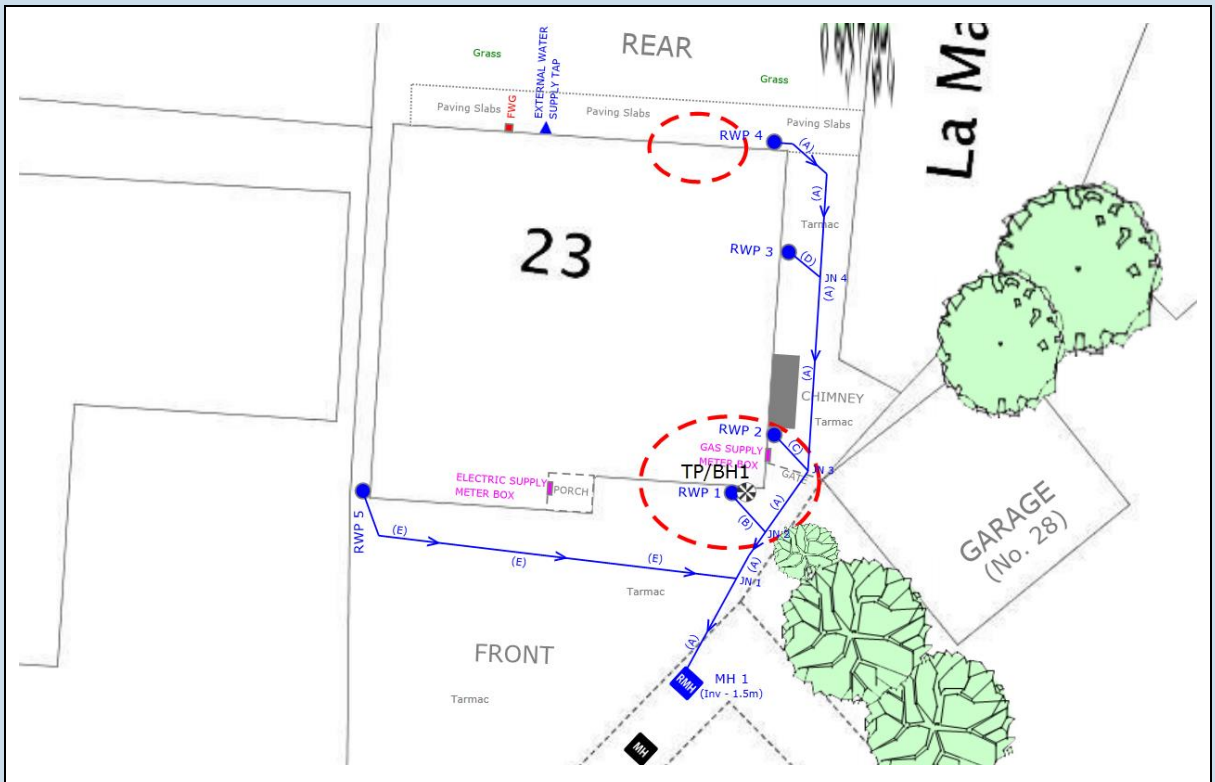
GEOTECHNICAL
for Subsidence Management Services

23 The Drove, Horton Heath, Eastleigh, Hants, SO50 7NX

Client:	Subsidence Management Services
Client Contact:	Peter Moore
Client Ref:	IFS-AVI-SUB-15-0056124
Policy Holder:	Mr & Mrs Kieron Johnson
Report Date:	23 March 2015
Our Ref:	C24053G9972

Site Plan



⊕	Borehole	▶	Foul Water Drain	FMH	Foul Manhole	○	Foul Rodding Point	●	Foul Vent Pipe
⊗	Trial Pit / Borehole	▶	Surface Water Drain	RMH	Rain Water Manhole	○	Surface Rodding Point	●	Rain Water Gully
⊗	Trial Pit	▶	Combined Drain	MH	Combined Manhole				

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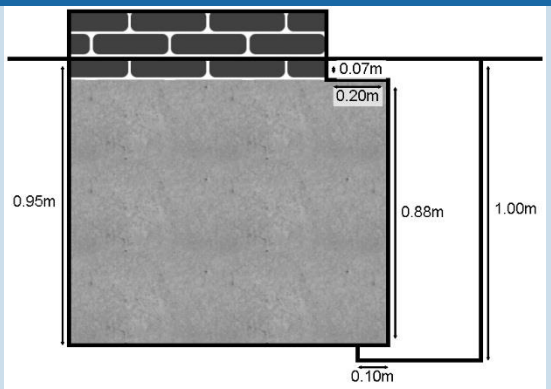
TP/BH1 Foundation Detail and Borehole Log

Foundation Detail

House foundation comprised of brick wall to 70mm bgl, bearing on concrete to 950mm 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 200mm 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	TARMACADAM.
							MADE GROUND: Very stiff orangeish brown slightly gravelly sandy CLAY with rare medium brick. Gravel is medium.
							...at 0.07m to 0.70m bgl occasional roots of live appearance encountered.
						0.5	...at 0.20m bgl orange unidentified type of plastic pipe (110mm dia) encountered running parallel to the wall (0.40m from wall). Confirmed drain - surface/rainwater.
							Very stiff orangeish brown mottled light brown sandy CLAY with rare fine to medium gravel.
							...at 0.70m to 0.95m bgl occasional roots of live appearance encountered.
	R	0.95 - 1.80	MP	0.95	Refusal 42,50 for 40mm		...at 0.95m to 1.80m bgl occasional roots of live appearance encountered and sampled.
	D	0.95 - 1.45	PEN	0.95	HP=5.0 (5.0,5.0,5.0,5.0,5.0)	1.0	...at 0.95m bgl UNDERSIDE OF HOUSE FOUNDATION.
							...at 1.00m bgl base of hand excavated trial pit.
	D	1.45 - 1.95	PEN	1.45	HP=5.0 (5.0,5.0,5.0,5.0,5.0)	1.5	
							...at 1.80m to 4.00m bgl no roots encountered. Extensive inspection of soil samples encountered no roots.
	D	1.95 - 2.20	MP	2.00	Refusal 50 for 60mm	2.0	
	D	2.20 - 2.70					Stiff orangeish brown mottled grey very sandy CLAY with rare fine to medium gravel.
						2.5	
	D	2.70 - 3.20					
			MP	3.00	Refusal 32,35,35,50 for 60mm	3.0	
	D	3.20 - 3.70					
						3.5	
▼	D	3.70 - 4.00					
▽	D	4.00	MP	4.00	Refusal 50 for 60mm	4.0	-- End of borehole at 4.00m --

Trial pit excavated to 1.00m bgl. Borehole completed by hand held percussive window sampler. Roots encountered to 1.80m bgl. Groundwater encountered at 4.00m bgl. Standing water level within the exploratory hole at 3.80m bgl on completion.

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Drainage Summary

GENERAL

A subsidence site investigation CCTV inspection was undertaken of the drainage system to front and right of the house. The following presents a summary of the findings of the inspection.

CCTV INSPECTION SUMMARY

Run A: Insured/Property Owner's (Unidentified Plastics (XP)) Surface Water drainage run from Manhole (MH1) Upstream (15.3m) to Rain Water Down Pipe (RWP4). The CCTV inspection did not encounter structural damage and it was assessed to be serviceable.

Run B: Insured/Property Owner's (Unidentified Plastics (XP)) Surface Water drainage run from Rain Water Down Pipe (RWP1) Downstream (0.7m) to Junction (JN2). The CCTV inspection did not encounter structural damage and it was assessed to be serviceable.

Run C: Insured/Property Owner's (Unidentified Plastics (XP)) Surface Water drainage run from Rain Water Down Pipe (RWP2) Downstream (1.0m) to Junction (JN3). The CCTV inspection did not encounter structural damage and it was assessed to be serviceable.

Run D: Insured/Property Owner's (Unidentified Plastics (XP)) Surface Water drainage run from Rain Water Down Pipe (RWP3) Downstream (0.6m) to Junction (JN4). The CCTV inspection did not encounter structural damage and it was assessed to be serviceable.

Run E: Insured/Property Owner's (Unidentified Plastics (XP)) Surface Water drainage run from Rain Water Down Pipe (RWP5) Downstream (10.3m) to Junction (JN1). The CCTV inspection did not encounter structural damage and it was assessed to be serviceable.

FEATURE INSPECTIONS

A visual inspection was undertaken of MH1. The visual inspection checked for structural, construction and service defects. The visual inspection encountered: No Defects.

Site Observations

GENERAL:
Site Investigation works undertaken on 12 March 2015 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/BH1.

Orange unidentified type of plastic pipe (110mm dia) running parallel to wall (0.40m from wall) at 0.20m bgl in TP/BH1. Confirmed surface/rain water drain.

FOUNDATIONS:
House foundation was exposed and the underside of foundation (USF) recorded to be 0.95m bgl in TP/BH1.

ROOTS:
Roots encountered to 1.80m bgl in TP/BH1.

INSITU TESTING:
Hand Penetrometer (PEN) undertaken at 0.95m bgl within the window sampler and thereafter in the window sampler at maximum 0.50m intervals in TP/BH1.

Mackintosh Probe (MP) undertaken at 0.95m bgl within the hand excavated trial pit and thereafter in the window sample borehole at maximum 1.00m intervals in TP/BH1.

WATER STRIKES:
A water strike (WS) was encountered in the clay at 4.00m bgl, with a standing water level (SWL) recorded at 4.00m bgl after 10 minutes in TP/BH1. Standing water level within the exploratory hole at 3.80m 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.