SubsNetUK

GEOTECHNICAL
for Subsidence Management Services

9 Regent 's Park Terrace, , London, NW1 7EE

Client: Subsidence Management Services

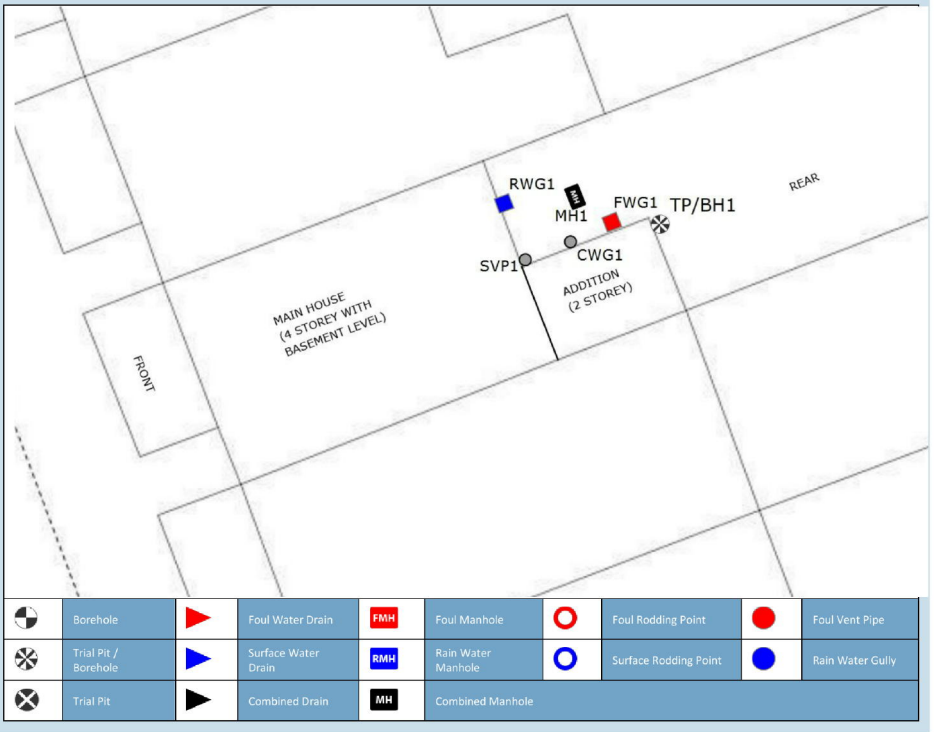
Client Contact: Martel Hawkins

[redacted]

Report Date: 9 April 2019

[redacted]

Site Plan



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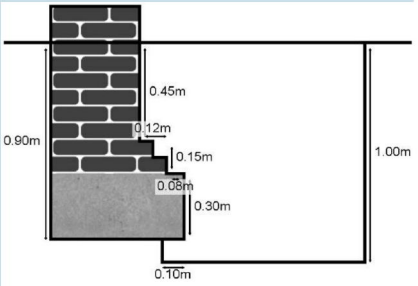
TP/BH1 Foundation Detail and Borehole Log

Foundation Detail

Addition foundation comprised of brick wall to 450mm bgl, bearing on stepped brick to 600mm bgl with a total projection of 120mm from the elevation. In turn, bearing on brick/concrete to 900mm bgl with a total projection of 200mm from the elevation. Underside of foundation (USF) was exposed to 100mm back from the face of the foundation and probed 300mm back from the face of the foundation.



WS	Samples Type	Samples Depth (m)	Tests Type	Tests Depth (m)	Tests Results	Legend	Stratum Description and Observations
						0	PAVING SLAB.
							SCREED BEDDING.
							MADE GROUND: Firm brown mottled orange slightly sandy slightly gravelly CLAY with occasional fine to medium brick.
							..at 0.20m to 0.90m bgl numerous roots of live appearance encountered.
						0.5	
D R	0.90 - 1.40 0.90 - 1.60	PEN	0.90	HP=2.2 (2.0,2.5,2.5,2.0,2.0)			..at 0.90m bgl UNDERSIDE OF ADDITION FOUNDATION.
							..at 0.90m to 1.60m bgl numerous roots of live appearance encountered and sampled.
						1.0	..at 1.00m bgl base of hand excavated trial pit.
D	1.40 - 1.70	PEN	1.40	HP=2.0 (2.0,2.0,2.0,2.0,2.0)		1.5	
							..at 1.60m to 4.00m bgl no roots encountered. Extensive inspection of soil samples encountered no roots.
D	1.70 - 2.00	PEN	1.70	HP=1.0 (1.0,1.0,1.0,1.0,1.0)			MADE GROUND: Soft/Firm dark grey slightly silty slightly gravelly CLAY with occasional fine brick and coal fragments.
D	2.00 - 2.50	PEN	2.00	HP=2.0 (2.0,2.0,2.0,2.0,2.0)		2.0	Soft greyish brown mottled orange CLAY.
D	2.50 - 3.00	PEN	2.50	HP=2.0 (2.0,2.0,2.0,2.0,2.0)		2.5	..at 2.50m bgl becoming brown mottled grey.
D	3.00 - 3.50	PEN	3.00	HP=2.0 (2.0,2.0,2.0,2.0,2.0)		3.0	
D	3.50 - 4.00	PEN	3.50	HP=2.0 (2.0,2.0,2.0,2.0,2.0)		3.5	
		PEN	4.00	HP=2.0 (2.0,2.0,2.0,2.0,2.0)		4.0	..at 4.00m bgl target depth achieved.

-- End of borehole at 4.00m --
Trial pit excavated to 1.00m bgl. Borehole completed by hand held percussive window sampler. Roots encountered to 1.60m bgl. Groundwater encountered at 2.00m bgl. Standing water level within the exploratory hole at 3.50m bgl on completion.

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Site Observations

GENERAL:
Site Investigation works undertaken on 26 March 2019 during dry weather (i.e. no rain).

HEALTH AND SAFETY:
Negative signal obtained in Power and Radio and Genny mode on the Cable Avoidance Tool (CAT) at TP/BH 1.

FOUNDATIONS:
Addition foundation was exposed and the underside of foundation (USF) recorded to be 0.90m bgl in TP/BH 1.

ROOTS:
Roots encountered to 1.60m bgl in TP/BH 1.

IN SITU TESTING:
Hand Penetrometer (PEN) undertaken at 0.90m bgl within the hand excavated trial pit and thereafter in the windowless sampler at maximum 0.50m intervals in TP/BH 1.

WATER STRIKES:
A water strike (WS) was encountered in the clay at 2.00m bgl, with a standing water level (SWL) recorded at 2.00m bgl after 10 minutes in TP/BH 1. Standing water level within the exploratory hole at 3.50m bgl on completion.

The groundwater observations do not necessarily indicate equilibrium conditions. It should be appreciated that groundwater levels are subject to both seasonal and weather induced variations. Other effects such as construction activities may also change groundwater levels.