APPENDIX A

BS 5837: 2012
TREE SURVEY

Advanced Tree Services

Arboricultural Survey – Definitions

Hgt	Tree Height (height in metres, measured with a clinometer)
SD	Stem diameter at 1.5 metres above ground level (in millimetres)
N-E-S-W	Branch spread taken at four compass points (in metres)
Crown clearance	Height of crown clearance above adjacent ground level (in metres)
Life Stage	**Y**- Young **SM** – Middle Aged **M** – Mature **OM** – Over Mature **V** – Veteran
P.Cond	Physiological condition **G** – Good **F** – Fair **P** – Poor **D** - Dead
S.Cond	Structural condition - General comment on safety of tree
Radius	Root Protection radius (m)
RPA	Root protection area (m^2)
ERC	Estimated remaining contribution in years
Category grading	Trees are categorized in accordance with the cascade chart given as Table 1 in B.S.5837:2012. **A -** High quality & value (40 yrs+) **B -** Moderate quality & value (20 yrs+) **C -** Low quality & value (10 yrs+) **U** – Those trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

(NB. Any value suffixed with'#" is an estimated value)

ADVANCED TREE SERVICES

Table 2 - BS 5837:2012 - Trees in Relation to design, demolition and construction - Recommendations - Cascade chart for tree quality assessment

TREES FOR REMOVAL				
Category and definition	Criteria			Identification on plan
Category U Those in such a condition that any existing value would be lost within 10 years and which should in the current context, be removed for reasons of sound arboricultural management	Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other U category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning). Trees that are dead or are showing signs of significant, immediate and irreversible overall decline. Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality. NOTE:- Category U trees can have existing or potential conservation value which it might be desirable to preserve.			**RED**
TREES TO BE CONSIDERED FOR RETENTION				
	Criteria - Subcategories			Identification on plan
Category and definition	**1 Mainly Arboricultural values**	**2 Mainly landscape values**	**3 Mainly cultural values, including conservation**	
Category A				
Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture)	**GREEN**
Category B				
Trees of moderate quality with an estimated life expectancy of at least 20 years	Trees that might be included in category A but are downgraded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and storm damage), such that are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occuring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	**BLUE**
Category C				
Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands but without this conferring on them significantly greater collective landscape value and/or trees offering low or only temporary / transient lanscpe benefits	Trees with no material conservation or other cultural value	**GREY**

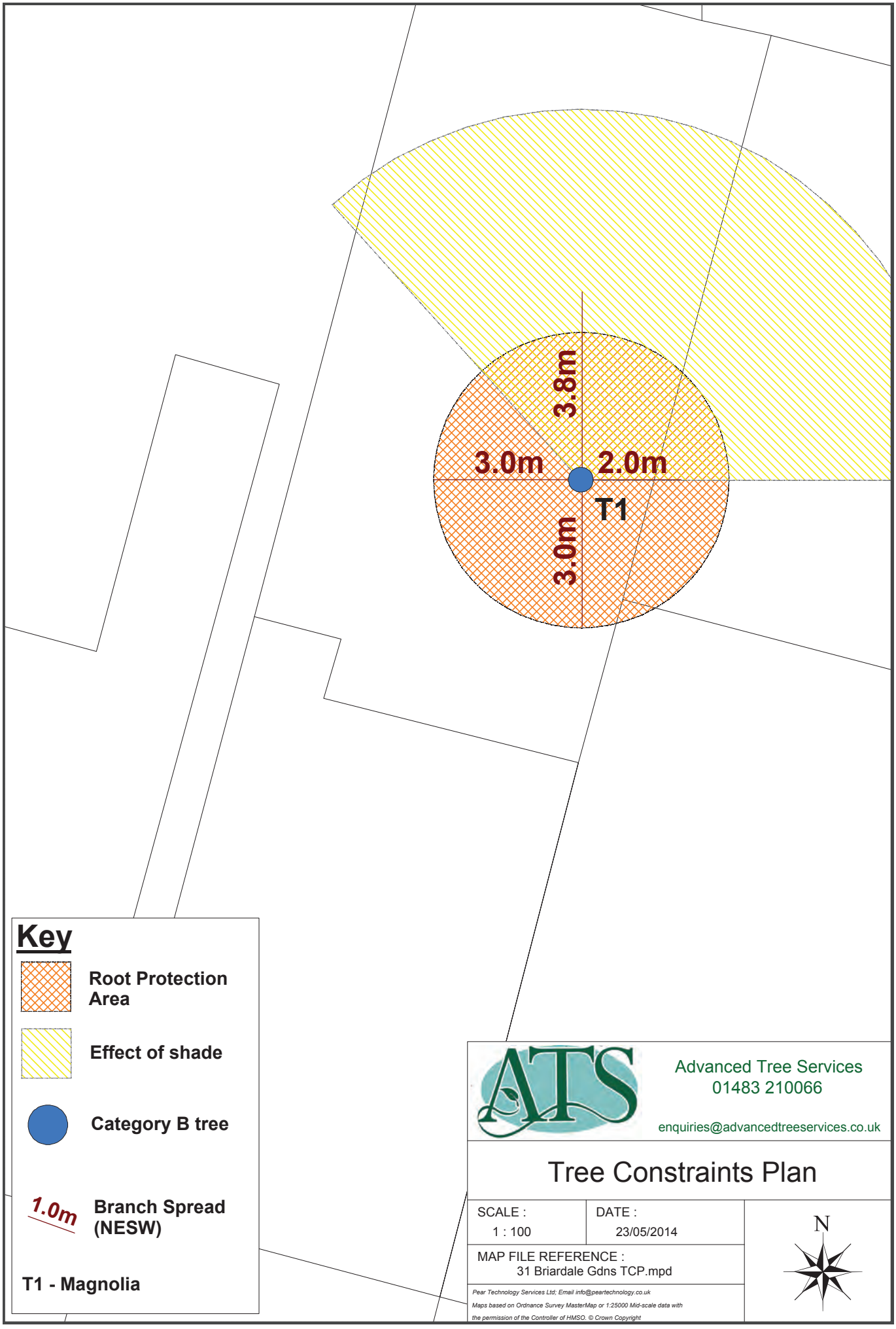
Site: 31 Briardale Gardens NW3 7PN
Client: Mr Mrs Patel
Date of Survey: 23/05/2014
Tagged: No
Surveyor: DB
Build Stage: Pre-construction
Weather: Fair

ADVANCED TREE SERVICES
TREE SURVEY SCHEDULE

Tree ID	Species	Height (m)	SD (mm)	Crown Spread (N)	Crown Spread (E)	Crown Spread (S)	Crown Spread (W)	Age Class	P.Cond	Structural Condition	Radius	RPA	Sq.Sides	ERC	Category Grading	Category Criteria	Works required for Proposal
T1	Magnolia	7.5	250	3.8	2	3	3	Mature	Good	Good. Even canopy. No extenral indications of weakness or decay.	3	28	5	10-20 yrs	B	1	See AMS

APPENDIX B

TREE CONSTRAINTS PLAN



Key

- Root Protection Area
- Effect of shade
- Category B tree
- 1.0m — Branch Spread (NESW)

T1 - Magnolia

Advanced Tree Services
01483 210066
enquiries@advancedtreeservices.co.uk

Tree Constraints Plan

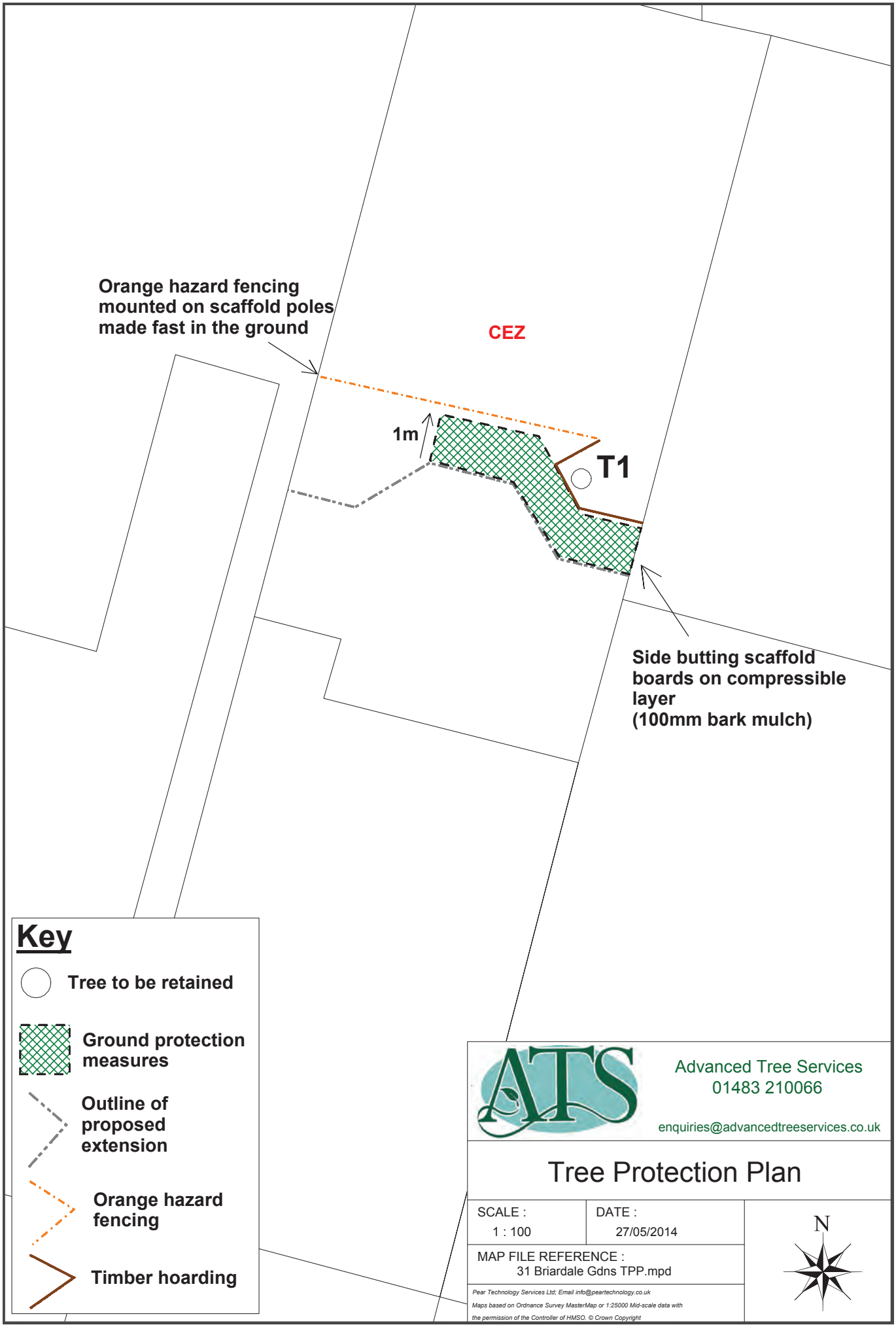
SCALE :	DATE :
1 : 100	23/05/2014

MAP FILE REFERENCE :
31 Briardale Gdns TCP.mpd

N

APPENDIX C

TREE PROTECTION PLAN



Advanced Tree Services
01483 210066
enquiries@advancedtreeservices.co.uk

Tree Protection Plan

SCALE :	DATE :
1 : 100	27/05/2014

MAP FILE REFERENCE :
31 Briardale Gdns TPP.mpd

N

APPENDIX D

SITE PHOTOGRAPHS

31 Briardale Gardens (23.05.14)

T1 - Magnolia

T1 in relation to the rear of property

31 Briardale Gardens (23.05.14)

T1 - Magnolia

APPENDIX E

SITE INSPECTION CHECKLIST

BS 5837:2012 – Trees in Relation to Design, Demolition and Construction – Recommendations

ARBORICULTURAL SITE SUPERVISION - SUMMARY

1. Once retained as Arboriculutral Consultants for a specific development site, all site monitoring will be undertaken by a suitably qualified and experienced Arboriculturalist.

2. Our Arboriculturalist will be present throughout the key operations to ensure compliance with the Arboricultural Method Statement and Tree Protection Plan. Key operational points will be agreed in writing with the client and LPA prior to commencement of works. Typically these will include;

    - Remedial tree works
    - Installation of protective measures (fences and ground)
    - Installation of site facilities
    - Demolition works
    - Installation of services
    - Landscaping within RPA's
    - Site completion

3. Monitoring will be undertaken on a fortnightly basis as well as ongoing communications with the Client, Site Manager and LPA. A checklist will be completed (*appendix a*) and a copy will be retained by the Site Manager with a copy sent to the LPA.

4. Monitoring visits will generally be unannounced. Upon arrival the Arboriculturalist will check in at the site office and inspect the tree protection measures in conjunction with the Site Manager. The Arboriculturalist will also visit the site at pre-determined dates to view specific operational issues (see above).

5. Any defects requiring attention will be notified to the Site Manager and Client (copied to the LPA by e-mail). Any emergencies will be notified to the Client and LPA by phone.

6. Day to day site supervision will be the responsibility of the Site Manager. They will be aware of the tree protection measures and significant steps in the development process which have arboricultural implications. To ensure compliance the Site Manager will undertake a site briefing with the retained Arboriculturalist before the commencement of works.

7. A final sign off visit will be carried out at the end of the development and a formal letter sent both to the client and the LPA to indicate the end of the monitoring period.

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enquiries@advancedtreeservices.co.uk
Tel: 01483 210066 Fax: 01483 225123

Arboricultural Monitoring Report Sheet

(BS 5837:2012 Trees in Relation to Design, Demolition and Construction - Recommendations)

Client		**Planning Ref:**	
Planning Authority		**Date of inspection**	

Site Address	
Site Checklist	

Protective fencing in place	
Protective fencing to specification	
Ground protection in place (if applicable)	
Site Foreman briefed	
Tree(s) damaged?	
Remedial works required	

General Comments:

Recommendations:

Report sent to LPA:		**Inspection by:**	

APPENDIX F

TRIAL PIT LOCATION

Site Analytical Services Ltd.

Site	Trial Pit Number
31 BRIARDALE GARDENS, LONDON, NW3 7PN	TT1

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
HAND EXCAVATION	2000mm (L) x 250mm (W) x 1000mm (D)		MR AND MRS PATEL	1422633
	Location	**Dates**	**Engineer**	**Sheet**
	TQ 251 861	01/12/2014	MANN WILLIAMS STRUCTURAL ENGINEERS	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					0.04	MADE GROUND : Crazy paving		
					0.06	MADE GROUND : Sand		
0.25	D1				(0.94)	MADE GROUND : Brown silty sandy clay with brick fragments and roots up to 20mm in diameter located sporadically within strata		
0.25	R1							
0.50	D2							
0.50	R2							
0.75	D3							
1.00	D4		01/12/2014:DRY		1.00	Complete at 1.00m		

Plan

Remarks

D = Disturbed Sample
R = Root Sample
Groundwater was not encountered during the excavation

Scale (approx)	Logged By	Figure No.
1:50	APS	1422633.TT1

Site Analytical Services Ltd.

Site	Trial Pit Number
31 BRIARDALE GARDENS, LONDON, NW3 7PN	TT1

Method	Dimensions	Ground Level (mOD)	Client	Job Number
Trial Pit	2000mm (L) x 250mm (W) x 1000mm (D)		MR AND MRS PATEL	1422633

Orientation	Location	Dates	Engineer	Sheet
A / D / B / C	TQ 251 861	01/12/2014	MANN WILLIAMS STRUCTURAL ENGINEERS	1/1

Strata

Depth (m)	No.	Description
0.00-0.04	1	MADE GROUND : Crazy paving
0.04-0.06	2	MADE GROUND : Sand
0.06-1.00	3	MADE GROUND : Brown silty sandy clay with brick fragments and roots up to 20mm in diameter located sporadically within strata

Samples and Tests

Depth (m)	Type	Field Records
0.25	D1	
0.25	R1	
0.50	D2	
0.50	R2	
0.75	D3	
1.00	D4	

Excavation Method:

HAND EXCAVATION

Shoring / Support:

N/A

Stability:

Good

Backfill:

Arisings

Remarks

D = Disturbed Sample
R = Root Sample
Groundwater was not encountered during the excavation

Logged By	: APS
Checked By	: APS
Figure No.	: 1422633.TT1