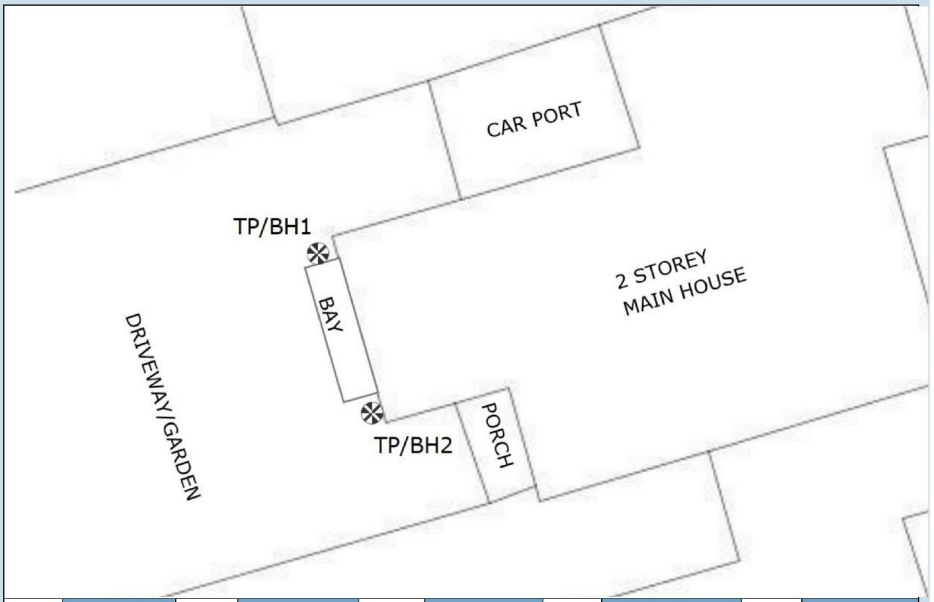
SubsNetUK

GEOTECHNICAL
for Subsidence Management Services

54 Hillway, London, N6 6EP

Client:	Subsidence Management Services
Client Contact:	Kevin Phillips
Client Ref:	[redacted]
Policy Holder:	
Report Date:	20 February 2019
Our Ref:	[redacted]

Site Plan



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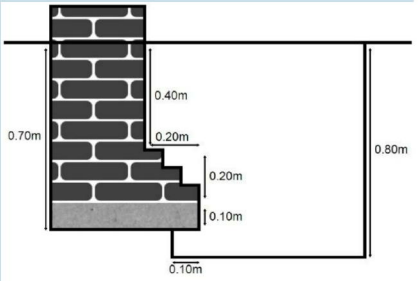
TP/BH1 Foundation Detail and Borehole Log

Foundation Detail

Bay foundation comprised of brick wall to 400mm bgl, bearing on stepped brickwork to 600mm bgl with a total projection of 200mm from the elevation. In turn, bearing on concrete to 700mm 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	Depth (m)	Tests Type	Depth (m)	Results
R D	0.70 - 1.20	0.70 - 1.20	PEN	0.70	HP=3.5 (3.5,3.5,3.5,3.5,3.5)
D R	1.20 - 1.70	1.20 - 1.70	PEN	1.20	HP=3.5 (3.5,3.5,3.5,3.5,3.5)
R D	1.70 - 2.20	1.70 - 2.20	PEN	1.70	HP=3.5 (3.5,3.5,3.5,3.5,3.5)
D R	2.20 - 2.70	2.20 - 2.70	PEN	2.20	HP=3.0 (3.0,3.0,3.0,3.0,3.0)
D R	2.70 - 3.20	2.70 - 3.20	PEN	2.70	HP=3.0 (3.0,3.0,3.0,3.0,3.0)
R D	3.20 - 3.70	3.20 - 3.70	PEN	3.20	HP=3.0 (3.0,3.0,3.0,3.0,3.0)
D R	3.70 - 4.00	3.70 - 4.00	PEN	3.70	HP=2.5 (2.5,2.5,2.5,2.5,2.5)

Legend

Stratum Description and Observations

TOPSOIL.

Firm brown mottled orange grey CLAY.
..at 0.70m to 1.20m bgl numerous roots of live appearance encountered and sampled.
..at 0.70m bgl UNDERSIDE OF BAY FOUNDATION.
..at 0.80m bgl base of hand excavated trial pit.

..at 1.20m to 1.70m bgl numerous roots of live appearance encountered and sampled.

..at 1.70m to 2.20m bgl numerous roots of live appearance encountered and sampled.

..at 2.20m bgl becoming slightly sandy.
..at 2.20m to 2.70m bgl numerous roots of live appearance encountered and sampled.

..at 2.70m to 3.20m bgl numerous roots of live appearance encountered and sampled.

..at 3.20m to 3.70m bgl numerous roots of live appearance encountered and sampled.

..at 3.70m bgl becoming mottled black.
..at 3.70m to 4.00m bgl numerous roots of live appearance encountered and sampled.

..at 4.00m bgl target depth achieved.

-- End of borehole at 4.00m --
Trial pit excavated to 0.80m bgl. Borehole completed by hand auger and hand held percussive window sampler.

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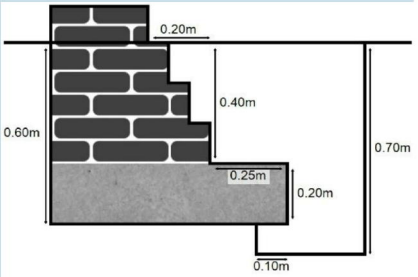
TP/BH2 Foundation Detail and Borehole Log

Foundation Detail

House foundation comprised of brick wall to 100mm bgl, bearing on stepped brickwork to 400mm bgl with a total projection of 200mm from the elevation. In turn, bearing on concrete to 600mm bgl with a total projection of 450mm from the elevation. Underside of foundation (USF) was exposed to 100mm back from the face of the foundation and probed 500mm 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	TOPSOIL.
						0.5	Firm brown mottled orange grey CLAY.
	R D	0.60 - 1.10 0.60 - 1.10	PEN	0.60	HP=3.0 (3.0,3.0,3.0,3.0,3.0)		..at 0.60m to 1.10m bgl numerous roots of live appearance encountered and sampled. ..at 0.60m bgl UNDERSIDE OF HOUSE FOUNDATION. ..at 0.70m bgl base of hand excavated trial pit.
	R D	1.10 - 1.60 1.10 - 1.60	PEN	1.10	HP=3.0 (3.0,3.0,3.0,3.0,3.0)	1.0	..at 1.10m to 1.60m bgl numerous roots of live appearance encountered and sampled.
	D R	1.60 - 2.10 1.60 - 2.10	PEN	1.60	HP=3.0 (3.0,3.0,3.0,3.0,3.0)	1.5	..at 1.60m bgl with rare fine to medium gravels. ..at 1.60m to 2.10m bgl numerous roots of live appearance encountered and sampled.
	D	2.10 - 2.60	PEN	2.10	HP=3.5 (3.5,3.5,3.5,3.5,3.5)	2.0	..at 2.10m to 3.10m bgl no roots encountered. Extensive inspection of soil samples encountered no roots.
	D	2.60 - 3.10	PEN	2.60	HP=3.5 (3.5,3.5,3.5,3.5,3.5)	2.5	..at 2.60m bgl becoming veined black.
	R D	3.10 - 3.60 3.10 - 3.60	PEN	3.10	HP=3.5 (3.5,3.5,3.5,3.5,3.5)	3.0	..at 3.10m to 3.60m bgl numerous roots of live appearance encountered and sampled.
	D	3.60 - 4.00	PEN	3.60	HP=3.5 (3.5,3.5,3.5,3.5,3.5)	3.5	..at 3.60m to 4.00m bgl no roots encountered. Extensive inspection of soil samples encountered no roots.
						4.0	..at 4.00m bgl target depth achieved.

-- End of borehole at 4.00m --
Trial pit excavated to 0.70m bgl. Borehole completed by hand held percussive window sampler.

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Site Observations

GENERAL:
Site Investigation works (TP/BH 1) undertaken on 6 February 2019 during dry weather (i.e. no rain).

HEALTH AND SAFETY:
Negative signal obtained in Power, Radio and Genny mode on the Cable Avoidance Tool (CAT) (TP/BH1 & 2).

FOUNDATIONS:
Bay foundation was exposed and the underside of foundation (USF) recorded to be 0.70m bgl (TP/BH 1).
House foundation was exposed and the underside of foundation (USF) recorded to be 0.60m bgl (TP/BH 2).

ROOTS:
Roots encountered to 4.00m bgl (TP/BH 1).
Roots encountered to 3.60m bgl (TP/BH 2).

IN SITU TESTING:
Hand Penetrometer (PEN) undertaken at 0.70m bgl (TP/BH 1) within the hand excavated trial pit and thereafter in the window sample borehole at maximum 0.50m intervals.
Hand Penetrometer (PEN) undertaken at 0.60m bgl (TP/BH 2) within the hand excavated trial pit and thereafter in the window sample borehole at maximum 0.50m intervals.

WATER STRIKES:
No water strikes (NWS) encountered (TP/BH 1 & 2).

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.