reference: 16 Daleham Gardens		TP / BH No	BH2					
Project / Job Ref: 11/18172		Additional Refs	None Supplied					
Order No: 9379		Depth (m)	0.50					
Reporting Date: 25/07/2011		QTSE Sample No	28395					
Determinand	Unit	MDL						
TOC	%	<0.1	1.4			3%	5%	6%
Loss on Ignition	%	<0.01	3			--	--	10%
BTEX	mg/kg	<0.05	<0.05			6	--	--
Sum of PCBs	mg/kg	<0.7	<0.7			1	--	--
Mineral Oil	mg/kg	<6	<6			500	--	--
Total PAH	mg/kg	<1.7	<1.7			100	--	--
pH	pH Units	+/- 0.1	7.9			--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	N/A	<1			--	To be evaluated	To be evaluated
Eluate Analysis			2:1 mg/l	8:1 mg/l	Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic		<0.01	<0.01		<0.2	0.5	2	25
Boron		0.14	0.03		0.2	20	100	300
Cadmium		<0.0005	<0.0005		<0.02	0.04	1	5
Chromium		<0.005	<0.005		<0.2	0.5	10	70
Copper		<0.01	<0.01		<0.5	2	50	100
Mercury		<0.005	<0.005		<0.01	0.01	0.2	2
Molybdenum		0.001	<0.001		<0.1	0.5	10	30
Nickel		<0.007	<0.007		<0.2	0.4	10	40
Lead		<0.005	<0.005		<0.2	0.5	10	50
Antimony		0.005	<0.005		<0.05	0.05	0.7	5
Selenium		<0.005	<0.005		<0.1	0.1	0.5	7
Zinc		0.01	<0.005		<0.2	4	50	200
Chloride		11	<10		<120	800	15000	25000
Fluoride		0.1	0.05		<1	10	150	500
Sulphate		63	11		81	1000	20000	50000
TDS		195	91		491	4000	60000	100000
Phenol Index		<0.01	<0.01		<0.5	1	-	-
DOC		15.2	7.1		38.3	500	800	1000
Leach Test Information								
Sample Mass (kg)		0.220						
Dry Matter (%)		29.7						
Moisture (%)		20.3						
Stage 1								
Volume Eluate L2 (litres)		0.314						
Filtered Eluate VE1 (litres)		0.09						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. Stated limits are for guidance only and QTS Environmental cannot be held responsible for any discrepancies with current legislation.								

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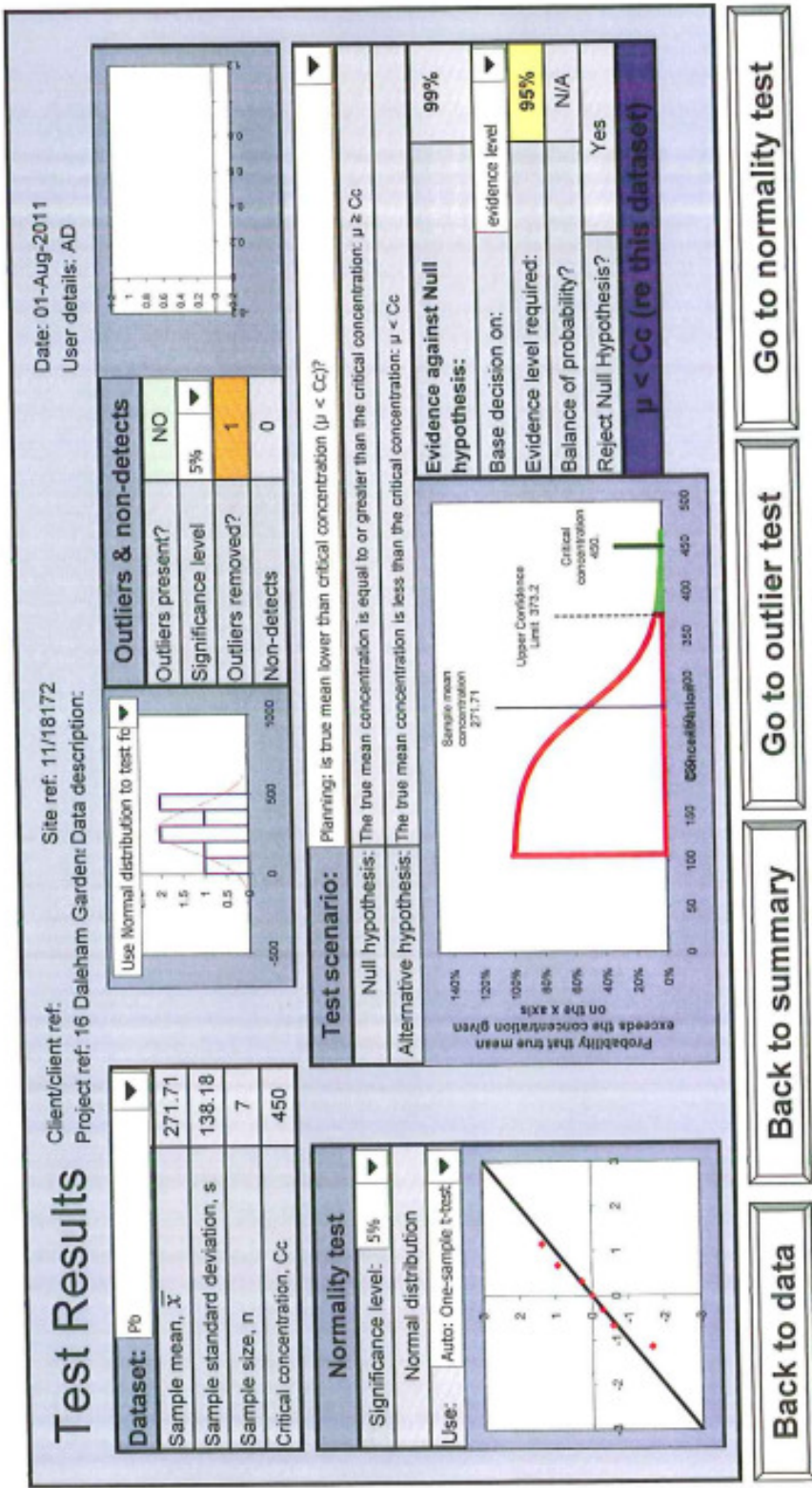


Soil Analysis Certificate - Methodology & Miscellaneous Information	
QTS Environmental Report No: 6431	
Site Analytical Services Ltd	
Site Reference: 16 Daleham Gardens	
Project / Job Ref: 11/18172	
Order No: 9379	
Reporting Date: 25/07/2011	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 dihydroxybenzoyl chloride followed by colorimetry	E016
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	AR	Asbestos Screening	Visual screening of samples for fibrous material	E024
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water followed by titration using silver nitrate	E021
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by turbidimeter	E020
Soil	D	Fluoride - Water Soluble	Test Kit	E023
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (III) sulphate	E011
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	AR	Moisture Content	Moisture content determined gravimetrically	E003
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (III) sulphate	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	D	Phosphorus	Determination of phosphorus by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Sulphate (as SO ₄) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	D	Sulphate (as SO ₄) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	AR	Sulphide	Determination of sulphide by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia, potassium iodide/iodate followed by ICP-OES	E002
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (III) sulphate	E011
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E009
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E005
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E010
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E009
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VPH (C6 - C10)	Determination of hydrocarbons C6-C10 by headspace GC-MS	E001
Soil	AR	EPH TEXAS	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	TPH CWG	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	TPH LQM	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	EPH (with floristil cleanup)	Determination of acetone/hexane extractable hydrocarbons with floristil cleanup step by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001

Key
D Dried
AR As Received

APPENDIX 'C'
Statistical Analysis



3.0 Groundwater Impact Assessment

16 Daleham Gardens
Groundwater Impact
Assessment

16 Daleham Gardens
London
NW3 5DA

Site NGR: TQ 2672 8487

Prepared for:
Mr Chris Hohn



Report no. 1121/R1
August 2011

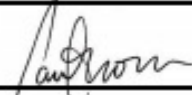
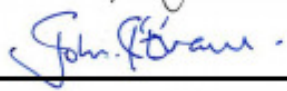
16 Daleham Gardens
Groundwater Impact
Assessment

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Report no:	1121/R1	Issue no:	3	Date:	12 th August 2011

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