# Contamination \& Land Quality Assessment 

Executive Summary<br>First Issue

Bartley Wood Business Park, Hook

Project Ref: NSB/12962/LQA
$4^{\text {th }}$ June 2021

Client XLB Properties

Baynham Meikle Partnership Ltd 8 Meadow Road
Edgbaston
Birmingham B17 8BU

8 Meadow Road, Edgbaston, Birmingham, B17 8BU

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### 1.0 Introduction

This executive summary has been prepared on behalf of XLB Properties, in support of the planning application for a proposed industrial unit with associated access road, service yards and car parking located at Bartley Wood Business Park, Hook.

A Site Location Plan is included within the Appendices. The site is centred approximately at National Grid Reference E473300, N453750 and has a development area of 4.138 Hectares.

The existing site is currently developed with three vacant commercial building built on it that are due to be demolished.

A Phase 1 desk top report and initial factual intrusive ground investigation information has been provided by Applied Geology key extracts of which are appended to this report.

### 2.0 Site History

1871-1875
The site and immediate surroundings are seen to be agricultural fields in the north of the site farm buildings. A Stream running north/ south is indicated.

1894-1987
No significant on-site changes observed.

1987-1994
Griffin Way south infrastructure road is now shown to the northern boundary of the site. The site itself is undeveloped.

## 1994 - Onward

The site is shown as fully developed as per its present-day layout.

### 3.0 Topography

The topography of the site is said that there is a fall of approximately 5.7 m from the northeast corner to the Western corner at a gradient of approximately 1 in 75 . There are no significant variations in levels between the southern boundary to the northern site access road, other than an
existing retaining wall along a short section of the eastern boundary supporting the adjacent higher ground at a height of approximately 2 m .

### 4.0 Geo environmental settings and findings

Desktop and intrusive site investigations have been carried out by Applied Geology in 2021.

Thickness: $0.5-2.1 \mathrm{~m}$ (Asphalt and block paving over a subbase layer) This was noted as the above a well compacted granular layer of material across a large majority of the site (possibly a pilling mat).

River Terrace Deposits (noted in pocket over the site) -

London Clay Formation - Thickness: $8.0 \mathrm{~m}-10.0 \mathrm{~m}$. Firm/ stiff brown/grey clay. Clay is slightly silty with rare fine shell fragments.

Permeability testing were undertaken as part of the site investigation work to BRE 365.
As expected, the test confirmed a very low infiltration due to the underlying geology.
The site has been confirmed as not being in a Radon affected as no such protection measures are required.
This site is not indicated to be in an area of historic underground coal or other mining.

### 5.0 Hydrogeology and Groundwater Vulnerability

The nearest surface watercourse is described as an inland river and runs through the site travelling south to north.

There was no water quality data available at the time of writing this report.

There are no surface water abstraction licenses within 500 m of the site.

The London Clay formation is classified as an unproductive stratum. The River Terrace deposits indicated on site are classified as a secondary A Aquifer.

The likely groundwater flow direction is to be to south following the general topography.

### 6.0 Flood Risk and Flood Mapping

According to the current site investigation reports as well as Environment Agency flood map information, the site is located in an area considered to be a very low risk of flooding from Rivers or Watercourses - Floodzone 1.

The site is not at risk of flooding from reservoirs or other artificial sources.

Sea (Tidal) - The site is not located in the vicinity of the coast and is therefore not at risk of sea (tidal) flooding.

The investigation data has confirmed that the site is at risk of pluvial flooding in the form of surface water flooding and groundwater flooding. From review of the mapping data this flooding is focus to the western section of the site adjacent to the existing ditch/ culvert.

Is depth of flooding for the 1 in 30 year storm event is stated as being between $0.3-1.0 \mathrm{~m}$ in this localised area.

Flood maps have been appended to this report.

### 7.0 Site Sensitivity and Soil Chemistry

The new development site appears to be an impact zone for a site of Special Scientific Interest (SSSI).

The area to the south of the southern boundary is designated as a "Dwarf Shrub Heath-Lowland" recognised as "Hook Common and Bartley Heath".

With regard to on-site contamination, visual inspections on site found no evidence of Hydrocarbon contamination.

The British Geological Survey have established the following potential for ground stability hazards on site.

- Shrink/ swell Clay

Low

- Landslides

Low

- Ground Dissolution of Soluble Rocks

Negligible

- Compression Deposits

Very Low

- Running Sand

Very Low

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The Conceptual Site Model has concluded that there is a risk of elevated concentrations of sulphates to be present in the natural London Clay Soil and that this could present a Medium risk to new buried concrete structures.

### 8.0 Recommendations / Conclusions

Additional, unidentified localised areas of contamination may exist at the Site and an appropriate 'hotspot' protocol should be in place for ground workers to act upon should such contamination be identified during the construction process.

Due to site history and previous site uses there might be underground foundations present on site. Slit trenching and further trial holes may be required to investigate the locations where former structures exist.

A phase 2 intrusive investigation is currently being completed on site.
The scope of this work is to include the following:

- Gas / groundwater monitoring
- Asbestos survey of existing buildings
- Intrusive ground investigation including investigation (establish soil geotechnical properties including soakaway, CBR, WAC, etc testing)

Once a further site-specific intrusive geo-environmental / geotechnical investigation is completed the land quality assessment is reviewed and updated as necessary. This may more accurately identify the nature of the existing ground including the composition and geotechnical parameters of the underlying soil that will assist to inform the subsequent detailed design.

## Appendices




Project Bartley Wood Business Park, Hook
Project No.
AG3265-21
Client Patron Hook Ltd

| Start | $11 / 05 / 2021$ | Coordinates | E 473385.50 N 153878.25 |
| :--- | :--- | :--- | :--- |
| End | $11 / 05 / 2021$ | Ground Level | 74.63 m AOD |

Sheet 1 of 1

| End | 11/05/2021 | Total Depth | 10.00m |
| :---: | :---: | :---: | :---: |
| Sample | Depth |  |  |



| Fom | Chisiling | Duraton (mhinm) | ${ }_{\text {Depht Sture }}$ | Roselo | ${ }_{\text {Groundeveressrikes }}^{\text {Remaxs }}$ | Cased | Sealed | $\pm$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Logged: FC |
|  |  |  |  |  |  |  |  | Checked: As |

Project Bartley Wood Business Park, Hook
Project No.
AG3265-21
Client Patron Hook Ltd
Start $11 / 05 / 2021 \quad$ Coordinates E 473385.37 N 153824.95
End 11/05/2021
Ground Level 72.04 m AOD
Sheet
1 of 1
Scale 1:50

Total Depth
10.00 m


| Chiselling |  |  | Groundwater Strikes |  |  |  |  | Drilled: Gap Drilling Services Ltd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To | Duration (hh:mm) | Depth Strike | Rose to | Remarks | Cased | Sealed |  |
|  |  |  |  |  |  |  |  | Logged: FC <br> Checked: AS |

Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

Installation:
Diameter: 150 mm to 10.00 m

Project Bartley Wood Business Park, Hook
Client Patron Hook Ltd

Project No.
AG3265-21
Sheet
1 of 2
Scale 1:50

Total Depth
10.45m


| Chiselling |  |  | Groundwater Strikes |  |  |  |  | Drilled: Gap Drilling Services Ltd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To | Duration (hh:mm) | Depth Strike | Rose to | Remarks | Cased | Sealed |  |
|  |  |  |  |  |  |  |  | Logged: FC <br> Checked: AS |

Project Bartley Wood Business Park, Hook
Project No.
AG3265-21
Client Patron Hook Ltd
Start 05/05/2021
Coordinates E 473373.20 N 153746.63
Sheet
2 of 2

End 05/05/2021
Ground Level $\quad 72.07 \mathrm{~m}$ AOD
Scale 1:50

| $\begin{gathered} \hline \text { Sample } \\ \text { / Test } \\ \text { Type } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Depth } \\ & (\mathrm{m}) \end{aligned}$ | Result | Casing <br> Depth <br> (m) | $\begin{array}{\|c\|} \hline \text { Level } \\ \text { (mAoD) } \end{array}$ | $\begin{gathered} \text { Strata } \\ \text { (therenes) } \\ \left(\begin{array}{c} \text { Shems } \end{array}\right) \\ (m) \end{gathered}$ | Description of Strata | Legend | GW | Install |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | $E_{10.45}$ | $N=31$ | 1.50 | 61.62 | 10.45 | Firm becoming stiff grey silty locally slightly fine sandy CLAY with rare fine shell fragments. <br> (LONDON CLAY FORMATION) |  |  |  |



Project Bartley Wood Business Park, Hook
Project No.
AG3265-21
Client Patron Hook Ltd
Sheet 1 of 2
$\begin{array}{llll}\text { Start } & 04 / 05 / 2021 & \text { Coordinates } & \text { E 473287.33 N } 153789.22 \\ \text { End } & 04 / 05 / 2021 & \text { Ground Level } & 71.27 \mathrm{~m} \mathrm{AOD}\end{array}$
Scale 1:50

| Sample <br> /Test <br> Type | Depth <br> $(\mathrm{m})$ | Result | Casing <br> Depth <br> $(\mathrm{m})$ | Level <br> $(\mathrm{mAoD})$ | Strata <br> (thichesess | Description of Strata | Legend | GW | Install |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |




Project No.
AG3265-21
Client Patron Hook Ltd
Start 04/05/2021
Coordinates E 473287.33 N 153789.22
Ground Level $\quad 71.27 \mathrm{~m}$ AODSheet2 of 2

Scale 1:50

Total Depth
10.45 m


Project Bartley Wood Business Park, Hook
Client Patron Hook Ltd

Project No.
AG3265-21
Sheet 1 of 1
Start 05/05/2021 Coordinates E 473336.31 N 153712.06
Ground Level $\quad 72.10 \mathrm{~m}$ AOD
.10 m AOD Total Depth



|  |  | Onmmmem | Ommem |  | \%amem |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

Installation:
Diameter: 150 mm to 9.50 m

Project Bartley Wood Business Park, Hook
Client Patron Hook Ltd

Project No.
AG3265-21
Sheet
1 of 2
Scale 1:50

Total Depth


| Chiselling |  |  | Groundwater Strikes |  |  |  |  | Drilled: Gap Drilling Services Ltd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To | Duration (hh:mm) | Depth Strike | Rose to | Remarks | Cased | Sealed |  |
|  |  |  |  |  |  |  |  | Logged: FC <br> Checked: AS |

Project No.
AG3265-21
Client Patron Hook Ltd
Start 06/05/2021
Coordinates E 473288.95 N 153710.40
Ground Level 71.02 m AOD
Ground Level $71.02 \mathrm{~m} \mathrm{AOD} \quad$ Total Depth
2 of 2
Sheet 1:50

End 06/05/2021
$E$
$E 10.45$

Project Bartley Wood Business Park, Hook
Project No.
AG3265-21
Client Patron Hook Ltd
Sheet 1 of 2
$\begin{array}{llll}\text { Start } & 10 / 05 / 2021 & \text { Coordinates } & \text { E 473208.20 N } 153789.01 \\ \text { End } & 10 / 05 / 2021 & \text { Ground Level } & 69.32 \mathrm{~m} \mathrm{AOD}\end{array}$
Scale 1:50

| Sample <br> / Test <br> Type | Depth <br> $(\mathrm{m})$ | Result | Casing <br> Depth <br> $(\mathrm{m})$ | Level <br> $(\mathrm{mAoD})$ | Strata <br> (thickthess) <br> $(\mathrm{m})$ | Description of Strata |
| :---: | :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |

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B

Project No.
AG3265-21

## Client Patron Hook Ltd

Start 10/05/2021
Coordinates
Ground Level 69.32m AOD

Sheet
2 of 2
Scale 1:50

Total Depth
10.45 m


| fm |  | ammeme | bamiso |  | Sememememe | (imm |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Project Bartley Wood Business Park, Hook
Project No.
AG3265-21
Client Patron Hook Ltd

Sheet 1 of 1
Scale 1:50

Total Depth
10.00 m



Project Bartley Wood Business Park, Hook
Client Patron Hook Ltd

Project No.
AG3265-21
Sheet 1 of 2

Scale
Total Depth

1:50
10.50 m


| Chiselling |  |  | Groundwater Strikes |  |  |  |  | Drilled: Gap Drilling Services Ltd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From | To | Duration (hh:mm) | Depth Strike | Rose to | Remarks | Cased | Sealed |  |
|  |  |  |  |  |  |  |  | Logged: FC <br> Checked: AS |

Project Bartley Wood Business Park, Hook
Project No.
AG3265-21
Client Patron Hook Ltd
Start 07/05/2021
Coordinates
Ground Level $\quad 70.03 \mathrm{~m}$ AOD
Total Depth
Sheet 2 of 2

End 07/05/2021

| Level <br> mAoD) | Strata <br> Depth <br> (thickness) <br> $(\mathrm{m})$ | Description of Strata |
| :--- | :---: | :---: |
|  |  | Firm becoming stiff grey silty CLAY with rare she |

Firm becoming stiff grey silty CLAY with rare shell fragments. (LONDON CLAY FORMATION)
D
$=10.45$
Client Patron Hook Ltd

| Start | $06 / 05 / 2021$ | Coordinates | E 473357.17 N 153886.92 | Scale | $1: 25$ |
| :--- | :--- | :--- | :--- | :--- | ---: |
| End | $06 / 05 / 2021$ | Ground Level | 75.35 m AOD | Total Depth | 5.45 m |



## Installation:

Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sased |
| :--- | :---: | :---: | :---: | :---: | :--- |
| Depth Strike | Rose to | Remarks | Sealed | Drilled: DH |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  | Cogged: FC |
|  |  |  |  |  | Checked: AS |

Project Bartley Wood Business Park, Hook

| Client | Patron Hook Ltd |  | Sheet | 2 of 2 |
| :--- | :--- | :--- | :--- | ---: |
| Start | $06 / 05 / 2021$ | Coordinates | E 473357.17 N 153886.92 | Scale |
| End | $06 / 05 / 2021$ | Ground Level | 75.35 m AOD | Total Depth |



Installation:
Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sealed |
| :--- | :---: | :---: | :---: | :---: | :--- |
| Depth Strike | Rose to | Remarks | Cased | DH |  |
|  |  |  |  |  | Logged: FC |
|  |  |  |  |  |  |
|  |  |  |  |  | Checked: AS |

Project Bartley Wood Business Park, Hook
Project No.
AG3265-21

## Client Patron Hook Ltd

Start 06/05/2021 Coordinates E 473332.69 N 153804.96
Sheet
1 of 1

End 06/05/2021
Ground Level 72.15 m AOD
Scale 1:25


Installation:
Remarks: Hand dug service inspection pit excavated to 0.50 m bgl. Pit terminated at 0.50 m bgl due to refusal on possible concrete obstruction. Pit backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sealed |
| :--- | :---: | :---: | :---: | :---: | :--- |
|  | Drilled: DH |  |  |  |  |
| Depth Strike | Rose to | Remarks | Cased |  |  |
|  |  |  |  |  | Logged: FC |
|  |  |  |  |  | Checked: AS |

Client Patron Hook Ltd

| Start | $06 / 05 / 2021$ | Coordinates | E 473345.80 N 153790.35 |
| :--- | :--- | :--- | :--- |
| End | $06 / 05 / 2021$ | Ground Level | 72.00 m AOD |

Sheet 1 of 1

Scale
Total Depth1:25


Installation:
Remarks: Hand dug service inspection pit excavated to 0.65 m bgl. Pit terminated at 0.65 m bgl due to refusal on concrete obstruction. Pit backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sased |
| :--- | :---: | :---: | :---: | :---: | :--- |
| Depth Strike | Rose to | Remarks | Sealed | Drilled: DH |  |
|  |  |  |  |  | Logged: FC |
|  |  |  |  |  | Checked: AS |

Project Bartley Wood Business Park, Hook
Client Patron Hook Ltd
$\begin{array}{llll}\text { Start } & 06 / 05 / 2021 & \text { Coordinates } & \text { E 473290.30 N } 153768.99 \\ \text { End } & 06 / 05 / 2021 & \text { Ground Level } & 71.22 \mathrm{~m} \mathrm{AOD}\end{array}$

Project No.
AG3265-21
Sheet 1 of 2
Scale 1:25

Total Depth 5.45 m


## Installation:

Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

|  | Gose to | Remarks | Cased | Sealed | Drilled: DH |
| :--- | :---: | :---: | :---: | :---: | :--- |
| Depth Strike | Roundwater Strikes |  |  |  |  |
|  |  |  |  |  | Logged: FC |
|  |  |  |  |  |  |
|  |  |  |  |  | Checked: AS |

Project Bartley Wood Business Park, Hook

| Client | Patron Hook Ltd |  | Sheet | 2 of 2 |
| :--- | :--- | :--- | :--- | ---: |
| Start | $06 / 05 / 2021$ | Coordinates | E $473290.30 \mathrm{~N} \mathrm{153768.99}$ | Scale |
| End | $06 / 05 / 2021$ | Ground Level | 71.22 m AOD | Total Depth |



Installation:
Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sealed |
| :--- | :---: | :---: | :---: | :---: | :--- |
| Depth Strike | Rose to | Remarks | Cased | DH |  |
|  |  |  |  |  | Logged: FC |
|  |  |  |  |  |  |
|  |  |  |  |  | Checked: AS |

Project Bartley Wood Business Park, Hook
Client Patron Hook Ltd
Start 06/05/2021 Coordinates E 473179.14 N 153757.80

End 06/05/2021
Ground Level
69.86 m AOD


## Installation:

Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sealed |
| :---: | :---: | :---: | :---: | :---: | :--- |
| Drilled: DH |  |  |  |  |  |
| Depth Strike | Rose to | Remarks | Cased |  |  |
| 0.90 | 0.90 | Slight seepage |  |  | Logged: FC |
|  |  |  |  |  |  |
|  |  |  |  |  | Checked: AS |

Project Bartley Wood Business Park, Hook

| Client | Patron Hook Ltd |  | Sheet | 2 of 2 |
| :--- | :--- | :--- | :--- | ---: |
| Start | $06 / 05 / 2021$ | Coordinates | E $473179.14 \mathrm{~N} \mathrm{153757.80}$ | Scale |
| End | $06 / 05 / 2021$ | Ground Level | 69.86 m AOD | Total Depth |



Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sealed |
| :---: | :---: | :---: | :---: | :---: | :--- |
| Drilled: DH |  |  |  |  |  |
| Depth Strike | Rose to | Remarks | Cased |  |  |
| 0.90 | 0.90 | Slight seepage |  |  | Logged: FC |
|  |  |  |  |  |  |
|  |  |  |  |  | Checked: AS |

Project Bartley Wood Business Park, Hook
Client Patron Hook Ltd
Start $\quad 06 / 05 / 2021 \quad$ Coordinates E 473089.80 N 153704.07
End 06/05/2021
Ground Level $\quad 70.76 \mathrm{~m}$ AOD
Total Depth

| Sample <br> /Test <br> Type | Depth <br> $(\mathrm{m})$ | Result | Dia. <br> Rec. | Level <br> (mAoD $)$ | Death <br> (thichess $)$ <br> $(m)$ | Description of Strata | Legend | GW | Install |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Project Bartley Wood Business Park, Hook

| Client | Patron Hook Ltd |  | Sheet | 2 of 2 |
| :--- | :--- | :--- | :--- | ---: |
| Start | $06 / 05 / 2021$ | Coordinates | E 473089.80 N 153704.07 | Scale |
| End | $06 / 05 / 2021$ | Ground Level | 70.76 m AOD | Total Depth |



Installation:
Remarks: Hand dug service inspection pit excavated to 1.20 m bgl. Borehole backfilled with arisings on completion.

| Groundwater Strikes |  |  |  |  | Sealed |
| :--- | :---: | :---: | :---: | :---: | :--- |
| Depth Strike | Rose to | Remarks | Cased | DH |  |
|  |  |  |  |  | Logged: FC |
|  |  |  |  |  |  |
|  |  |  |  |  | Checked: AS |



Method: Backhoe excavator

| Length: | 1.30 m |
| :--- | :--- |
| Width: | 0.50 m |
| Logged: | FC |
| Checked: | AS |


| Project | Bartley Wood Business Park, Hook | Project No. | AG3265-21 |
| :--- | :--- | :--- | ---: |
| Client | Patron Hook Ltd | Sheet | 1 of 1 |
| Date | $13 / 05 / 2021$ |  | Scale |
| Ground Level | 76.07 m AOD | Coordinates | E $473416.26 \mathrm{~N} \mathrm{153901.06}$ |



Method: Backhoe excavator
Groundwater: Groundwater not encountered.
Stability: Stable.
Remarks: Trial pit backfilled with arisings on completion.

Length:
Width: $\quad 0.50 \mathrm{~m}$
Logged: FC
Checked: AS

| Project | Bartley Wood Business Park, Hook | Project No. | AG3265-21 |
| :--- | :--- | :--- | ---: |
| Client | Patron Hook Ltd | Sheet | 1 of 1 |
| Date | $14 / 05 / 2021$ |  | Scale |
| Ground Level | 73.05 m AOD | Coordinates | E $473403.74 \mathrm{~N} \mathrm{153848.95}$ |



Method: Backhoe excavator

| Length: | 1.70 m |
| :--- | :--- |
| Width: | 0.50 m |
| Logged: | FC |
| Checked: | AS |


| Project | Bartley Wood Business Park, Hook | Project No. | AG3265-21 |  |
| :--- | :--- | :--- | :--- | ---: |
| Client | Patron Hook Ltd | Sheet | 1 of 1 |  |
| Date | $10 / 05 / 2021$ |  | Scale | $1: 25$ |
| Ground Level | 74.00 m AOD | Coordinates | E $473349.11 \mathrm{~N} \mathrm{153855.02}$ | Total Depth |



Method: Backhoe excavator

| Length: | 1.60 m |
| :--- | :--- |
| Width: | 0.50 m |
| Logged: | FC |
| Checked: | AS |


| Project | Bartley Wood Business Park, Hook | Project No. | AG3265-21 |
| :--- | :--- | :--- | ---: |
| Client | Patron Hook Ltd | Sheet | 1 of 1 |
| Date | $14 / 05 / 2021$ |  | Scale |
| Ground Level | 72.00 m AOD | Coordinates | E $473345.80 \mathrm{~N} \mathrm{153790.35}$ |



Method: Backhoe excavator
Groundwater: Slight seepae at 1.20 m bgl, slight seepage at 3.00 m bgl.
Stability: Stable.
Remarks: Trial pit backfilled with arisings on completion.

Length: 1.70 m
Width: 0.50 m
Logged: FC
Checked: AS
Project

Bartley Wood Business Park, Hook
AG3265-21

| Client | Patron Hook Ltd |  | Sheet | 1 of 1 |
| :--- | :--- | :--- | :--- | ---: |
| Date | $14 / 05 / 2021$ |  | Scale | $1: 25$ |
| Ground Level | 70.60 m AOD | Coordinates | E 473256.14 N 153792.47 | Total Depth |


| $\begin{gathered} \text { Sample } \\ \text { / Test } \\ \text { Type } \\ \hline \end{gathered}$ | Depth <br> (m) | Result | Level <br> (mAoD) |  | ( Ease | Description of Strata | Legend | GW |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $(0.10)$ <br> 0.10 <br> $(0.15)$ <br> 0.25 <br> $10.35)$ <br> 0.60 <br>  <br>  <br>  <br>  | M M-H | Asphalt. <br> (MADE GROUND) <br> Reddish brown and grey slightly sandy GRAVEL. Gravel is fine to medium subangular limestone and occasional asphalt. <br> (MADE GROUND - SUBBASE) <br> Greyish brown and brown slightly sandy slightly silty GRAVEL with occasional cobbles. Gravel is fine to coarse subangular brick, concrete, limestone and flint. Cobbles are subangular tile, concrete and brick. <br> (MADE GROUND - SUBBASE) <br> End of Trial Pit at 0.60 m | $\square$ |  |

Method: Backhoe excavator
Length: 1.40 m
Groundwater: Ingress from pipe.
Stability: Stable.
Remarks: Trial pit terminated at 0.60 m bgl services encountered. Surface water ceramic drainage pipe approximately 100 mm diameter encountered at 0.55 m bgl, fractured - water flowing out steady level at 0.30 m bgl. Repaired using plastic cover and bentonite. Trial pit backfilled with arisings on completion.

Width: $\quad 0.50 \mathrm{~m}$
Logged: FC
Checked: AS

| Project | Bartley Wood Business Park, Hook | Project No. | AG3265-21 |
| :--- | :--- | :--- | :--- |
| Client | Patron Hook Ltd | Sheet | 1 of 1 |
| Date | $10 / 05 / 2021$ |  | Scale |
| Ground Level | 71.04 m AOD | Coordinates | E $473249.07 \mathrm{~N} \mathrm{153699.67}$ |



Method: Backhoe excavator

| Length: | 1.60 m |
| :--- | :--- |
| Width: | 0.50 m |
| Logged: | FC |
| Checked: | AS |


| Project | Bartley Wood Business Park, Hook | Project No. | AG3265-21 |
| :--- | :--- | :--- | ---: |
| Client | Patron Hook Ltd | Sheet | 1 of 1 |
| Date | $10 / 05 / 2021$ |  | Scale |
| Ground Level | 69.82 m AOD | Coordinates | E $473227.64 \mathrm{~N} \mathrm{153803.52}$ |



Method: Backhoe excavator
Length: 1.70 m
Groundwater: Slight seepage at 2.00 m bgl.
Stability: Stable.
Remarks: Soakaway test undertaken within trial pit, see separate results sheet for details. Trial pit backfilled with arisings on completion.

Width: 0.50 m
Logged: FC
Checked: AS

| Project | Bartley Wood Business Park, Hook | Project No. | AG3265-21 |
| :--- | :--- | :--- | ---: |
| Client | Patron Hook Ltd | Sheet | 1 of 1 |
| Date | $14 / 05 / 2021$ |  | Scale |
| Ground Level | 70.58 m AOD | Coordinates | E $473155.79 \mathrm{~N} \mathrm{153751.10}$ |



Method: Backhoe excavator
Groundwater: Groundwater not encountered.
Stability: Stable.
Remarks: Trial pit backfilled with arisings on completion.

Length: 1.60 m
Width: 0.50 m
Logged: FC
Checked: AS

IN SITU SOAKAWAY TEST RESULT

| Trial Pit No. | TP1 |
| :--- | :---: |
| Date | $10 / 05 / 2021$ |
| Operator | FC |
| Test Strata | Clayey Gravel |
| Stability of pit | Stable |
| Backfill used | None |


| Filling | 1 of 1 |
| :---: | :---: |
| Trial Pit Length $(\mathrm{m})$ | 1.30 |
| Trial Pit Width $(\mathrm{m})$ | 0.50 |
| Trial Pit Depth $(\mathrm{m})$ | 1.80 |
| Amount of Backfill placed (m) | 0 |
| Assumed Backfill Void Ratio | N/A |



| Initial Water Level $(\mathrm{m})$ | 0.70 | Total internal surface area of pit $\left(\mathrm{m}^{2}\right)$ | 7.13 |
| :--- | :---: | :--- | :---: |
| Final Water Level $(\mathrm{m})$ | 0.76 | Internal surface area of trial pit within effective <br> depth range $\left(\mathrm{m}^{2}\right)$ | 2.63 |
| Change in Water Level $(\mathrm{m})$ | 0.06 | Volume outflowing between $75 \%$ and $25 \%$ <br> effective depth $\left(\mathrm{m}^{3}\right)$ | 0.36 |
| Effective Depth at $25 \%(\operatorname{tp25})(\mathrm{m})$ | 1.53 | Time at $25 \%(\operatorname{tp25)(\text {minutes})}$ |  |
| Effective Depth at $75 \%(\operatorname{tp75})(\mathrm{m})$ | 0.98 | Time at $75 \%(\operatorname{tp75})$ (minutes) |  |

## Soil Infiltration Rate (m/s)

Notes: 1. Undertaken in general accordance with BRE DG 365 method
2. Based on extrapolated data

NO

| Client: | Patron Hook Ltd |  |
| :---: | :---: | :---: |
| Project: | Bartley Wood Business Park, Hook | APPLIED GEOLOCY |

Project No. AG3265-21

IN SITU SOAKAWAY TEST RESULT

| Trial Pit No. | SA4 | Filling | 1 of 1 |
| :---: | :---: | :---: | :---: |
| Date | 10/05/2021 | Trial Pit Length (m) | 1.60 |
| Operator | FC | Trial Pit Width (m) | 0.50 |
| Test Strata | Gravelly Clay | Trial Pit Depth (m) | 2.40 |
| Stability of pit | Stable | Amount of Backfill placed (m) | 0 |
| Backfill used | None | Assumed Backfill Void Ratio | N/A |



| Initial Water Level (m) | 0.90 | Total internal surface area of pit ( $\mathrm{m}^{2}$ ) | 10.88 |
| :---: | :---: | :---: | :---: |
| Final Water Level (m) | 0.92 | Internal surface area of trial pit within effective depth range ( $\mathrm{m}^{2}$ ) | 3.95 |
| Change in Water Level (m) | 0.02 | Volume outflowing between $75 \%$ and $25 \%$ effective depth ( $\mathrm{m}^{3}$ ) | 0.60 |
| Effective Depth at $25 \%$ (tp25) (m) | 2.03 | Time at 25\% (tp25) (minutes) |  |
| Effective Depth at 75\% (tp75) (m) | 1.28 | Time at 75\% (tp75) (minutes) |  |

## Soil Infiltration Rate (m/s)

Notes: 1. Undertaken in general accordance with BRE DG 365 method
2. Based on extrapolated data NO

* Water level did not drop sufficiently for the calculation to be made

| Client: | Patron Hook Ltd |
| :---: | :--- |
| Project: | Bartley Wood Business Park, Hook |
| Project No. | AG3265-21 |

Project No. AG3265-21

IN SITU SOAKAWAY TEST RESULT

| Trial Pit No. | TP7 | Filling | 1 of 1 |
| :---: | :---: | :---: | :---: |
| Date | 10/05/2021 | Trial Pit Length (m) | 1.60 |
| Operator | FC | Trial Pit Width (m) | 0.50 |
| Test Strata | Gravelly Clay | Trial Pit Depth (m) | 2.00 |
| Stability of pit | Stable | Amount of Backfill placed (m) | 0 |
| Backfill used | None | Assumed Backfill Void Ratio | N/A |



| Initial Water Level (m) | 0.62 | Total internal surface area of pit $\left(\mathrm{m}^{2}\right)$ | 9.20 |
| :--- | :---: | :--- | :---: |
| Final Water Level $(\mathrm{m})$ | 0.70 | Internal surface area of trial pit within effective <br> depth range $\left(\mathrm{m}^{2}\right)$ | 3.70 |
| Change in Water Level (m) | 0.08 | Volume outflowing between $75 \%$ and $25 \%$ <br> effective depth $\left(\mathrm{m}^{3}\right)$ | 0.55 |
| Effective Depth at $25 \%(\mathrm{tp25})(\mathrm{m})$ | 1.66 | Time at $25 \%$ (tp25) (minutes) |  |
| Effective Depth at 75\% (tp75) (m) | 0.97 | Time at 75\% (tp75) (minutes) |  |


| Soil Infiltration Rate (m/s) | ${ }^{*}$ |
| :--- | :--- |

Notes: 1. Undertaken in general accordance with BRE DG 365 method

* Water level did not drop sufficiently for the calculation to be made

2. Based on extrapolated data

| Client: | Patron Hook Ltd |  |
| :---: | :---: | :---: |
| Project: | Bartley Wood Business Park, Hook | APPLEED GEOLOCY |

Project No. AG3265-21

IN SITU SOAKAWAY TEST RESULT

| Trial Pit No. | TP8 | Filling | 1 of 1 |
| :---: | :---: | :---: | :---: |
| Date | 10/05/2021 | Trial Pit Length (m) | 1.70 |
| Operator | FC | Trial Pit Width (m) | 0.50 |
| Test Strata | Sandy Clay | Trial Pit Depth (m) | 2.00 |
| Stability of pit | Stable | Amount of Backfill placed (m) | 0 |
| Backfill used | None | Assumed Backfill Void Ratio | N/A |



| Initial Water Level (m) | 0.56 | Total internal surface area of pit ( $\mathrm{m}^{2}$ ) | 9.65 |
| :---: | :---: | :---: | :---: |
| Final Water Level (m) | 0.70 | Internal surface area of trial pit within effective depth range ( $\mathrm{m}^{2}$ ) | 4.02 |
| Change in Water Level (m) | 0.14 | Volume outflowing between $75 \%$ and $25 \%$ effective depth ( $\mathrm{m}^{3}$ ) | 0.61 |
| Effective Depth at $25 \%$ (tp25) (m) | 1.64 | Time at 25\% (tp25) (minutes) |  |
| Effective Depth at 75\% (tp75) (m) | 0.92 | Time at 75\% (tp75) (minutes) |  |

## Soil Infiltration Rate (m/s)

Notes: 1. Undertaken in general accordance with BRE DG 365 method
2. Based on extrapolated data

NO

| Client: | Patron Hook Ltd | APPLEED GEOLOCM |
| :---: | :---: | :---: |
| Project: | Bartley Wood Business Park, Hook |  |
| Project No. | AG3265-21 |  |



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Hook

| Client Ref: <br> Report Ref: <br> Grid Ref: | EMS_684965_899594 <br> EMS-684965_899594 <br> 473215,153799 |  |
| :--- | :--- | :--- |
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| Map date: | $\mathbf{1 8 9 4 - 1 8 9 7}$ | N |
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Hook

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Hook

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| Map Name: | National Grid | N |
| Map date: | 1981-1982 |  |
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| Grid Ref: | 473215,153799 |


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Hook
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$\begin{array}{ll}\text { Client Ref: } & \text { EMS_684965_899594 } \\ \text { Report Ref: } & \text { EMS-684965-899594 }\end{array}$
Grid Ref: $\quad 473215,153799$

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## 5 Hydrogeology - Superficial aquifer



Site Outline
Search buffers in metres ( m )

| $\square$ | Principal |
| :--- | :--- |
| $\square$ | Secondary A |
| $\square$ | Secondary B |
| $\square$ | Secondary Undifferentiated |
| $\square$ | Unproductive |
| $\square$ | Unknown |

### 5.1 Superficial aquifer

## Records within 500 m

Aquifer status of groundwater held within superficial geology.
Features are displayed on the Hydrogeology map on page 32

| ID | Location | Designation | Description |
| :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | On site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than <br> strategic scale, and in some cases forming an important source of base flow to rivers. <br> These are generally aquifers formerly classified as minor aquifers |

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

## Bedrock aquifer



## Site Outline

Search buffers in metres (m)Principal
Secondary A
Secondary B
Secondary Undifferentiated
Unproductive

### 5.2 Bedrock aquifer

## Records within 500m

Aquifer status of groundwater held within bedrock geology.
Features are displayed on the Bedrock aquifer map on page 33

| ID | Location | Designation | Description |
| :--- | :--- | :--- | :--- |
| $\mathbf{1}$ | On site | Unproductive | These are rock layers or drift deposits with low permeability that have negligible <br> significance for water supply or river base flow |

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

## Groundwater vulnerability



Site Outline
Search buffers in metres (m)
Superficial vulnerability
$\square$ Principal superficial aquifer, high vulnerability
$\square$ Secondary superficial aquifer, high vulnerability
$\square$ Principal superficial aquifer, medium vulnerability
$\square$ Secondary superficial aquifer, medium vulnerability
$\square$ Principal superficial aquifer, low vulnerability
$\square$ Secondary superficial aquifer, low vulnerability
Bedrock vulnerability
$\square$ Principal bedrock aquifer, high vulnerability
$\square$ Secondary bedrock aquifer, high vulnerability
$\square$ Principal bedrock aquifer, medium vulnerability
$\square$ Secondary bedrock aquifer, medium vulnerability
$\square$ Principal bedrock aquifer, low vulnerability
$\square$ Secondary bedrock aquifer, low vulnerability

Other information
$\square$ Unproductive aquifer
Soluble rock risk
$\Delta$ Local information

### 5.3 Groundwater vulnerability

## Records within 50 m

## 3

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on page 34

## 8 Surface water flooding



## Site Outline Search buffers in metres (m) <br> 1 in 1000 return period <br> Depth between $0.1 m-0.3 m$ <br> Depth between $0.3 m-1.0 m$ <br> Depth greater than 1.0 m

1 in 250 return period
Depth between $0.1 m-0.3 m$
Depth between $0.3 m-1.0 m$
Depth greater than 1.0 m

## 1 in 100 return period

Depth between $0.1 m-0.3 m$
Depth between $0.3 m-1.0 m$
Depth greater than 1.0 m

1 in 30 return period
Depth between $0.1 m-0.3 m$
Depth between $0.3 m-1.0 m$
Depth greater than 1.0 m

### 8.1 Surface water flooding

## Highest risk on site

1 in 30 year, $0.3 \mathrm{~m}-1.0 \mathrm{~m}$

## Highest risk within 50 m

1 in 30 year, $0.3 \mathrm{~m}-1.0 \mathrm{~m}$
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on page 47
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

| Return period | Maximum modelled depth |
| :--- | :--- |
| 1 in 1000 year | Greater than 1.0 m |
| 1 in 250 year | Greater than 1.0 m |
| 1 in 100 year | Greater than 1.0 m |
| 1 in 30 year | Between 0.3 m and 1.0 m |

This data is sourced from Ambiental Risk Analytics.

## 9 Groundwater flooding



Site Outline
Search buffers in metres (m)
Site Outline
Search buffers in metres (m)
$\square$ High
$\square$ Moderate - High
$\square$ Noderate
$\square$
$\square$

### 9.1 Groundwater flooding

Highest risk on site

## Highest risk within 50 m

 HighGroundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5 m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on page 49
This data is sourced from Ambiental Risk Analytics.

## SSSI Impact Zones and Units



| - | Site Outline |
| :--- | :--- |
| Search buffers in metres (m) |  |
| $\square$ | SSSI Impact Risk Zones |
| SSSI Units |  |
| $\square$ | Not recorded |
| $\square$ | Favourable |
|  | Unfavourable - Recovering |
| $\square$ | Unfavourable - No change |
| $\square$ | Unfavourable - Declining |
| $\square$ | Partially destroyed |
| $\square$ | Destroyed |

### 10.17 SSSI Impact Risk Zones

## Records on site

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on page 56

## ID Location Type of developments requiring consultation

B On site All applications - All Planning Applications.
This data is sourced from Natural England.

### 10.18 SSSI Units

## Records within 2000 m

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on page 56

| ID: | B |
| :--- | :--- |
| Location: | On site |
| SSSI name: | Hook Common and Bartley Heath |
| Unit name: | Bartley Heath |
| Broad habitat: | Dwarf Shrub Heath - Lowland |
| Condition: | Unfavourable - Recovering |
| Reportable features: |  |


| Feature name | Feature condition | Date of assessment |
| :--- | :--- | :--- |
| Invert. assemblage A1 arboreal canopy | Not Recorded | $01 / 01 / 1900$ |
| Invert. assemblage F1 unshaded early successional mosaic | Not Recorded | $01 / 01 / 1900$ |
| Invert. assemblage F2 grassland \& scrub matrix | Not Recorded | $01 / 01 / 1900$ |
| Lowland mixed deciduous woodland | Not Recorded | $01 / 01 / 1900$ |
| Lowland wet heath | Not Recorded | $01 / 01 / 1900$ |


| ID: | D |
| :--- | :--- |
| Location: | 438m SW |
| SSSI name: | Hook Common and Bartley Heath |
| Unit name: | Hook Common (Bull's Bushes+gaine's Wood) |
| Broad habitat: | Dwarf Shrub Heath - Lowland |
| Condition: | Unfavourable - Recovering |
| Reportable features: |  |


| Feature name | Feature condition | Date of assessment |
| :--- | :--- | :--- |
| Invert. assemblage A1 arboreal canopy | Not Recorded | $01 / 01 / 1900$ |

## 13 Habitat designations



- Site Outline

Search buffers in metres ( m )Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks
Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

### 13.1 Priority Habitat Inventory

## Records within 250 m

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on page 71

| ID | Location | Main Habitat | Other habitats |
| :--- | :--- | :--- | :--- |
| A | On site | Deciduous woodland | Main habitat: DWOOD (INV > 50\%) |
| A | On site | Deciduous woodland | Main habitat: DWOOD (INV > 50\%); Additional: LHEAT (FEP 50\%) |
| 3 | 0 m SW | Deciduous woodland | Main habitat: DWOOD (INV > 50\%); LHEAT (ENSIS L1) |
| 4 | 1 m S | Deciduous woodland | Main habitat: DWOOD (INV > 50\%); LHEAT (ENSIS L1) |

