

Report on Ground Investigation

PROJECT: Glen Farrow Ltd Factory Extension.

CLIENT:

Customer: Glen Farrow Ltd

Date Undertaken: 27.06.24

Introduction

- 1 A factory extension is proposed to the existing Glen Farrow factory building at Glendum Close, Pinchbeck.
- 2 Trial pits were excavated, and in-situ testing for allowable bearing pressures was carried out using a Mackintosh Probe; the results are shown in the test hole logs below.

Test Pit 1

Depth Below GL mm	Description	Test Depth mm	Allowable Bearing Pressure kPa
0	Brown grey silt with gravel mixed in – made-up ground		
350	Brown grey silt		
750	Brown red and grey brown slightly sandy silt		
		800 -1100	145
		1100 -1400	65
		1400 -1700	35
2100	Wetter, predominantly dark grey blue and brown red silt	2000 - 2300	75
		2400-2700	30
		2700-3000	30
3000	Pit terminated		

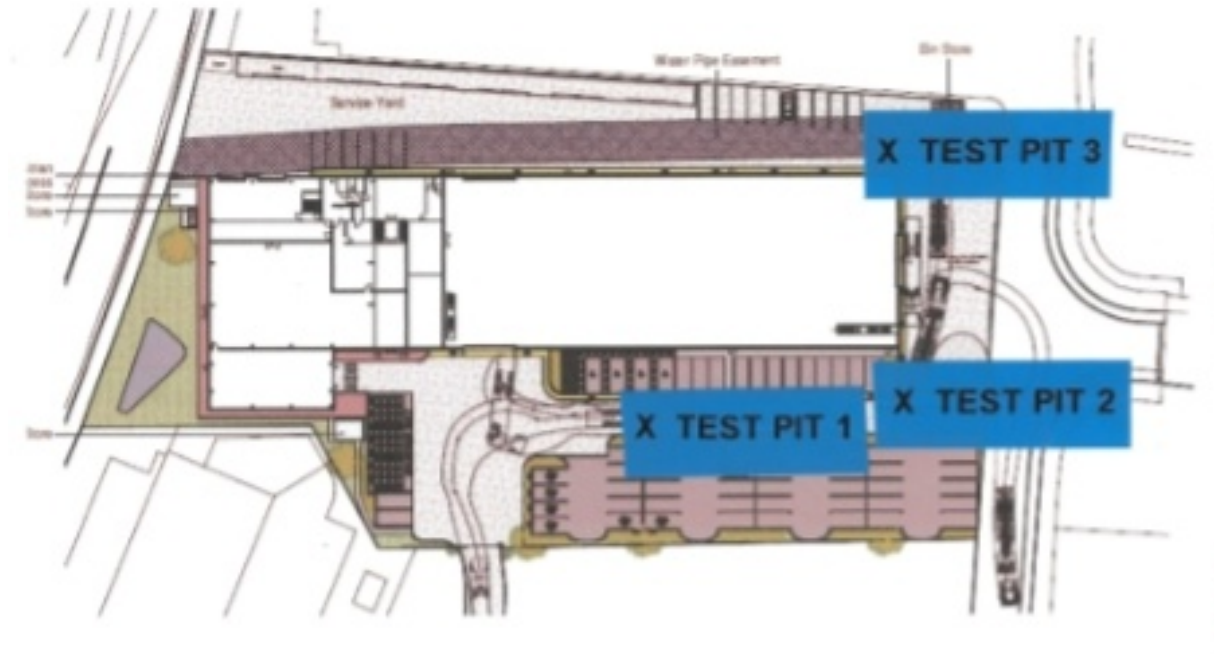
Test Pit 2

Depth Below GL mm	Description	Test Depth mm	Allowable Bearing Pressure kPa
0	Brown grey silt with gravel mixed in – made-up ground		
400	Brown grey silt		
750	Brown grey and brown red sandy silt	1000 - 1300	105
		1500 -1800	45
		1800 - 2100	70
2100	Wetter slightly brown red silt	2100-2400	60
		2400 - 2700	<30
		2700-3000	30

Test Pit 3

Depth Below GL mm	Description	Trest Depth mm	Allowable Bearing Pressure kPa
0	Brown grey silt		
400	Road planings		
475	Brown grey silt		
600	Lighter brown slightly sandy silt		
		900 - 1200	160
		1200 - 1500	70
		1500 - 1800	50
2000	Wetter darker grey blue slightly sandy silt	2000-2300	30
2500	See Note 3 below regarding groundwater	2400-2700	60
		2700-3000	30

Test Hole Location Plan



NOTES

1. Upper soil levels were quite dry. At around 2000 – 2100mm below ground level, the soil became significantly wetter.
2. The sides of the trial pits were very unstable, and were continually collapsing. For this reason, the trial pits were excavated no deeper than 2400mm below ground level, and the Mackintosh probe was driven continuously from this level to 3000mm below ground level.
3. No free water had been observed in pits 1 and 2, but in pit 3 it appeared that there was standing water at 2500mm below ground level.