



Ground and Water Limited
Kineton House,
31 Horse Fair,
Banbury,
Oxfordshire,
OX16 0AE
Tel: 0333 600 1221

E-mail: enquiries@groundandwater.co.uk/
chris.gordon@groundandwater.co.uk

Preliminary Ground Investigation Report

CLIENT	Balwinder Gill
SITE ADDRESS	Land to the rear of 5 – 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR.
REPORT REFERENCE	GWPR3961 Conditions and limitations of this preliminary summary can be viewed within Appendix A.
ENGINEER	Chris Gordon, Ground and Water Limited.
EXISTING DEVELOPMENT	At the time of reporting in December 2020, the site comprised a total of thirty-five single storey flat roof domestic garages arranged over three separate blocks along the northern, southern, and western boundaries. The site was accessible directly from Brampton Road at its north western corner via a narrow access road leading into the existing garage plaza. The site was almost entirely hard landscaped with only a small area of soft landscaping bordering the western garage block.
PROPOSED DEVELOPMENT	Under planning reference 74993/APP/2019/2504 dated 13 th February 2020, the proposed development comprised demolition of the existing garages and the constructions of three, four-bedroom residential properties with provision for private gardens, parking, and associated areas of hard and soft landscaping.
BGS BOREHOLE RECORDS	The anticipated geology for the site was superficial deposits of the Black Park Gravel Member (Sand and Gravel) overlying bedrock deposits of the London Clay Formation. A BGS borehole record (ref: TQ08SE228) some ~500m south of the site located at Hillingdon Fire Station identified a Tarmacadam and reinforced concrete hardstanding to proved depths of 0.20m bgl, underlain with yellowish grey clayey gravelly sand to a proved depth of 0.40m bgl underlain with a stiff greyish yellowish sandy silty clay with flint gravels to a proved depth of 1.00m bgl and becoming a firm to stiff grey fissured silty clay to the base of the borehole to a proved depth of 15.00m bgl. The clay became very stiff and closely fissured from 10.00m bgl with no record of a groundwater strike. Records of an adjacent trial pit (ref: TQ08SE233) noted similar geology of tarmacadam and reinforced concrete hardstanding to 0.25m bgl onto underlying dark greyish brown sandy gravelly clay to proved depths of 0.30m bgl onto underlying silty sand and gravel to the pit base at a proved depth of 1.50m bgl, no groundwater strike was recorded in the trial pit.
INVESTIGATION LOCATIONS	Site works were undertaken on Thursday 19 th November 2020 and comprised the drilling of 5No. Hand Held Window Sampler Boreholes (WS1 – WS5) to a maximum depth of between 1.60 – 1.90m below ground level (bgl). The borehole drilling was terminated in all locations due to refusal in the underlying dense sand and gravel. Heavy Dynamic Probing (HDP) was also undertaken in WS1 and WS5 extending from the borehole base to a maximum penetration of 2.50m bgl before also terminating due to refusal in the underlying dense sand and gravel; equivalent SPTs blow values were recorded within the probes and a number of disturbed samples were recovered from the boreholes for geotechnical laboratory testing. Additional works comprised the hand digging of 2No. Trial Pits to a maximum depth of 0.50m bgl to obtain disturbed samples for chemical testing, the trial pits were positioned in the area of the proposed private gardens. A trial hole location plan can be viewed within Figure 1 and the trial holes logs are presented within Appendix B.
GROUND CONDITIONS ENCOUNTERED	A tabulated summary of the ground conditions encountered can be viewed overleaf and the trial hole logs are presented as Appendix B.

	Summary of Strata Encountered (Full logs provided within Appendix B)			
	Strata	Top Depth (m bgl)	Base Depth (m bgl)	Thickness (m)
	CONCRETE HARDSTANDING: (In all trial holes with the exception of WS5 in an area of isolated soft landscaping).	GL	0.20	0.20
	MADE GROUND: (In all trial holes) Multicoloured sandy very gravelly clay/ clayey very gravelly sand or clayey sandy gravel. Sand is fine to coarse. Gravel is angular to rounded fine to medium flint brick and tarmacadam. Or Dark greyish brown sandy slightly gravelly silt. Sand is fine to medium. Gravel is subangular to rounded fine to medium flint, brick and tarmacadam. (Encountered in WS5).	GL – 0.20	0.40 – 0.80	0.20 – 0.80
	BLACK PARK GRAVEL MEMBER – Granular (WS1, WS2, WS4 and WS5) Dark orangish brown and grey mottled or dark reddish and orangish brown clayey sand and gravel. Sand is coarse. Gravel is angular to rounded fine to coarse flint.	0.40 – 0.80	>0.50 - >1.90	>0.10 - >1.30
GROUNDWATER	BLACK PARK GRAVEL MEMBER - Cohesive (WS2, WS3) Dark orangish brown and grey mottled sandy gravelly clay with rare orange sand lenses.	0.40 – 1.00	>0.50 - >1.80	>0.10 – >1.20
	Groundwater ingress was noted in all borehole locations (WS1 – WS5) at the base of the wells at depths of between 1.60 – 1.90m bgl. No groundwater was recorded in the hand dug trial pits (TP1 – TP2). The limited water ingress was considered to be pockets of perched groundwater within granular horizons of the Black Park Gravel Member. It should be noted that groundwater strikes may have been obstructed by the drilling process.			
ROOTS	Fresh roots were noted only in WS4 and WS5 to proven depths of between 0.60 – 0.80m bgl. It must be noted that the chance of determining actual depth of root penetration through a narrow diameter borehole is low. Roots may be found to greater depths at other locations on the site, particularly close to trees and/or trees that have been removed both within the site and its close environs.			
IN-SITU STRENGTH TESTING	The following information comprised the findings of the equivalent SPT blow counts within DP1 and DP5: Inferred Granular Black Park Gravel Member – DP1/ 1.60 – 2.50m bgl: Equivalent SPT blow counts of between 87 - 144, equating to extremely dense soils. Inferred Granular Black Park Gravel Member – DP5/ 1.90 – 2.50m bgl: Equivalent SPT blow counts of between 67 – 141, equating to extremely dense soils.			
ANTICIPATED VOLUME CHANGE POTENTIAL	The following volume change potential was anticipated based on a physical and visual appraisal of the soils encountered and was subject to confirmation of results of geotechnical classification testing: Granular Black Park Gravel Member: Likely to have no to low volume change potential in accordance with BRE240 and NHBC Standards Chapter 4.2. Cohesive Black Park Gravel Member: Likely to have low to medium volume change potential in accordance with BRE240 and NHBC Standards Chapter 4.2.			
TRIAL PIT CONTAMINATION ASSESSMENT	A total of 5No. disturbed samples were obtained from soils recovered from trial holes WS1 – WS5, TP1 and TP2 for chemical analysis. At the time of writing the preliminary summary, we are awaiting the results. A full chemical assessment will be included within the final report. No visual or olfactory indicators of contamination were noted during the ground investigation.			
FOUNDATION RECOMMENDATIONS	At the time of reporting in December 2020, under planning reference 74993/APP/2019/2504, the proposed development comprised demolition of the existing garages and the constructions of three, four-bedroom residential properties with private gardens, parking, and associated areas of communal hard and soft landscaping. The following conclusions have been noted following the site investigation: Made Ground was noted to a proved depth of 0.40 – 0.80m bgl within all trial hole locations. Given its variability in strength and composition, any Made Ground deposits should be bypassed;			

- The depth of root penetration was proved within WS4 and WS5 only, to depths of between 0.60 – 0.80m bgl. **Foundations must not be placed within root penetrated and/or desiccated soils with volume change potential.** It is recommended that foundations are taken at least 300mm into non-root penetrated strata should roots be encountered at other locations across the site if the soils have volume change potential, or into soils of no volume change potential (in case of thick gravelly layers and not interbedded with clays). The influence of trees on or surrounding the site will need to be considered in final design (NHBC Standards Chapter 4.2) (tree rings);
- Superficial granular deposits of the Black Park Gravel Member were most likely comprising soils of no to low volume change potential and cohesive horizons of the Black Park Gravel Member were most likely comprising soils of low to medium volume change potential in accordance with NHBC Standards Chapter 4.2 and BRE240. **The foundation design should be compliant with the highest risk volume change potential following geotechnical classification testing.**
- Soils of the inferred granular Black Park Gravel Member represented equivalent blow counts of extremely dense soils therefore **superficial deposits of the Black Park Gravel Member were considered to be a competent bearing stratum;**

Foundation Design:

Based on the above, foundations should bypass the Made Ground and be founded on the Black Park Gravel Member. A summary table of the minimum foundation depths based on the findings within each trial hole can be tabulated below. This does not take tree calculations into account.

Minimum / Proposed Foundation Depth					
Trial Hole	Root Depth (m bgl)	MG Depth	Determining Factor	Minimum Foundation Depth (m bgl)	Expected Founding Stratum
WS1	-	0.80	Founding below Made Ground into underlying granular natural soils.	0.80 (for low VCP)	Black Park Gravel Member
WS2	-	0.60	Founding below Made Ground into underlying granular natural soils only to 1.00m bgl and then into cohesive soils of high-volume change potential. Minimum foundation depth required for medium VCP.	0.90	
WS3	-	0.60	Founding below Made Ground into cohesive natural soils of medium-volume change potential. Minimum foundation depth required for soils of medium VCP.	0.90	
WS4	0.60	0.60	Founding below Made Ground and 300mm below root penetrated soils into underlying natural granular stratum.	0.90	
WS5	0.80	0.80	Founding below Made Ground and 300mm below root penetrated soils into underlying natural granular stratum.	1.10	

Foundations constructed within these cohesive soils can be designed on an assumed **safe bearing capacity of 150 - 200kPa**. Settlements on loading at these depths are likely to be **low**. This was based on trial hole records, the results of the in-situ testing, inspection of samples recovered, and referral to BS 8004:2015, *Code of Practice for Foundations*, and based on a 5m long by 0.75m wide foundation, a 5m long by 1.00m wide foundation, a 1.50m long by 1.50m wide foundation and a maximum settlement of 25mm. Foundations should ideally not be spanning across materials of different consistency eg sand and clay, in order to minimise potential differential settlements. If this cannot be avoided, then foundations will need to be reinforced.

Hydrogeological Considerations

Groundwater was recorded in the base of all borehole locations (WS1 – WS5) at depths of between 1.60 –

1.90m bgl. It should be noted that groundwater strikes may have been obstructed by the drilling process and the presence of any shallow perched groundwater within granular horizons of the Black Park Gravel Member should not be discounted.

Given the current information, it was unlikely that significant groundwater will be encountered during foundation excavation/construction works; however, perched water may be present within localised shallow Made Ground and granular horizons of the underlying Black Park Gravel Member. The advice of a reputable dewatering contractor, familiar with the type of ground and groundwater conditions encountered on this site, should be sought prior to finalising the design of any foundation excavation and they should be suitably tanked. Particular if construction is likely to fall outside the drier hotter months where the presence of prolonged and intense rainfall is likely.

This preliminary information may be subject to amendment in the final report and no liability can be accepted for any actions based on this preliminary information.

Figure 1 Trial Hole Location Plan

Appendix A Conditions and Limitations

Appendix B Trial Hole Logs

APPENDIX A

Conditions and Limitations

The ground is a product of continuing natural and artificial processes. As a result, the ground will exhibit a variety of characteristics that vary from place to place across a site, and also with time. Whilst a ground investigation will mitigate to a greater or lesser degree against the resulting risk from variation, the risks cannot be eliminated.

The report has been prepared on the basis of information, data and materials which were available at the time of writing. Accordingly, any conclusions, opinions or judgements made in the report should not be regarded as definitive or relied upon to the exclusion of other information, opinions and judgements.

The investigation, interpretations, and recommendations given in this report were prepared for the sole benefit of the client in accordance with their brief as such these do not necessarily address all aspects of ground behaviour at the site. No liability is accepted for any reliance placed on it by others unless specifically agreed in writing.

Any decisions made by you, or by any organisation, agency or person who has read, received or been provided with information contained in the report ("you" or "the Recipient") are decisions of the Recipient and we will not make, or be deemed to make, any decisions on behalf of any Recipient. We will not be liable for the consequences of any such decisions.

Current regulations and good practice were used in the preparation of this report. An appropriately qualified person must review the recommendations given in this report at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.

Any Recipient must consider any other factors apart from the Report of which they and their experts and advisers are or should be aware. The information, data, conclusions, opinions and judgements set out in the report may relate to certain contexts and may not be suitable in other contexts. It is your responsibility to ensure that you do not use the information we provide in the wrong context.

This report is based on readily available geological records, the recorded physical investigation, the strata observed in the works, together with the results of completed site and laboratory tests. Whilst skill and care has been taken to interpret these conditions likely between or below investigation points, the possibility of other characteristics not revealed cannot be discounted, for which no liability can be accepted. The impact of our assessment on other aspects of the development required evaluation by other involved parties.

The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous in ground activities. The ground conditions have been sampled or monitored in recorded locations and tests for some of the more common chemicals generally expected. Other concentrations of types of chemicals may exist. It was not part of the scope of this report to comment on environment/contaminated land considerations.

The conclusions and recommendations relate to **Land to rear of 5 – 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR.**

Trial hole is a generic term used to describe a method of direct investigation. The term trial pit, borehole or window sampler borehole implies the specific technique used to produce a trial hole.

The depth to roots and/or of desiccation may vary from that found during the investigation. The client is responsible for establishing the depth to roots and/or of desiccation on a plot-by-plot basis prior to the construction of foundations. Where trees are mentioned in the text this means existing trees, recently removed trees (approximately 15 years to full recovery on cohesive soils) and those planned as part of the site landscaping.

Ownership of copyright of all printed material including reports, laboratory test results, trial pit and borehole log sheets, including drillers log sheets, remain with Ground and Water Limited. Licence is for the sole use of the client and may not be assigned, transferred or given to a third party.

Only our client may rely on this report and should this report or any information contained in it be provided to any third party we accept no responsibility to the third party for the contents of this report save to the extent expressly outlined by us in writing in a reliance letter addressed from us to the third party.

Recipients are not permitted to publish this report outside of their organisation without our express written consent.

APPENDIX B
Trial Hole Logs



Percussion Drilling Log

Project Name: Land to rear 5 - 13 Brampton Road		Client: Blawinder Gill		Date: 19/11/2020	
Location: Land to rear 5 - 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR		Contractor:			
Project No. : GWPR3961		Crew Name: KDS Drilling Service		Drilling Equipment: DANDO 2000	
Borehole Number WS1	Hole Type CP	Level	Logged By CG	Scale 1:50	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.20			MADE GROUND: CONCRETE HARDSTANDING.	
		0.50	D					MADE GROUND: Dark brown sandy very gravelly clay. Sand is fine to medium. Gravel is subangular to rounded fine to medium flint (95%) with rare brick (5%).	
		1.00	D		0.80			Dark brown very clayey GRAVEL with occasional pockets of clay. Gravel is subangular to subrounded fine to medium flint (100%).	1
	▼	1.60	D		1.10			Dark orangish brown clayey SAND and GRAVEL. Sand is coarse. Gravel is frequent subangular to rounded fine to medium flint (100%). BLACK PARK GRAVEL MEMBER.	
					1.60			End of Borehole at 1.600m	2
									3
									4
									5
									6
									7
									8
									9
									10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Groundwater encountered at the base of the borehole at a depth of 1.60m bgl. No roots encountered. Borehole terminated at a depth of 1.60m bgl due to refusal in dense gravels and reverse backfilled with arisings. ES - Environmental Sample, D - Disturbed Sample, SPT - Standard Penetration Test.





Percussion Drilling Log

Project Name: Land to rear 5 - 13 Brampton Road		Client: Blawinder Gill		Date: 19/11/2020	
Location: Land to rear 5 - 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR		Contractor:			
Project No. : GWPR3961		Crew Name: KDS Drilling Service		Drilling Equipment: DANDO 2000	
Borehole Number WS2	Hole Type CP	Level	Logged By CG	Scale 1:50	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.20			MADE GROUND: CONCRETE HARDSTANDING.	
		0.50	D		0.60			MADE GROUND: Dark brownish grey clayey very gravelly coarse grained sand. Gravel is frequent angular to subrounded, rarely rounded, fine to medium flint (95%) and brick (5%).	
		0.80	D		1.00			Dark orangish brown and grey mottled clayey very sandy GRAVEL. Sand is coarse. Gravel is frequent subangular to rounded fine to medium flint (100%) with rare grey clay lenses. BLACK PARK GRAVEL MEMBER.	1
		1.00	D		1.80			Dark orangish brown and grey mottled sandy CLAY with rare orange sand lenses. BLACK PARK GRAVEL MEMBER.	2
		1.80	D					End of Borehole at 1.800m	
									3
									4
									5
									6
									7
									8
									9
									10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks
Groundwater encountered at the base of the borehole at a depth of 1.80m bgl. No roots encountered. Borehole terminated at a depth of 1.80m bgl due to refusal in dense gravels and reverse backfilled with arisings. ES - Environmental Sample, D - Disturbed Sample, SPT - Standard Penetration Test.





Percussion Drilling Log

Project Name: Land to rear 5 - 13 Brampton Road		Client: Blawinder Gill		Date: 19/11/2020	
Location: Land to rear 5 - 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR		Contractor:			
Project No. : GWPR3961		Crew Name: KDS Drilling Service		Drilling Equipment: DANDO 2000	
Borehole Number WS3	Hole Type CP	Level	Logged By CG	Scale 1:50	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.20			MADE GROUND: CONCRETE HARDSTANDING.	
		0.50	D		0.60			MADE GROUND: Light greyish brown clayey sandy gravel. Sand is fine to coarse. Gravel is angular to subrounded fine to medium flint (95%) and rare brick (5%).	
		0.80	D					Dark orangish brown mottled grey sandy very gravelly CLAY. Sand is fine to coarse. Gravel is frequent subangular to rounded fine to medium flint (100%). BLACK PARK GRAVEL MEMBER.	1
	▼	1.00	D						
		1.70	D		1.80			End of Borehole at 1.800m	2
									3
									4
									5
									6
									7
									8
									9
									10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Groundwater encountered at the base of the borehole at a depth of 1.80m bgl. No roots encountered. Borehole terminated at a depth of 1.80m bgl due to refusal in dense gravels and reverse backfilled with arisings. ES - Environmental Sample, D - Disturbed Sample, SPT - Standard Penetration Test.





Percussion Drilling Log

Project Name: Land to rear 5 - 13 Brampton Road		Client: Blawinder Gill		Date: 19/11/2020	
Location: Land to rear 5 - 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR		Contractor:			
Project No. : GWPR3961		Crew Name: KDS Drilling Service		Drilling Equipment: DANDO 2000	
Borehole Number WS4	Hole Type CP	Level	Logged By CG	Scale 1:50	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.20			MADE GROUND: CONCRETE HARDSTANDING.	
		0.50	ES		0.60			MADE GROUND: Dark brown slightly sandy very gravelly clay with occasional roots. (<1 - 5mm). Sand is fine to coarse. Gravel is subangular to subrounded fine to medium flint (95%) and rare brick (5%).	
		0.80	D					<i>Roots no longer encountered.</i>	
		1.00	D					Dark orangish brown mottled grey clayey very sandy GRAVEL. Sand is coarse. Gravel is subangular to rounded fine to coarse flint (100%). BLACK PARK GRAVEL MEMBER.	1
		1.50	D		1.50			Dark reddish and orangish brown clayey slightly gravelly fine to medium-grained SAND. Gravel is rare subangular to subrounded fine flint (100%). BLACK PARK GRAVEL MEMBER.	2
	▼				1.90			End of Borehole at 1.900m	
									3
									4
									5
									6
									7
									8
									9
									10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Groundwater encountered at the base of the borehole at a depth of 1.90m bgl. Roots were encountered to a maximum penetration of 0.60m bgl. Borehole terminated at a depth of 1.90m bgl due to refusal in dense gravels and reverse backfilled with arisings. ES - Environmental Sample, D - Disturbed Sample, SPT - Standard Penetration Test.





Date: 19/11/2020

Contractor:

Drilling Equipment: DANDO 2000

Page Number
Sheet 1 of 1[illegible]

Groundwater encountered at the base of the borehole at a depth of 1.90m bgl. Roots were encountered to a maximum concentration of 0.8m bgl. Borehole terminated at a depth of 1.90m bgl due to refusal in dense gravels and reverse backfilled with arisings. ES - Environmental Sample, D - Disturbed Sample, SPT - Standard Penetration Test.



Trial Pit Log

Project Name: Land to rear 5 - 13 Brampton Road		Client: Blawinder Gill		Date: 19/11/2020	
Location: Land to rear 5 - 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR		Contractor:			
Project No. : GWPR3961		Crew Name: KDS Drilling Service		Equipment: Hand Dug Pit	
Location Number TP1	Location Type TP	Level	Logged By CG	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20			MADE GROUND: CONCRETE HARDSTANDING.	1
		0.30	ES		0.40			MADE GROUND: Dark grey to black medium to coarse grained sandy gravel. Gravel is subangular to subrounded fine tarmacadam (90%), brick (5%) and flint (5%).	
		0.50	D		0.50			Light greyish brown clayey very sandy GRAVEL. Sand is coarse. Gravel is frequent subrounded to rounded fine to medium flint (100%). BLACK PARK GRAVEL MEMBER.	
								End of Borehole at 0.500m	2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
0.50	0.50	STABLE	Not Required				

Remarks No groundwater encountered. No roots encountered. Hand dug pit terminated at a depth of 0.50m bgl as the base of the Made Ground was proven. Pit was reverse backfilled with arisings and compacted on completion. ES - Environmental Sample, D - Disturbed Sample, SPT - Standard Penetration Test.							
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Trial Pit Log

Project Name: Land to rear 5 - 13 Brampton Road		Client: Blawinder Gill		Date: 19/11/2020	
Location: Land to rear 5 - 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR		Contractor:			
Project No. : GWPR3961		Crew Name: KDS Drilling Service		Equipment: Hand Dug Pit	
Location Number TP2	Location Type TP	Level	Logged By CG	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20			MADE GROUND: CONCRETE HARDSTANDING.	
		0.30	ES		0.40			MADE GROUND: Dark grey to black medium to coarse grained sandy gravel. Gravel is subangular to subrounded fine tarmacadam (90%), brick (5%) and flint (5%).	
		0.50	ES		0.50			Dark yellowish brown sandy very gravelly CLAY. Sand is medium to coarse. Gravel is angular to rounded fine to medium flint (100%). BLACK PARK GRAVEL MEMBER. End of Borehole at 0.500m	
									1
									2
									3
									4
									5

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
0.50	0.50	STABLE	Not required				

Remarks	
No groundwater encountered. No roots encountered. Hand dug pit terminated at a depth of 0.50m bgl as the base of the Made Ground was proven. Pit was reverse backfilled with arisings and compacted on completion. ES - Environmental Sample, D - Disturbed Sample, SPT - Standard Penetration Test.	



Probe Log

Probe No
DP5
Sheet 1 of 1

Project Name: Land to rear 5 - 13 Brampton Road

Project No.
GWPR3961

Co-ords:

Hole Type
DP

Location: Land to rear 5 - 13 Brampton Road, Hillingdon, Uxbridge, Middlesex UB10 0DR

Level:

Scale
1:25

Client: Blawinder Gill

Dates: 19/11/2020

Logged By

Depth (m)	Blows/100mm																								Torque (Nm)
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
1																									
2	21																								
	23																								
	23																								
	39																								
	51																								
	51																								
	60																								
3																									
4																									

Remarks:
Probing terminated at 2.50m bgl due to refusal on dense sand and gravel.

Fall Height 500

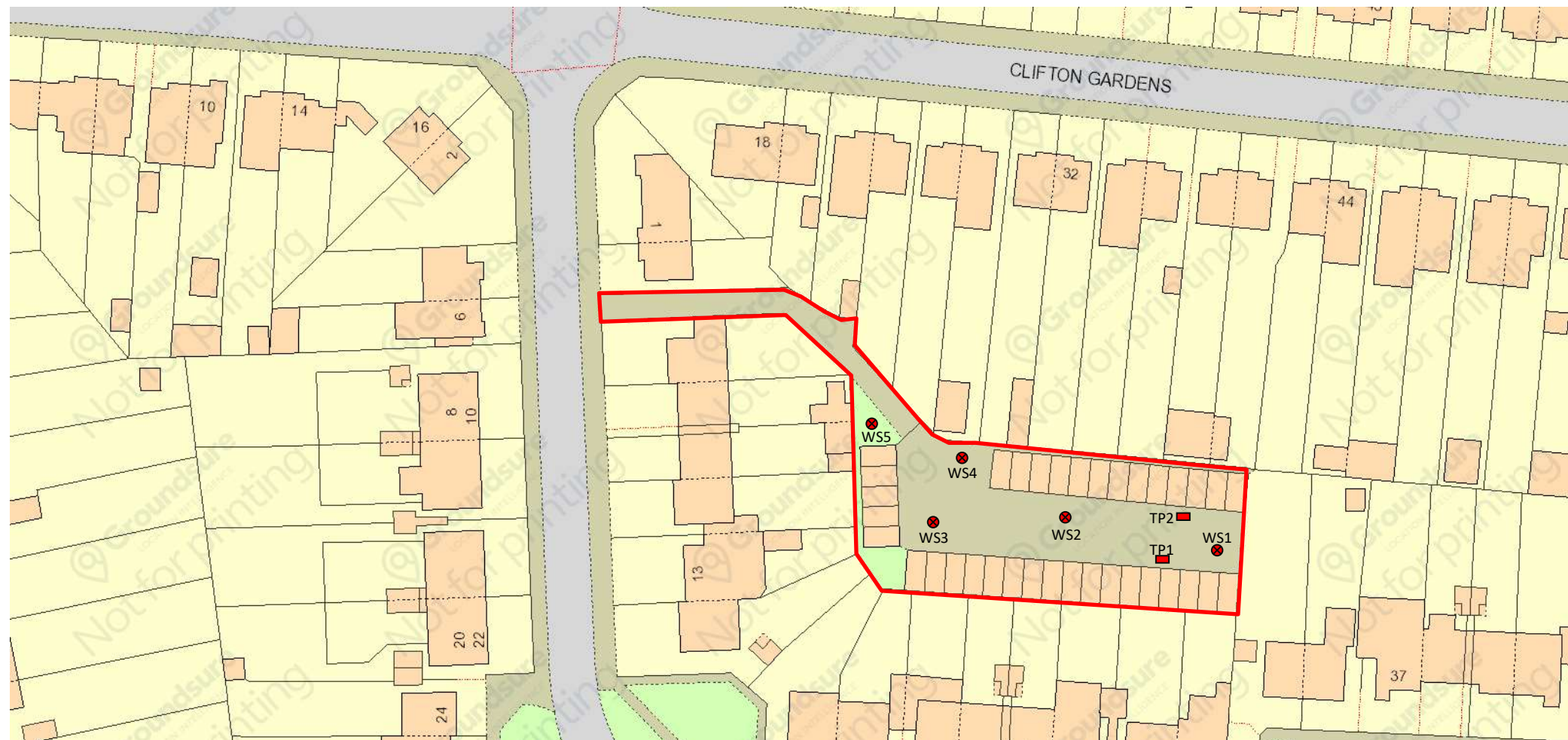
Cone Base Diameter

Hammer Wt 50

Final Depth 1.90

Probe Type





Project:

Land to the rear of 5-13 Brampton Road, Hillingdon, Uxbridge UB10 ODR

Client:

Date:

November 2020

Proposed Trial Hole Location Plan

Ref:

GWPR3961

Figure 1

