

# **Land adj. Harewarren Farm Chalky Lane, Dogmersfield**

**Drainage strategy**

for

**North Hants Homes**

**MARCH 2024**

Report Ref: 24002/RW/0001 Rev 0

**Baker Gilbey Associates Limited**

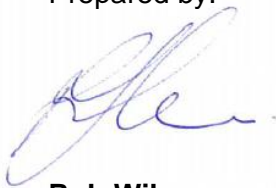
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Document Control

Rev	Date	Purpose/ Status	Comments	Revised By
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## 1.0 INTRODUCTION

1.1.1 Baker Gilbey Associates has been appointed by North Hants Homes to provide a drainage statement to support the redevelopment of existing farm buildings at the site at Harewarren Farm

1.1.2 The site is Located at Chalky Lane Dogmersfield, and the nearest postcode is RG27 8TG



Figure 1 site location plan.  
(Red Line Depicts Development Site, Blue line shows extent of Harewarren Farm)

## 2.0 BACKGROUND INFORMATION

2.1.1 The underlying geology is recorded at LONDON CLAY FORMATION - CLAY, SILT AND SAND, from site observations, the geology in this area is confirmed to be CLAY.

2.1.2 No Superficial deposits are shown.

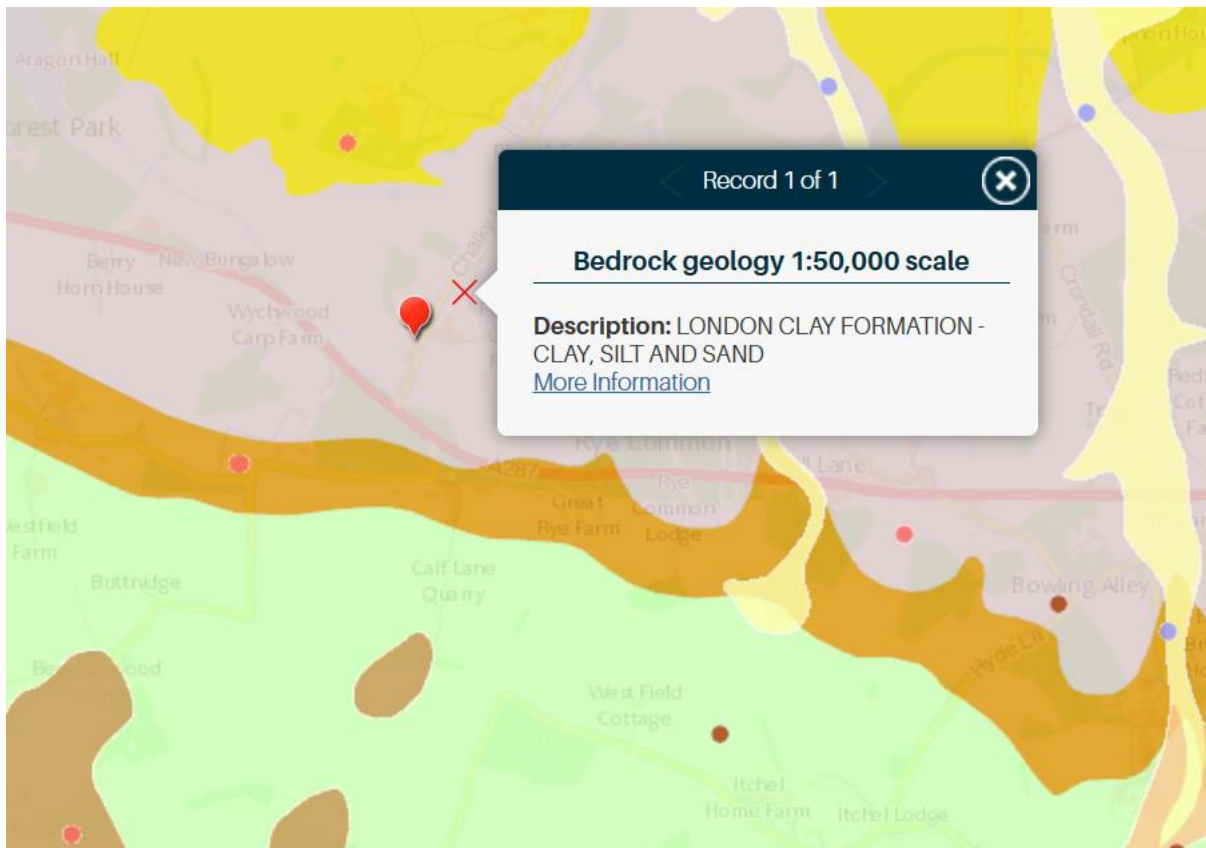


Figure 2 BGS Bedrock Geology

### **3.0 SITE CONDITIONS**

- 3.1.1 The current site comprises of several farm buildings and a densely compacted gravel courtyard which is effectively impermeable.
- 3.1.2 The overall impermeable area has been measured from the topographic survey at 2,052 sq.m.

### **4.0 EXISTING SURFACE WATER DRAINAGE**

- 4.1.1 The existing surface water discharges into the pond to the north of the site, this then overflows into a ditch system which runs Northwards alongside the paddock which is currently part of Harewarren farm.

### **5.0 EXISTING FOUL DRIANAGE**

- 5.1.1 The existing Foul drainage is provided by means of an existing septic tank which also serves the Harewarren Farmhouse and the property known as “the Warren” immediately to the south of Harewarren farm., the treated effluent from the treatment plant discharges into the ditch to the north.

### **6.0 PROPOSED SURFACE WATER DRAINAGE**

- 6.1.1 Given the type of subsoil, infiltration will not be a viable option to discharge the surface water, it is therefore proposed that the roof water will be collected via a piped network discharging into the pond as currently, and the courtyard resurfaced in a permeable gravel with an overflow into the pond. The total area of impermeable surfacing (including the new gravel driveway) has been measured at 2,311 sq.m.
- 6.1.2 Given that there is a small increase in the overall drained area, it is anticipated that additional attenuation storage can be provided within the new permeable sub base.

### **7.0 PROPOSED FOUL DRIANAGE**

- 7.1.1 Given the increased loading on the foul drainage system, it is anticipated that a new packaged waste water treatment plant (WWTP) will be installed at the north east of the site , this plant will be sized the take the flows from the new housing units as well as the two existing residential properties.
- 7.1.2 The treated effluent from the WWTP will discharge into the ditch as per the current situation.

**Appendix 1 : Topographic Survey**



150920 N

150880 N

150840 N

150800 N

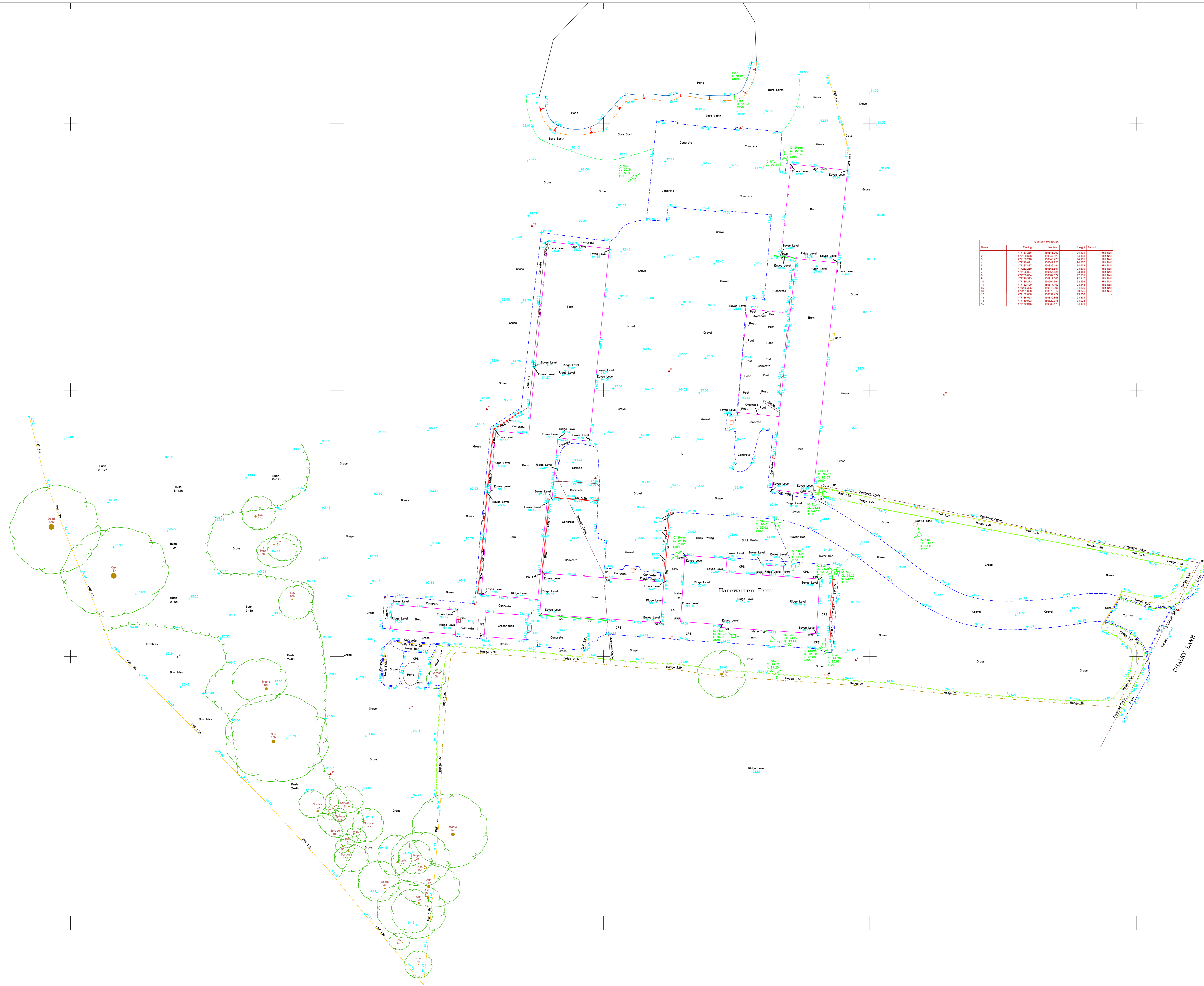
477120 E

477160 E

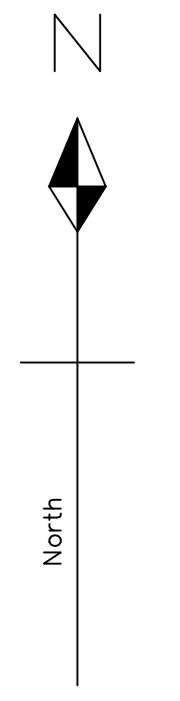
477200 E

477240 E

477280 E



SURVEY STATIONS					
Name	Ending	Northing	Height	Remarks	
1	477197.000	150880.000	94.101	BB Hat	
2	477198.276	150847.820	94.102	BB Hat	
3	477199.510	150847.471	94.101	BB Hat	
4	477200.720	150847.000	94.101	BB Hat	
5	477202.077	150846.246	94.077	BB Hat	
6	477203.360	150845.661	94.072	BB Hat	
7	477198.807	150839.821	94.068	BB Hat	
8	477200.864	150839.872	94.071	BB Hat	
9	477202.861	150839.891	94.111	BB Hat	
10	477198.272	150844.664	94.042	BB Hat	
11	477199.660	150844.660	94.144	BB Hat	
12	477201.000	150844.660	94.075	BB Hat	
13	477199.000	150844.660	94.075	BB Hat	
14	477198.000	150844.660	94.075	BB Hat	
15	477199.000	150844.660	94.075	BB Hat	
16	477199.000	150844.660	94.075	BB Hat	
17	477199.000	150844.660	94.075	BB Hat	
18	477199.000	150844.660	94.075	BB Hat	
19	477199.000	150844.660	94.075	BB Hat	
20	477199.000	150844.660	94.075	BB Hat	



- Abbreviations:
- BW Brick Wall
  - BRW Brick Retaining Wall
  - BP Brick Paving
  - CW Concrete Wall
  - CL Cover Level
  - CPS Concrete Paving Slabs
  - DC Drainage Channel
  - IC Inspection Cover
  - Gu Gully
  - PWF Post & Wire Fence
  - RWP Rain Water Pipe
  - OHC Overhead Cable
  - LP Lamp Post
  - TP Telephone Pole
  - VP Vent Pipe
  - WT Water Tank
  - U Unidentified
  - UTL Unable To Lift
  - Haw Hawthorn

**WARNING:**  
All dimensions on this plan have only been measured to an accuracy commensurate with the original 1:200 plotting scale.

**Note:**  
All tree dimensions are best estimates and are intended for indicative purposes only.  
For safety reasons all underground drainage details are by visual inspection only.  
Drainage must be verified on site before the commencement of any works.  
Survey Grid set to Ordnance Survey National Grid using GPS Smartnet RTK network.  
All values expressed in metres unless otherwise stated.

Benchmark Details:  
All levels related to GPS value.

Client:  
NORTH HANTS HOMES LIMITED

Job Title:  
**HAREWARREN FARM  
CHALKY LANE  
DOGMERSFIELD  
HAMPSHIRE  
RG27 8TG**

Drawing Title:  
**TOPOGRAPHICAL SURVEY**

Scale: 1/200    Size: A0    Date: AUG 2020

Surveyed: RK    Drawn: PSD    Dwg File: Harewarren Top  
Checked: PSD    Job No: 205461

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**Appendix 2 : Proposed Site Plan**

