

## APPENDIX 12 – Legislative Background

## Legislative Background

Environmental liabilities and risks have been evaluated in terms of a source -pathway - target relationship in accordance with the approach set out in:

- The 1995 Environment Act;
- The Contaminated Land (England) Regulations 2000;
- The DETR circular 02/2000 Environmental Protection Act 1990: Part IIA Contaminated Land.

Contaminated land is defined within the legislative framework as land which is in such condition by reason of substances in, on or under the land that:

- 1) Significant harm is being caused or there is a significant possibility of such harm being caused;
- 2) Significant pollution of controlled waters is being or is likely to be caused.

The potential for harm is based on the presence of three factors:

- **Source** - substances that are potential contaminants or pollutants that may cause harm;
- **Pathway** - a potential route by which contaminants can move from the source to the receptor;
- **Receptor** - a receptor that may be harmed, for example the water environment, humans and water.

Where a source, pathway and target are all present a pollutant linkage exists and there is potential for harm to be caused. The presence of a source does not automatically imply that a contamination problem exists, since contamination must be defined in terms of pollutant linkages and unacceptable risk of harm. The nature and importance of both pathways and receptors are site specific and will vary according to the intended end use of the site, its characteristics and its surroundings.

The key principle which supports the SPR approach is 'suitable for use' criteria. This requires remedial action only where contamination is considered to pose unacceptable actual or potential risks to health or the environment and, taking into account the proposed use of the site.

## Relevant Guidance Documents

This report has been prepared in accordance with the list of guidance below however the list is not exhaustive:

- CLR11 – Model Procedures;
- Contamination and Environmental Matters - Their implications for Property Professionals (2nd Edition RICS Nov 2003);
- Brownfields – Managing the development of previously developed land – A client's guide, CIRIA 2002;
- DEFRA and Environment Agency publications CLR7 – 10, supported by the TOX guides and SGV guides, dated March 2002;
- DETR Circular 02/2000, Contaminated Land: Implementation of Part IIA of the Environmental Protection Act 1990;
- Environment Agency technical advice to third parties on Pollution of Controlled Waters for Part IIA of the EPA1990, May 2002;

## Relevant Legislative Documents

The following is a non-exhaustive list of legislative framework documents that has been considered in the production of this report:

- The Environment Act (1995);
- The Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance (2012);
- The Environment Protection Act (1990);
- The Contaminated Land (England) Act (2000);
- Contaminated Land (England) Regulations (2012);
- The Water Resources Act (1991);
- The Pollution Prevention and Control (England and Wales) Regulations (2000);
- The Landfill Regulations (England and Wales) Regulations (2002);
- The Landfill (England and Wales) (Amendment) Regulations (2004);
- Health and Safety at Work Act;

## APPENDIX 13 - Limitations

## Limitations

This contract was completed by Groundtech Consulting on the basis of a defined programme and scope of works and terms and conditions agreed with the client. This report was compiled with due skill and care, taking into consideration the project brief provided, project objectives, agreed scope of works, prevailing site conditions and budget allocation.

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The report was written in 2020, later changes in legislation, statutory requirements and industry best practices have not been considered and this should be allowed for. Ground conditions can also change and should be investigated if there is any significant delay in acting on the findings of this report. The period of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions in this report should not be relied upon in the future without the written confirmation from Groundtech Consulting that it is safe to do so.

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Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions can also be variable due to its heterogeneous properties and as investigation exploratory locations only allow examination of the ground at discrete

locations. The potential exists for ground conditions to be encountered which are different to those considered in this report, particularly between exploratory holes. The extent of the limited area depends on the soil and groundwater conditions, together with other constraints such as the position of any existing structures and underground utilities. Geo-Environmental testing was carried out for a limited number of parameters [as stipulated in the contract] based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.

The groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The groundwater level often has not had time to reach equilibrium and a monitoring period is required. Furthermore, groundwater levels are subject to seasonal variation or changes in local drainage conditions and higher groundwater levels may occur at other times of the year than were recorded during this investigation.

Any site drawings provided in this report are not meant to be an accurate base plan, but are preliminary and used to present the general relative locations of features on, and surrounding, the site.





## **Ground Investigation & Contamination Assessment**

**Former Bowman's Mill, Arlesey Road, Ickleford**

23030-XPL-XX-XX-T-GO-501

April 2024

Revision C01

## Revision History

| Rev. | Date     | Purpose | Prepared    | Checked | Approved    |
|------|----------|---------|-------------|---------|-------------|
| C01  | 12.04.24 | -       | M Henderson | M King  | M Henderson |

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## 1 Executive Summary

| <i>Details</i>           | <i>Summary of Main Text</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Introduction             | This Ground Investigation and Contamination Risk Assessment report has been prepared for Logie Property Co. Ltd. The report relates to two historic oil spill zones associated with (1) a mobile compressor unit in the west and (2) an electricity transformer compound in the east.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Site Description         | The site comprised the former Bowman's mill on Arlessey Road, Ickleford, which at the time of the investigation was vacant and disused.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Geology and hydrogeology | Superficial deposits of Alluvium and Glaciofluvial Deposits are Secondary A aquifers and unconfined at this location. These are overlying the Lowestoft Formation and a bedrock of the Gault Formation, which are both unproductive strata. The site is not within an SPZ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hydrology                | The River Oughton runs through the site and is directly downgradient of a transformer oil spill zone in the east.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Investigation findings   | <p>The investigation found no evidence of soil or groundwater contamination that could have come from either of the two historic oil spills.</p> <p>Although low concentrations of some hydrocarbon fractions were detected in made ground soils at a depth of 0.5m beside the mobile compressor unit (WS101) they were not of a type used in a compressor unit. In addition, concentrations did not exceed residential human health screening levels and were also not present in the deeper alluvial clay layer. PCBs were not detected in soil or groundwater.</p> <p>Hydrocarbons and PCBs were not present above controlled waters screening levels in soil or groundwater samples from the boreholes located downgradient of the transformer compound in Building 10 (WS102-WS105).</p> <p>No remediation of hydrocarbons or PCBs in soil or groundwater beneath the historic spill zones is required.</p> |
| Recommendations          | Contractors should remain vigilant during demolition for evidence of free phase oils, especially when removing foundations or lifting slabs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 2 Introduction

### 2.1 General

This Ground Investigation and Contamination Assessment report has been prepared by Xplor Environmental (Xplor) for Logie Property Co. Ltd.

### 2.2 Scope of Work

The terms of reference for the work were set out in the Xplor proposal 23030-XPL-XX-XX-T-GO-101-C01 dated 07 March 2024.

### 2.3 Purpose

The purpose of the investigation was to establish if two recent oil spills on site have caused contamination of either soil or groundwater. The two areas in question were as follows:

- A mobile compressor unit adjacent to Building 41 in the west, and;
- An electricity transformer compound in Building 10 in the east.

### 2.4 Technical Approach

The report has been prepared using data from a ground investigation, involving sampling from boreholes and chemical laboratory testing.

Competent persons have been involved in the preparation and checking of the report.

### 2.5 Future Development

The assessment is based on future residential land use.

### 3 Site Information and Setting

#### 3.1 Site Location

The site is located on Arlesey Road, Ickleford, Hertfordshire SG5 3UN, approximately 2km north of Hitchin.

The National Grid Reference for the site is 518218, 231295. A location plan is presented as Figure 1.

#### 3.2 Site Description

The 3.7 hectare site is in two parts, comprising the former Bowman's Mill in the north and a strip of managed grassland in the south. These two parts are separated by the channel of the River Oughton, which flows approximately from west to east.

At the time of the investigation the mill site contained numerous vacant buildings and large silos. Between these structures were site roads, parking zones and yards, most of which were surfaced with concrete.

##### 3.2.1 Area 1 (Mobile Compressor Unit)

Area 1 was located adjacent to the southwest corner of Building 41 (a warehouse) and contained a disused mobile compressor unit. Staining of the ground and a residue of oily sand used as an absorbent were visible. The area was surfaced with concrete and a gully drain was approximately 4m away downgradient.

##### 3.2.2 Area 2 (Electricity Transformer Compound)

Area 2 comprised the yard located north and east of Buildings 8-10 and 12-13. Based on information provided by the site manager, Building 10 contained three redundant electricity transformers manufactured between 1969 and 2009 (PCB use in transformers was banned in the UK after 1981). The yard was surfaced with a mix of concrete and macadam and is directly adjacent the river.

#### 3.3 Geology

The British Geological Survey (BGS) online geology viewer indicates the site is underlain by superficial Alluvium (clay, silt, sand and gravel) and Glaciofluvial Deposits (sand and gravel). The Lowestoft Formation (diamicton) may be present beneath these deposits.

The underlying bedrock is of the Gault Formation (mudstone).

#### 3.4 Hydrogeology

The superficial Alluvium and Glaciofluvial Deposits are a Secondary A aquifer. The underlying Lowestoft Formation and bedrock Gault Formation are unproductive strata (non-aquifers).

The site is not within a groundwater Source Protection Zone (SPZ).

#### 3.5 Hydrology

The River Oughton runs through the site, approximately from west to east.

### **3.6 Previous Reports**

#### **3.6.1 WSP Parsons Brinckerhoff**

WSP PB prepared a Phase 1 preliminary risk assessment report in December 2016 (reference 70027704-10670-1) based on desktop data and a site walkover.

Their report confirmed the site had been in use as a mill prior to 1881 and up until recent times.

It identified several sources of potential contamination, mainly from the recent operation of a flour mill, including the storage and use of heating oil, diesel and degreasers, vehicle and mechanical maintenance and electrical sub-stations.

#### **3.6.2 Groundtech Consulting**

Groundtech Consulting carried out an extensive ground investigation across the mill site, mainly north of the river, in December 2019 and January 2020.

The site work comprised 30nr shallow boreholes and 3nr trial pits. Several boreholes were positioned across the two historic spill zones featured in this investigation.

Chemical laboratory testing was performed on soil and groundwater samples. The testing included analysis for petroleum hydrocarbons and polychlorinated biphenyls (PCBs), which are the contaminants of concern in this investigation. The testing, therefore, provides a baseline of conditions that were present prior to the spills.

Groundtech drilled 3nr boreholes close to the mobile compressor unit (WS09, WS10 and WS11) and 3nr boreholes (WS16, WS18 and WS19) in the yard close to the transformers.

WS09, WS10 and WS11 all encountered olfactory evidence of hydrocarbons in soil prior to the mobile compressor unit being placed at the location. The presence of hydrocarbons was confirmed by the test results. PCBs were below limits of detection (LOD) in groundwater, however soil samples were not tested for PCBs.

Olfactory or visual evidence of hydrocarbons were not present in WS16, WS18 and WS19 in the yard adjacent to the transformer compound. Hydrocarbons and PCBs were below limits of detection (LODs) in soil and groundwater samples.

## 4 Ground Investigation

### 4.1 Site Work

Site work was carried out on 20 and 21 March 2024 and was as described in table 4.1.

*Table 4.1 Summary of Exploratory Holes*

| Type                       | Reference      | Depth |
|----------------------------|----------------|-------|
| Dynamic sampling boreholes | WS101 to WS105 | 3.0m  |

The exploratory holes were set out by an Xplor engineer in locations to maximise the available data, whilst operating within the constraints of the site and the investigation rationale.

The engineer's logs of the exploratory holes are presented in Appendix A.

The locations of exploratory holes are presented on Figures 2 and 3.

### 4.2 Investigation Rationale

The investigation targeted the sources of potential contamination as described in table 4.2.

*Table 4.2 Investigation Rationale*

| Hole           | Target                                  | Contaminants of concern |
|----------------|-----------------------------------------|-------------------------|
| WS101          | Downgradient of mobile compressor unit. | Hydrocarbons and PCBs   |
| WS102 to WS105 | Downgradient of transformer compound.   | Hydrocarbons and PCBs   |

### 4.3 Sampling

Soil samples were recovered from the exploratory holes and stored/transported in containers appropriate for the laboratory testing undertaken.

Sample types and depths are recorded on the relevant exploratory hole logs.

Following well development and purging, groundwater samples were obtained on 25 March 2024 from the wells installed in all boreholes using dedicated disposable bailers.

### 4.4 Installations

Permanent monitoring wells were installed in all the boreholes capable of sampling groundwater. Installations typically comprised a 50mm diameter sealed plain casing (0.5-1.0m depth) and, beneath this, a slotted casing and gravel pack to the base of the hole.

### 4.5 Chemical Laboratory Analysis

Table 4.3 lists the chemical laboratory that tests were scheduled on samples recovered from the exploratory holes.

*Table 4.3 Chemical Analysis*

| <i>Test</i>                                                                                                                            | <i>Soil</i> | <i>Water</i> |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|
| TPHCWG aromatic/aliphatic petroleum hydrocarbons, benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert-butyl ether (MTBE) | 10          | 5            |
| Polychlorinated biphenyls (PCBs, 7 congeners)                                                                                          | 10          | 5            |

Chemical analysis was undertaken by a UKAS-accredited laboratory and the certificates of analysis are provided in Appendix B.

## 5 Ground and Groundwater Conditions

### 5.1 General

During the ground investigation, the following strata sequence was encountered in the exploratory holes. The strata generally matched the expected geology.

*Table 5.1 Strata Sequence*

| Stratum                   | Depth, mbgl |                 | Thickness, m |
|---------------------------|-------------|-----------------|--------------|
|                           | Top         | Base            |              |
| Made ground and surfacing | GL          | 0.6 – 1.4       | 0.6 – 1.4    |
| Alluvium                  | 1.0 – 1.4   | 1.9 – 2.84      | 0.5 – 1.84   |
| Glaciofluvial Deposit     | 0.6 – 0.8   | 1.3 – 1.5       | 0.7 – 1.0    |
| Lowestoft Formation       | 1.3 – 2.84  | Base not proved |              |

Features, structures or certain ground conditions may be present between exploratory hole locations, which are different to those encountered during the investigation.

### 5.2 Made Ground and Surfacing

Made ground was present in all boreholes, beneath a surfacing of reinforced concrete (WS101-WS103) or macadam (WS104-WS105).

Beneath surfacing were mixed layers of clay, silt, sand and gravel with cobble-size brick pieces in WS101 and WS103. Fragments of cast iron pipe and wood were in WS103 and WS105, respectively. The broken faces of the pipe were not fresh and, therefore, does not indicate an underground services strike.

### 5.3 Alluvium

Very soft to firm layers of light grey and brown, silty, sandy clay and silty sand were beneath the made ground in WS101 and WS105.

### 5.4 Glaciofluvial Deposit

Underlying the made ground in WS102 to WS104 were layers of sandy gravelly clay, and sand and gravel in varying proportions.

### 5.5 Lowestoft Formation

Underlying the alluvium (in WS101 and WS105) and Glaciofluvial Deposit (in WS102-WS104) was a firm to stiff, light to dark grey and brown, silty, slightly gravelly clay (diamicton). The gravel component was of flint, mudstone and chalk. The base of this stratum was not proved.

### 5.6 Groundwater Conditions

Groundwater was struck in WS101 and WS105 during drilling and achieved levels between 0.8m and 2.46m depth on completion.

During the sampling visit, groundwater was encountered in all monitoring wells at depths between 0.72m and 2.36m.

## 5.7 Evidence of Contamination

Table 5.2 lists the indicators of potential contamination observed during drilling and monitoring.

*Table 5.1 Evidence of Contamination*

| Observation | Description                                                          |
|-------------|----------------------------------------------------------------------|
| Made ground | Beneath surfacing in all boreholes.                                  |
| Odours      | Faint hydrocarbon odour in WS101 between 1.0m and 1.5m (in Alluvium) |
|             | Hydrocarbon odour in WS104 at 0.5m (in made ground)                  |

## 6 Assessment of Soil Chemical Data

This section presents a human health generic risk assessment to identify potential sources of soil contamination requiring further evaluation. The assessment involves a comparison of chemical laboratory test results to screening levels that are considered to be appropriate to the site and its future use.

### 6.1 Selection of Assessment Criteria

The soil screening levels for petroleum hydrocarbons used in this assessment were drawn from the Suitable for Use Levels (S4ULs) published in 2015 by Land Quality Management Ltd and the Chartered Institute of Environmental Health. Soil Guideline Values published for dioxin-like PCBs published by the Environment Agency in 2009 were used for assessing PCBs. A full list of soil screening levels used is presented in Appendix C.

The future development will be residential with private gardens and for the purpose of this assessment the land use scenario is residential with homegrown produce (RwHP).

Screening levels were selected based on a soil organic matter (SOM) content of 1%.

### 6.2 Generic Screening for Human Health

All measured concentrations of petroleum hydrocarbons and PCBs were below the screening levels and, therefore, further assessment in relation to human health risks from these contaminants is not required.

## 7 Assessment of Groundwater Chemical Data

This section presents a generic assessment to identify potential sources of contamination that could impact on controlled waters (groundwater and surface water).

### 7.1 Selection of Assessment Criteria

Potential water-based receptors have been identified as follows:

- Groundwater: the most sensitive aquifers beneath the site are the superficial Alluvium and Glaciofluvial Deposit, a Secondary A aquifer. The aquifers are unconfined at this location.
- Surface water: the River Oughton runs through the site.

Potential impacts to surface water quality were assessed through a comparison of analysis results with the Environmental Quality Standard (EQS) published in the Water Framework Directive (WFD) (Standards and Classification) Directions (England and Wales) 2015.

For petroleum hydrocarbons, the World Health Organisation, Guidelines for drinking-water quality (WHO, 2017) have been used for assessing impacts on both groundwater and surface water.

A full list of controlled water screening levels used is included in Appendix D.

### 7.2 Potential Risk to Groundwater

Contaminant concentrations in groundwater samples were below WHO drinking water criteria.

### 7.3 Potential Risk to Surface Water

Contaminant concentrations in groundwater samples were below WHO drinking water criteria.

### 7.4 Controlled Waters Assessment Summary

Following screening of the groundwater test results, no contaminant concentrations exceeded WHO drinking water criteria appropriate for the assessment of both groundwater and surface water quality at the site. Therefore, contamination likely to affect groundwater or surface water quality was not identified.

## 8 Assessment of Ground Gas and Organic Vapour

This section presents a generic quantitative risk assessment to identify potential sources of organic vapour in the ground that could impact on development.

### 8.1 Vapour Intrusion Assessment – Soil

A generic quantitative risk assessment has been undertaken of the potential for indoor vapour intrusion from volatile organic compounds (VOCs) in soil. A potential VOC is one with 12 or less carbon atoms. In the absence of published criteria, a set of vapour protection standards has been calculated using CLEA software version 1.071 and these are listed in Appendix E.

No volatile contaminant concentrations were above the vapour protection standards for residential land use and therefore further assessment of vapour intrusion from VOCs in soil is not considered to be necessary.

### 8.2 Vapour Intrusion Assessment – Groundwater

A generic quantitative risk assessment has been undertaken of the potential for indoor vapour intrusion from VOCs in groundwater using guidance published by the Society of Brownfield Risk Assessment guidance, Development of generic assessment criteria for assessing vapour risks to human health from volatile contaminants in groundwater (SoBRA, 2017). The SoBRA  $GAC_{gwwap}$  are listed in Appendix E.

None of the measured contaminant concentrations are above  $GAC_{gwwap}$  and therefore further assessment of vapour intrusion from VOCs in groundwater is not considered to be necessary.

### 8.3 Organic Vapour Assessment Summary

The site is not likely to be impacted by organic vapour from either soils or groundwater sources.

## 9 Contaminated Land Risk Assessment and Conceptual Site Model

### 9.1 Introduction

Risk assessment is a process by which the risks posed by identified hazards to specific receptors are estimated. In the context of this study, hazards relate to sources, or potential sources of contamination capable of causing harm (e.g. a contaminant concentration exceeding a screening level). Receptors are the entity which may be at risk of adverse effects from the hazard and include human health, surface waters, groundwater, ecological systems, buildings and services. In order for a hazard to present a risk to a receptor they must be linked by an exposure pathway.

This source-pathway-receptor conceptual site model is considered best practice methodology to evaluate risks arising from potential contamination, according to the LCRM guidance.

### 9.2 Conceptual Site Model

A conceptual site model (CSM) is not presented as no soil or groundwater sources of hydrocarbons and PCB contamination were identified in the preceding screening assessment sections of the report.

### 9.3 Risk Assessment Summary

The risk assessment process is concluded at this point as there are no plausible risks to human health or controlled waters from hydrocarbons or PCBs in soil or groundwater at the two spill zones.

## 10 Remediation and Risk Management

No sources of hydrocarbon and PCB contamination have been identified based on the screening assessments undertaken. Therefore, no remediation or mitigation of hydrocarbons or PCBs are required in the future development.

It should be noted, however, that this report relates only to a study of hydrocarbons and PCBs in soil and groundwater at two historic oil spill zones on the site. The report cannot, therefore, provide guidance on any measures needed across other parts of the site or for other potential contaminants.

## 11 Conclusions and Recommendations

Xplor Environmental has carried out a ground investigation at the former Bowman Mill in Ickleford. The investigation targeted two historic oil spill zones on the site.

The investigation found no evidence of soil or groundwater contamination that could have come from either of two historic oil spills adjacent to a mobile compressor unit in the west and downgradient of a transformer compound in the east.

Low concentrations of petroleum hydrocarbons were detected in made ground soils at a depth of 0.5m in WS101 (beside the mobile compressor unit). However, they did not exceed residential human health screening values and had not penetrated the deeper alluvial clay. Testing indicated the hydrocarbons were mainly middle distillate fractions that would not be present in oil from a compressor unit. PCBs were not detected in any of the soil or groundwater samples tested from this borehole.

Downgradient of the transformer compound, low concentrations of petroleum hydrocarbons were detected in groundwater at a depth of 2.36m in WS103. However, they did not exceed groundwater or surface water screening values. Testing indicated the hydrocarbons were mainly middle distillate fractions that would not be present in transformer oil. PCBs were not detected in any other soil or groundwater samples tested in the boreholes downgradient of the transformer compound.

No remediation is required for a future residential development, or for the protection of controlled waters, from either hydrocarbons or PCBs in soil or groundwater at the historic oil spill zones.

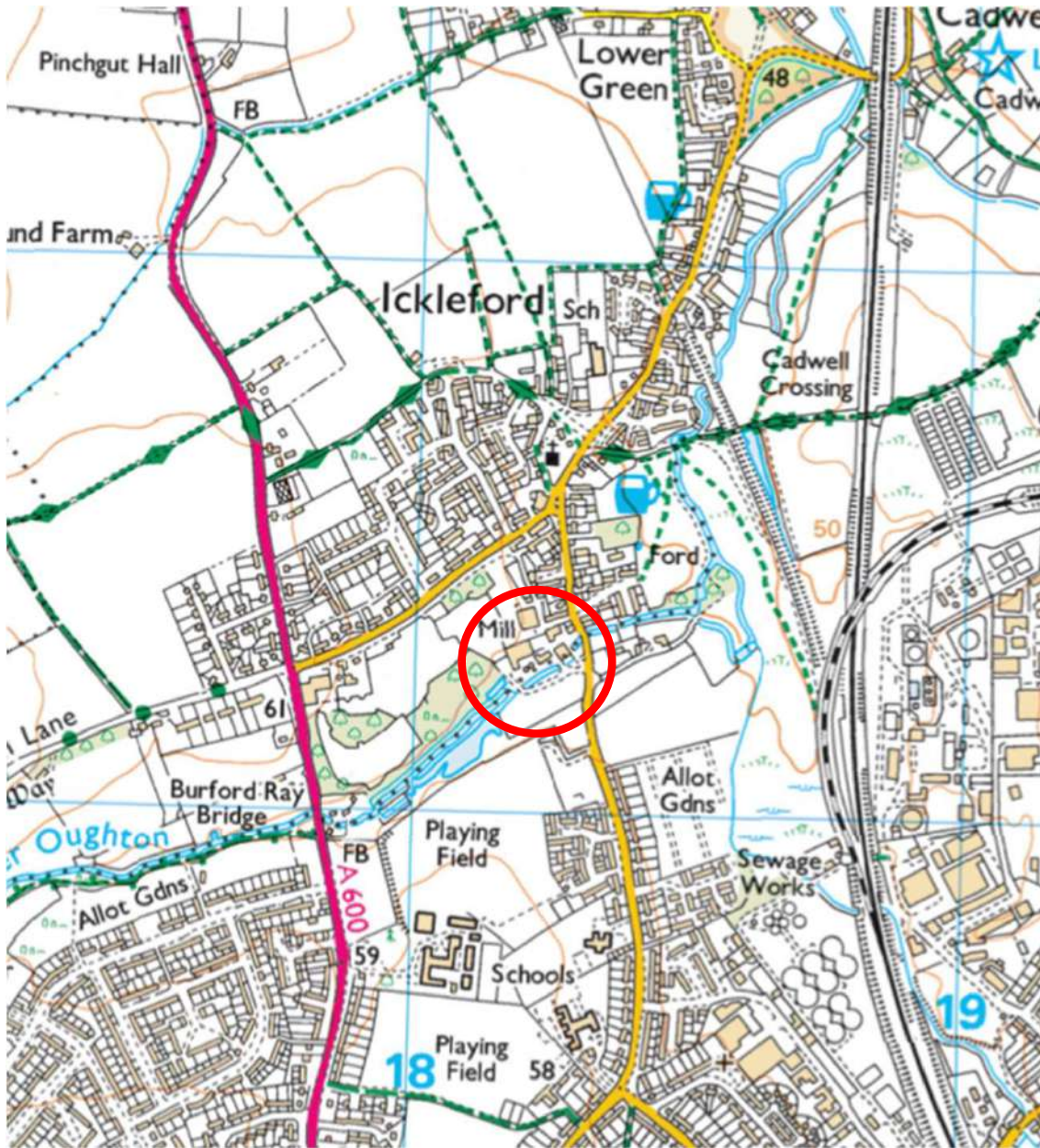
The investigation was targeted and contractors should remain vigilant during the demolition process for evidence of free phase oils, especially when removing foundations or lifting slabs.

## Figures

Figure 1 – Site Location Plan

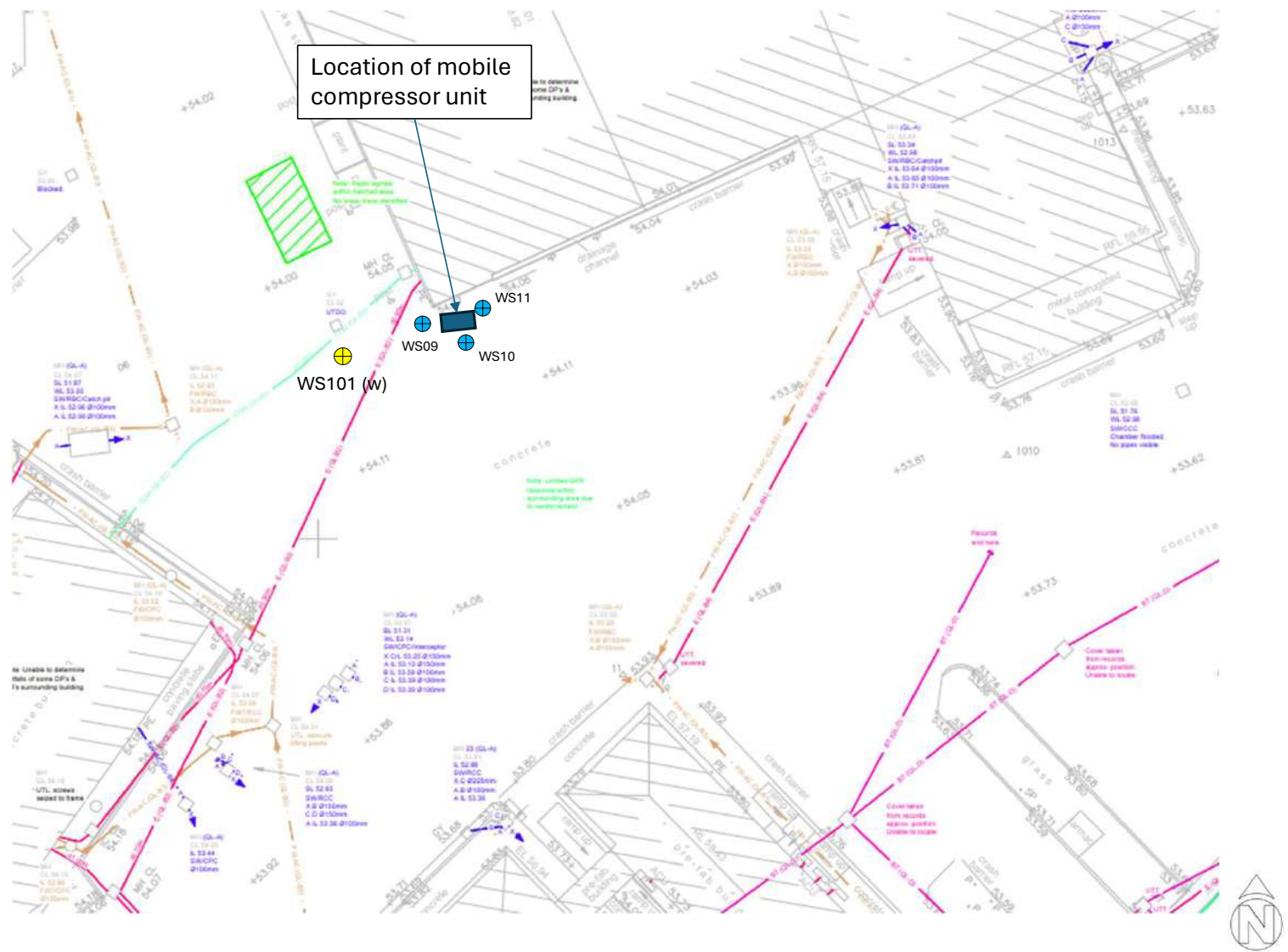
Figure 2 – Exploratory Hole Location Plan (Area 1)

Figure 3 – Exploratory Hole Location Plan (Area 2)



LEGEND

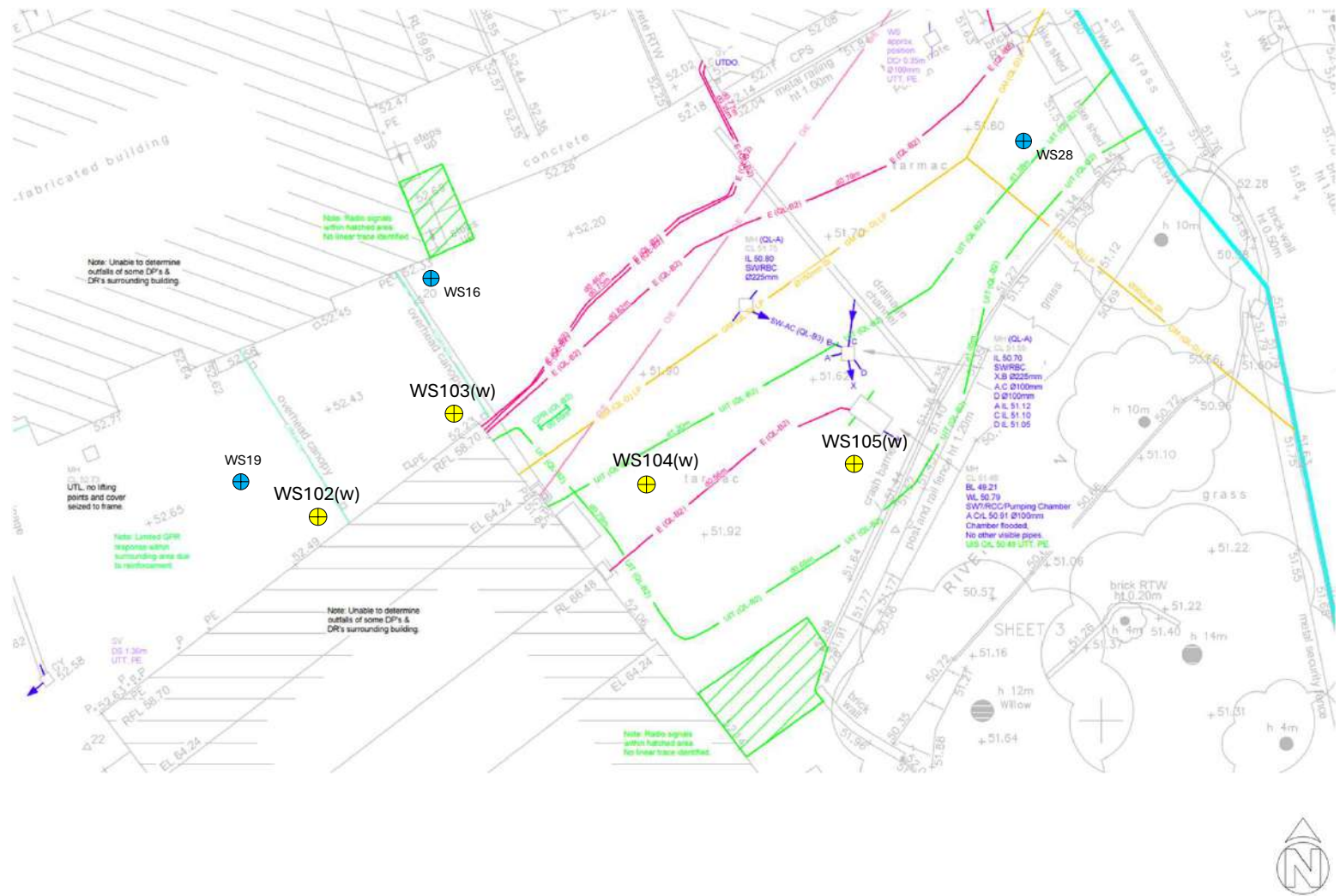
- GROUNDTECH CONSULTING BOREHOLE (2020)
- XPLOR ENVIRONMENTAL BOREHOLE (2024)
- (w) MONITORING WELL



|  |                        |                                |                                         |                 |                |                      |
|--|------------------------|--------------------------------|-----------------------------------------|-----------------|----------------|----------------------|
|  | CLIENT                 | PROJECT                        | TITLE                                   | SCALE: NTS      | JOB NR.: 23030 | DATE: 08.04.24       |
|  | LOGIE PROPERTY CO. LTD | BOWMAN'S FLOUR MILL, ICKLEFORD | EXPLORATORY HOLE LOCATION PLAN (AREA 1) | PREPARED BY: MH | REVISION: C03  | DRAWING NR. FIGURE 2 |

LEGEND

- GROUNDTECH CONSULTING BOREHOLE (2020)
- XPLOR ENVIRONMENTAL BOREHOLE (2024)
- (w) MONITORING WELL



CLIENT  
LOGIE PROPERTY  
CO. LTD

PROJECT  
BOWMAN'S FLOUR MILL,  
ICKLEFORD

TITLE  
EXPLORATORY HOLE  
LOCATION PLAN (AREA 2)

SCALE: NTS  
PREPARED BY:  
MH

JOB NR.: 23030  
REVISION: C03

DATE: 08.04.24  
DRAWING NR.  
FIGURE 3



## Appendix A – Exploratory Hole Logs

|                                              |                                        |                                   |
|----------------------------------------------|----------------------------------------|-----------------------------------|
| <b>PROJECT NUMBER</b> 23030                  | <b>DRILLING DATE</b> 20.03.24-21.03.24 | <b>COORDINATES</b> 518150, 231258 |
| <b>PROJECT NAME</b> Bowman's Mill, Ickleford | <b>TOTAL DEPTH</b> 3.0m                | <b>COORD SYS</b> OS               |
| <b>CLIENT</b> Logie Property Co. Ltd         | <b>DIAMETER</b> 87-77mm                | <b>SURFACE ELEVATION</b> 54.015   |
|                                              | <b>CASING</b> 0-1.0m                   |                                   |
|                                              | <b>SCREEN</b> 1.0-3.0m                 |                                   |

|                                                                       |                                                |
|-----------------------------------------------------------------------|------------------------------------------------|
| <b>COMMENTS</b> Adjacent to mobile compressor unit. Hand pit to 1.2m. | <b>LOGGED BY</b> MH/BW<br><b>CHECKED BY</b> MH |
|-----------------------------------------------------------------------|------------------------------------------------|

| Samples | % Recovery | Depth (m) | Graphic Log | SPT(N) | Description                                                                                                                                                    | Installation           | Observations                       |
|---------|------------|-----------|-------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------|
|         |            |           |             |        | Concrete (reinforced)                                                                                                                                          |                        |                                    |
|         |            |           |             |        | Orange-brown, clayey SAND with some fine to coarse flint gravel and brick cobbles (MADE GROUND)                                                                |                        |                                    |
| 0.5     |            |           |             |        | Grey, sandy gravelly CLAY (MADE GROUND)                                                                                                                        | Concrete/<br>bentonite |                                    |
|         |            | 1         |             |        | Soft to firm, brown and light grey, silty, slightly sandy CLAY with some fine to coarse flint gravel. Occasional black carbonised veins at 1.0-1.5m (ALLUVIUM) |                        | Faint hydrocarbon odour (1.0-1.5m) |
| 1.5     |            |           |             |        | Very soft, light grey and cream, silty, slightly sandy CLAY (ALLUVIUM)                                                                                         |                        |                                    |
|         |            | 2         |             |        | Light grey, very silty, fine SAND (ALLUVIUM)                                                                                                                   | Pea<br>shingle         |                                    |
| 2.5     |            |           |             | 1      |                                                                                                                                                                |                        | Groundwater at 2.46m               |
|         |            | 3         |             |        | Dark brown SILT (ALLUVIUM)                                                                                                                                     |                        |                                    |
|         |            |           |             |        | Dark grey, firm, silty CLAY with fine to medium subrounded flint gravel (LOWESTOFT FORMATION)                                                                  |                        |                                    |
|         |            |           |             |        | End of borehole at 3.0m                                                                                                                                        |                        |                                    |
|         |            | 4         |             |        |                                                                                                                                                                |                        |                                    |

|                                              |                                        |                                   |
|----------------------------------------------|----------------------------------------|-----------------------------------|
| <b>PROJECT NUMBER</b> 23030                  | <b>DRILLING DATE</b> 20.03.24-21.03.24 | <b>COORDINATES</b> 518262, 231308 |
| <b>PROJECT NAME</b> Bowman's Mill, Ickleford | <b>TOTAL DEPTH</b> 3.0m                | <b>COORD SYS</b> OS               |
| <b>CLIENT</b> Logie Property Co. Ltd         | <b>DIAMETER</b> 87-77mm                | <b>SURFACE ELEVATION</b> 52.545   |
|                                              | <b>CASING</b> 0-1.0m                   |                                   |
|                                              | <b>SCREEN</b> 1.0-3.0m                 |                                   |

|                                                                           |                                                |
|---------------------------------------------------------------------------|------------------------------------------------|
| <b>COMMENTS</b> Adjacent to Building 10 transformer bay. Hand pit to 1.2m | <b>LOGGED BY</b> MH/BW<br><b>CHECKED BY</b> MH |
|---------------------------------------------------------------------------|------------------------------------------------|

| Samples | % Recovery | Depth (m) | Graphic Log | SPT(N) | Description                                                                                                                                                        | Installation        | Observations |
|---------|------------|-----------|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
|         |            |           |             |        | Concrete (reinforced)                                                                                                                                              |                     |              |
| 0.5     |            |           |             |        | Dark brown and black, clayey, SAND and GRAVEL (MADE GROUND)                                                                                                        |                     |              |
|         |            |           |             |        | Brown and light grey, clayey SILT with some fine gravel. Occasional black veining (MADE GROUND)                                                                    | Bentonite /concrete |              |
|         |            |           |             |        | Brown clayey, silty SAND and GRAVEL. Gravel is of flint, chalk, brick and mudstone (MADE GROUND GROUND)                                                            |                     |              |
|         |            | 1         |             |        | Brown, sandy, gravelly CLAY. Gravel is of flint (GLACIOFLUVIAL DEPOSIT)                                                                                            |                     |              |
| 1.5     |            |           |             |        | Brown, silty SAND with fine to coarse gravel of flint, mudstone and sandstone (GLACIOFLUVIAL DEPOSIT)                                                              |                     |              |
|         |            |           |             |        | Stiff, grey and light grey mottled, silty CLAY with fine to coarse flint gravel. Occasional medium gravel of mudstone. Very stiff below 2.3m (LOWESTOFT FORMATION) | Pea shingle         |              |
| 2.5     |            |           |             |        |                                                                                                                                                                    |                     |              |
|         |            | 3         |             |        | End of borehole at 3.0m.<br>Groundwater not encountered.                                                                                                           |                     |              |
|         |            |           |             |        |                                                                                                                                                                    |                     |              |
|         |            | 4         |             |        |                                                                                                                                                                    |                     |              |

|                                              |                                        |                                   |
|----------------------------------------------|----------------------------------------|-----------------------------------|
| <b>PROJECT NUMBER</b> 23030                  | <b>DRILLING DATE</b> 20.03.24-21.03.24 | <b>COORDINATES</b> 518268, 231314 |
| <b>PROJECT NAME</b> Bowman's Mill, Ickleford | <b>TOTAL DEPTH</b> 3.0m                | <b>COORD SYS</b> OS               |
| <b>CLIENT</b> Logie Property Co. Ltd         | <b>DIAMETER</b> 87-77mm                | <b>SURFACE ELEVATION</b> 52.303   |
|                                              | <b>CASING</b> 0-1.0m                   |                                   |
|                                              | <b>SCREEN</b> 1.0-3.0m                 |                                   |

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| <b>COMMENTS</b> Hand pit to 1.2m | <b>LOGGED BY</b> MH/BW<br><b>CHECKED BY</b> MH |
|----------------------------------|------------------------------------------------|

| Samples | % Recovery | Depth (m) | Graphic Log | SPT(N) | Description                                                                                                                                  | Installation           | Observations |
|---------|------------|-----------|-------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
|         |            |           |             |        | Concrete (reinforced)                                                                                                                        |                        |              |
|         |            | 0.6       |             |        | Sandy CLAY with fine to coarse gravel and cobbles of brick. Fragment of cast iron pipe (MADE GROUND)                                         |                        |              |
|         |            | 1         |             |        | Orange brown, silty SAND and GRAVEL. Gravel is of fine to coarse flint (GLACIOFLUVIAL DEPOSIT)                                               | Bentonite/<br>concrete |              |
|         |            | 1.5       |             |        | Stiff, brown and light grey mottled, silty CLAY with fine to medium flint, mudstone and chalk (LOWESTOFT FORMATION)                          |                        |              |
|         |            | 2         |             |        |                                                                                                                                              | Pea<br>shingle         |              |
|         |            | 2.5       |             |        | Firm, grey, slightly silty CLAY with fine to coarse chalk. Occasional gravel size pockets of weak, light grey mudstone (LOWESTOFT FORMATION) |                        |              |
|         |            | 3         |             |        | End of borehole at 3.0m.<br>Groundwater not encountered.                                                                                     |                        |              |
|         |            | 4         |             |        |                                                                                                                                              |                        |              |

|                                              |                               |                                   |
|----------------------------------------------|-------------------------------|-----------------------------------|
| <b>PROJECT NUMBER</b> 23030                  | <b>DRILLING DATE</b> 21.03.24 | <b>COORDINATES</b> 518279, 231310 |
| <b>PROJECT NAME</b> Bowman's Mill, Ickleford | <b>TOTAL DEPTH</b> 3.00       | <b>COORD SYS</b> OS               |
| <b>CLIENT</b> Logie Property Co. Ltd         | <b>DIAMETER</b> 87-77mm       | <b>SURFACE ELEVATION</b> 51.905   |
|                                              | <b>CASING</b> 0-1.0m          |                                   |
|                                              | <b>SCREEN</b> 1.0-2.0m        |                                   |

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| <b>COMMENTS</b> Hand pit to 1.2m | <b>LOGGED BY</b> BW<br><b>CHECKED BY</b> MH |
|----------------------------------|---------------------------------------------|

| Samples | % Recovery | Depth (m) | Graphic Log | SPT(N) | Description                                                                                                                                  | Installation       | Observations              |
|---------|------------|-----------|-------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------|
|         |            |           |             |        | Macadam                                                                                                                                      |                    |                           |
|         |            |           |             |        | Dark grey, sandy GRAVEL of limestone aggregate (MADE GROUND)                                                                                 |                    |                           |
| 0.5     |            |           |             |        | Brown, silty, fine to coarse SAND with fine to coarse gravel of flint and siltstone (MADE GROUND)                                            |                    | Hydrocarbon odour at 0.5m |
| 0.7     |            |           |             |        | Light grey, silty CLAY with fine to coarse gravel of mudstone (MADE GROUND)                                                                  | Bentonite/concrete |                           |
|         |            | 1         |             |        | Brown, clayey, fine to coarse SAND with fine to coarse gravel of flint (GLACIOFLUVIAL DEPOSIT)                                               |                    |                           |
| 1.5     |            |           |             |        | Firm, dark, grey, silty CLAY with fine to coarse flint gravel (LOWESTOFT FORMATION)                                                          |                    |                           |
|         |            | 2         |             |        | Stiff, brown, silty CLAY with fine to medium chalk gravel. Occasional light grey, medium gravel of mudstone below 2.8m (LOWESTOFT FORMATION) | Pea shingle        |                           |
| 2.5     |            |           |             |        |                                                                                                                                              |                    |                           |
|         |            | 3         |             |        | End of borehole at 3.0m.<br>Groundwater not encountered.                                                                                     |                    |                           |
|         |            | 4         |             |        |                                                                                                                                              |                    |                           |

|                                              |                               |                                   |
|----------------------------------------------|-------------------------------|-----------------------------------|
| <b>PROJECT NUMBER</b> 23030                  | <b>DRILLING DATE</b> 21.03.24 | <b>COORDINATES</b> 518289, 231311 |
| <b>PROJECT NAME</b> Bowman's Mill, Ickleford | <b>TOTAL DEPTH</b> 3.0m       | <b>COORD SYS</b> OS               |
| <b>CLIENT</b> Logie Property Co. Ltd         | <b>DIAMETER</b> 87-77mm       | <b>SURFACE ELEVATION</b> 51.541   |
|                                              | <b>CASING</b> 0-0.4m          |                                   |
|                                              | <b>SCREEN</b> 0.4-2.0m        |                                   |

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| <b>COMMENTS</b> Hand pit to 1.2m | <b>LOGGED BY</b> BW<br><b>CHECKED BY</b> MH |
|----------------------------------|---------------------------------------------|

| Samples | % Recovery | Depth (m) | Graphic Log | SPT(N) | Description                                                                                                                                   | Installation          | Observations        |
|---------|------------|-----------|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|
|         |            |           |             |        | Macadam                                                                                                                                       |                       |                     |
|         |            |           |             |        | Concrete                                                                                                                                      |                       |                     |
| 0.3     |            |           |             |        | Dark grey, fine to coarse SAND with gravel of concrete (MADE GROUND)                                                                          | Bentonite/<br>concete |                     |
| 0.5     |            |           |             |        | Orange brown, clayey, silty fine to coarse SAND with gravel of fine to medium flint                                                           |                       |                     |
| 0.75    |            |           |             |        | Grey, clayey, fine to coarse SAND with fine to medium gravel of flint and limestone                                                           |                       | Groundwater at 0.8m |
|         |            | 1         |             |        | Soft, dark grey, silty CLAY with fragment of wood and grey, fine to medium sand                                                               | Pea<br>shingle        |                     |
| 1.5     |            |           |             |        | Grey, silty, fine to coarse SAND with fine to coarse gravel of flint and chalk (ALLUVIUM)                                                     |                       |                     |
|         |            | 2         |             |        | Stiff, brown silty CLAY with medium to coarse flint gravel (LOWESTOFT FORMATION)                                                              |                       |                     |
| 2.5     |            |           |             |        | Stiff, grey silty CLAY with flint and chalk gravel. Rare rootlets and occasional fine gravel size pockets of brown silt (LOWESTOFT FORMATION) |                       |                     |
|         |            | 3         |             |        | End of borehole at 3.0m                                                                                                                       |                       |                     |
|         |            | 4         |             |        |                                                                                                                                               |                       |                     |

## **Appendix B – Chemical Laboratory Test Results**

Xplor Environmental  
34 Church Lane  
Girton  
Cambridge  
CB3 0JP

i2 Analytical Ltd.  
7 Woodshots Meadow,  
Croxley Green  
Business Park,  
Watford,  
Herts,  
WD18 8YS

**t:** 01923 225404  
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**e:** reception@i2analytical.com

**e:** markh@xplorenvironmental.co.uk

## **Analytical Report Number : 24-010559**

|                             |                 |                                                        |            |
|-----------------------------|-----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bowmans Mill    | <b>Samples received on:</b>                            | 22/03/2024 |
| <b>Your job number:</b>     | 23030           | <b>Samples instructed on/<br/>Analysis started on:</b> | 22/03/2024 |
| <b>Your order number:</b>   | 23030           | <b>Analysis completed by:</b>                          | 03/04/2024 |
| <b>Report Issue Number:</b> | 1               | <b>Report issued on:</b>                               | 05/04/2024 |
| <b>Samples Analysed:</b>    | 10 soil samples |                                                        |            |

**Signed:**

Dominika Liana  
Junior Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting  
leachates - 2 weeks from reporting  
waters - 2 weeks from reporting  
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-010559  
Project / Site name: Bowmans Mill  
Your Order No: 23030

| Lab Sample Number                       | 152457        | 152458             | 152459                  | 152460        | 152461        |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        | WS101         | WS101              | WS102                   | WS102         | WS103         |
| Sample Number                           | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Depth (m)                               | 0.50          | 1.50               | 0.50                    | 1.50          | 0.60          |
| Date Sampled                            | Deviating     | Deviating          | Deviating               | Deviating     | Deviating     |
| Time Taken                              | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |

|                               |    |      |      |       |       |       |       |       |
|-------------------------------|----|------|------|-------|-------|-------|-------|-------|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 12    | 34    | 15    | 14    | 11    |
| Total mass of sample received | kg | 0.1  | NONE | 0.3   | 0.3   | 0.2   | 0.3   | 0.2   |

#### Petroleum Hydrocarbons

|                                             |       |      |        |         |         |         |         |         |
|---------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aliphatic >C5 - C6 HS_ID_AL        | mg/kg | 0.02 | NONE   | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.020 |
| TPHCWG - Aliphatic >C6 - C8 HS_ID_AL        | mg/kg | 0.02 | NONE   | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.020 |
| TPHCWG - Aliphatic >C8 - C10 HS_ID_AL       | mg/kg | 0.05 | NONE   | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| TPHCWG - Aliphatic >C10 - C12 EH_CU_ID_AL   | mg/kg | 1    | MCERTS | 8.7     | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPHCWG - Aliphatic >C12 - C16 EH_CU_ID_AL   | mg/kg | 2    | MCERTS | 220     | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| TPHCWG - Aliphatic >C16 - C21 EH_CU_ID_AL   | mg/kg | 8    | MCERTS | 320     | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPHCWG - Aliphatic >C21 - C35 EH_CU_ID_AL   | mg/kg | 8    | MCERTS | 76      | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_ID_AL | mg/kg | 10   | NONE   | 630     | < 10    | < 10    | < 10    | < 10    |

|                                              |       |      |        |         |         |         |         |         |
|----------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR        | mg/kg | 0.01 | NONE   | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR        | mg/kg | 0.01 | NONE   | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR       | mg/kg | 0.05 | NONE   | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR   | mg/kg | 1    | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR   | mg/kg | 2    | MCERTS | 65      | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR   | mg/kg | 10   | MCERTS | 120     | < 10    | < 10    | < 10    | < 10    |
| TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR   | mg/kg | 10   | MCERTS | 29      | < 10    | < 10    | < 10    | < 10    |
| TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR | mg/kg | 10   | NONE   | 220     | < 10    | < 10    | < 10    | < 10    |

#### VOCs

|                                    |       |   |        |       |       |       |       |       |
|------------------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Benzene                            | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene                            | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene                       | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| o-Xylene                           | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

#### PCBs by GC-MS

|                  |       |       |        |         |         |         |         |         |
|------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |

|            |       |       |        |         |         |         |         |         |
|------------|-------|-------|--------|---------|---------|---------|---------|---------|
| Total PCBs | mg/kg | 0.007 | MCERTS | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 |
|------------|-------|-------|--------|---------|---------|---------|---------|---------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-010559  
Project / Site name: Bowmans Mill  
Your Order No: 23030

| Lab Sample Number                       | 152462        | 152463             | 152464                  | 152465        | 152466        |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        | WS103         | WS104              | WS104                   | WS105         | WS105         |
| Sample Number                           | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Depth (m)                               | 1.50          | 0.70               | 1.50                    | 0.50          | 1.50          |
| Date Sampled                            | Deviating     | Deviating          | Deviating               | Deviating     | Deviating     |
| Time Taken                              | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |

|                               |    |      |      |       |      |       |      |     |
|-------------------------------|----|------|------|-------|------|-------|------|-----|
| Stone Content                 | %  | 0.1  | NONE | < 0.1 | 27.4 | < 0.1 | 40.2 | 40  |
| Moisture Content              | %  | 0.01 | NONE | 13    | 8.8  | 16    | 8.7  | 13  |
| Total mass of sample received | kg | 0.1  | NONE | 0.3   | 0.2  | 0.3   | 0.2  | 0.3 |

#### Petroleum Hydrocarbons

|                                             |       |      |        |         |         |         |         |         |
|---------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aliphatic >C5 - C6 HS_ID_AL        | mg/kg | 0.02 | NONE   | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.020 |
| TPHCWG - Aliphatic >C6 - C8 HS_ID_AL        | mg/kg | 0.02 | NONE   | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.020 |
| TPHCWG - Aliphatic >C8 - C10 HS_ID_AL       | mg/kg | 0.05 | NONE   | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| TPHCWG - Aliphatic >C10 - C12 EH_CU_ID_AL   | mg/kg | 1    | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPHCWG - Aliphatic >C12 - C16 EH_CU_ID_AL   | mg/kg | 2    | MCERTS | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| TPHCWG - Aliphatic >C16 - C21 EH_CU_ID_AL   | mg/kg | 8    | MCERTS | < 8.0   | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPHCWG - Aliphatic >C21 - C35 EH_CU_ID_AL   | mg/kg | 8    | MCERTS | < 8.0   | < 8.0   | < 8.0   | < 8.0   | < 8.0   |
| TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_ID_AL | mg/kg | 10   | NONE   | < 10    | < 10    | < 10    | < 10    | < 10    |

|                                              |       |      |        |         |         |         |         |         |
|----------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aromatic >EC5 - EC7 HS_ID_AR        | mg/kg | 0.01 | NONE   | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC7 - EC8 HS_ID_AR        | mg/kg | 0.01 | NONE   | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC8 - EC10 HS_ID_AR       | mg/kg | 0.05 | NONE   | < 0.050 | < 0.050 | < 0.050 | < 0.050 | < 0.050 |
| TPHCWG - Aromatic >EC10 - EC12 EH_CU_ID_AR   | mg/kg | 1    | MCERTS | < 1.0   | < 1.0   | < 1.0   | < 1.0   | < 1.0   |
| TPHCWG - Aromatic >EC12 - EC16 EH_CU_ID_AR   | mg/kg | 2    | MCERTS | < 2.0   | < 2.0   | < 2.0   | < 2.0   | < 2.0   |
| TPHCWG - Aromatic >EC16 - EC21 EH_CU_ID_AR   | mg/kg | 10   | MCERTS | < 10    | < 10    | < 10    | < 10    | < 10    |
| TPHCWG - Aromatic >EC21 - EC35 EH_CU_ID_AR   | mg/kg | 10   | MCERTS | < 10    | < 10    | < 10    | < 10    | < 10    |
| TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_ID_AR | mg/kg | 10   | NONE   | < 10    | < 10    | < 10    | < 10    | < 10    |

#### VOCs

|                                    |       |   |        |       |       |       |       |       |
|------------------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Benzene                            | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene                            | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene                       | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| o-Xylene                           | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

#### PCBs by GC-MS

|                  |       |       |        |         |         |         |         |         |
|------------------|-------|-------|--------|---------|---------|---------|---------|---------|
| PCB Congener 28  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 52  | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 101 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 118 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 138 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 153 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| PCB Congener 180 | mg/kg | 0.001 | MCERTS | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |

|            |       |       |        |         |         |         |         |         |
|------------|-------|-------|--------|---------|---------|---------|---------|---------|
| Total PCBs | mg/kg | 0.007 | MCERTS | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 |
|------------|-------|-------|--------|---------|---------|---------|---------|---------|

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

**Analytical Report Number : 24-010559**

**Project / Site name: Bowmans Mill**

\* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description *                    |
|-------------------|------------------|---------------|-----------|-----------------------------------------|
| 152457            | WS101            | None Supplied | 0.5       | Brown clay and sand with gravel         |
| 152458            | WS101            | None Supplied | 1.5       | Brown clay and sand                     |
| 152459            | WS102            | None Supplied | 0.5       | Brown clay and sand with gravel         |
| 152460            | WS102            | None Supplied | 1.5       | Brown clay and sand with gravel         |
| 152461            | WS103            | None Supplied | 0.6       | Brown clay and sand with gravel         |
| 152462            | WS103            | None Supplied | 1.5       | Brown clay and sand with gravel         |
| 152463            | WS104            | None Supplied | 0.7       | Brown sandy clay with gravel and stones |
| 152464            | WS104            | None Supplied | 1.5       | Brown clay and sand with gravel         |
| 152465            | WS105            | None Supplied | 0.5       | Brown sandy clay with gravel and stones |
| 152466            | WS105            | None Supplied | 1.5       | Brown sand with gravel and stones       |

**Analytical Report Number : 24-010559**

**Project / Site name: Bowmans Mill**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                                                        | Analytical Method Description                                                                                              | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Moisture Content                                                            | Moisture content, determined gravimetrically (up to 30°C)                                                                  | In-house method                                                            | L019B         | W                  | NONE                 |
| Stones content of soil                                                      | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight | In-house method based on British Standard Methods and MCERTS requirements. | L019B         | D                  | NONE                 |
| PCB's By GC-MS in soil                                                      | Determination of PCB by extraction with hexane followed by GC-MS                                                           | In-house method based on USEPA 8082                                        | L027B         | D                  | MCERTS               |
| BTEX and/or Volatile organic compounds in soil                              | Determination of volatile organic compounds in soil by headspace GC-MS                                                     | In-house method based on USEPA 8260                                        | L073B         | W                  | MCERTS               |
| Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic        | In-house method                                                            | L076B/L088    | D/W                | MCERTS               |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| -       | Operator - understore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

# Sample Deviation Report



**Analytical Report Number : 24-010559**

**Project / Site name: Bowmans Mill**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

| Sample ID | Other ID | Sample Type | Lab Sample Number | Sample Deviation | Test Name                                                                   | Test Ref   | Test Deviation |
|-----------|----------|-------------|-------------------|------------------|-----------------------------------------------------------------------------|------------|----------------|
| WS101     | N/A      | S           | 152457            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS101     | N/A      | S           | 152457            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS101     | N/A      | S           | 152457            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS101     | N/A      | S           | 152458            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS101     | N/A      | S           | 152458            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS101     | N/A      | S           | 152458            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS102     | N/A      | S           | 152459            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS102     | N/A      | S           | 152459            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS102     | N/A      | S           | 152459            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS102     | N/A      | S           | 152460            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS102     | N/A      | S           | 152460            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS102     | N/A      | S           | 152460            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS103     | N/A      | S           | 152461            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS103     | N/A      | S           | 152461            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS103     | N/A      | S           | 152461            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS103     | N/A      | S           | 152462            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS103     | N/A      | S           | 152462            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS103     | N/A      | S           | 152462            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS104     | N/A      | S           | 152463            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS104     | N/A      | S           | 152463            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS104     | N/A      | S           | 152463            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS104     | N/A      | S           | 152464            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS104     | N/A      | S           | 152464            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS104     | N/A      | S           | 152464            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS105     | N/A      | S           | 152465            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS105     | N/A      | S           | 152465            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS105     | N/A      | S           | 152465            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |
| WS105     | N/A      | S           | 152466            | a                | BTEX and/or Volatile organic compounds in soil                              | L073B      | a              |
| WS105     | N/A      | S           | 152466            | a                | PCB's By GC-MS in soil                                                      | L027B      | a              |
| WS105     | N/A      | S           | 152466            | a                | Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | L076B/L088 | a              |



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## **Analytical Report Number : 24-011173**

|                             |                 |                                                        |            |
|-----------------------------|-----------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Bowmans Mill    | <b>Samples received on:</b>                            | 26/03/2024 |
| <b>Your job number:</b>     | 23030           | <b>Samples instructed on/<br/>Analysis started on:</b> | 26/03/2024 |
| <b>Your order number:</b>   | 23030           | <b>Analysis completed by:</b>                          | 04/04/2024 |
| <b>Report Issue Number:</b> | 1               | <b>Report issued on:</b>                               | 04/04/2024 |
| <b>Samples Analysed:</b>    | 5 water samples |                                                        |            |

**Signed:** \_\_\_\_\_

Anna Goc  
PL Head of Reporting Team  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

|           |                           |
|-----------|---------------------------|
| soils     | - 4 weeks from reporting  |
| leachates | - 2 weeks from reporting  |
| waters    | - 2 weeks from reporting  |
| asbestos  | - 6 months from reporting |

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-011173  
Project / Site name: Bowmans Mill

Your Order No: 23030

|                                          |               |                    |                         |               |               |
|------------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|
| Lab Sample Number                        | 156026        | 156027             | 156028                  | 156029        | 156030        |
| Sample Reference                         | WS101         | WS102              | WS103                   | WS104         | WS105         |
| Sample Number                            | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Depth (m)                                | 1.05          | 1.20               | 2.36                    | 1.28          | 0.72          |
| Date Sampled                             | 25/03/2024    | 25/03/2024         | 25/03/2024              | 25/03/2024    | 25/03/2024    |
| Time Taken                               | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |

#### Petroleum Hydrocarbons

|                                                     |      |    |           |       |       |       |       |       |
|-----------------------------------------------------|------|----|-----------|-------|-------|-------|-------|-------|
| TPH - Aliphatic >C5 - C6 <sub>HS_ID_AL</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C6 - C8 <sub>HS_ID_AL</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C8 - C10 <sub>HS_ID_AL</sub>       | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aliphatic >C10 - C12 <sub>EH_ID_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 15    | < 10  | < 10  |
| TPH - Aliphatic >C12 - C16 <sub>EH_ID_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 50    | < 10  | < 10  |
| TPH - Aliphatic >C16 - C21 <sub>EH_ID_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 60    | < 10  | < 10  |
| TPH - Aliphatic >C21 - C35 <sub>EH_ID_AL_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 290   | < 10  | < 10  |
| TPH - Aliphatic >C5 - C35 <sub>HS+EH_ID_AL_MS</sub> | µg/l | 10 | NONE      | < 10  | < 10  | 420   | < 10  | < 10  |

|                                                      |      |    |           |       |       |       |       |       |
|------------------------------------------------------|------|----|-----------|-------|-------|-------|-------|-------|
| TPH - Aromatic >EC5 - EC7 <sub>HS_ID_AR</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC7 - EC8 <sub>HS_ID_AR</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC8 - EC10 <sub>HS_ID_AR</sub>       | µg/l | 1  | ISO 17025 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPH - Aromatic >EC10 - EC12 <sub>EH_ID_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH - Aromatic >EC12 - EC16 <sub>EH_ID_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 25    | < 10  | < 10  |
| TPH - Aromatic >EC16 - EC21 <sub>EH_ID_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | 20    | < 10  | < 10  |
| TPH - Aromatic >EC21 - EC35 <sub>EH_ID_AR_MS</sub>   | µg/l | 10 | NONE      | < 10  | < 10  | < 10  | < 10  | < 10  |
| TPH - Aromatic >EC5 - EC35 <sub>HS+EH_ID_AR_MS</sub> | µg/l | 10 | NONE      | < 10  | < 10  | 45    | < 10  | < 10  |

#### VOCs

|                                    |      |   |           |       |       |       |       |       |
|------------------------------------|------|---|-----------|-------|-------|-------|-------|-------|
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Benzene                            | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Toluene                            | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| Ethylbenzene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| p & m-xylene                       | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |
| o-xylene                           | µg/l | 3 | ISO 17025 | < 3.0 | < 3.0 | < 3.0 | < 3.0 | < 3.0 |

#### PCBs by GC-MS

|                   |      |      |      |        |        |        |        |        |
|-------------------|------|------|------|--------|--------|--------|--------|--------|
| PCB Congener 28   | µg/l | 0.02 | NONE | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| PCB Congener 52   | µg/l | 0.02 | NONE | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| PCB Congener 101  | µg/l | 0.02 | NONE | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| PCB Congener 118  | µg/l | 0.02 | NONE | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| PCB Congener 138  | µg/l | 0.02 | NONE | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| PCB Congener 153  | µg/l | 0.02 | NONE | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| PCB Congener 180  | µg/l | 0.02 | NONE | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Total ICES-7 PCBs | µg/l | 0.14 | NONE | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 24-011173

Project / Site name: Bowmans Mill

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                                               | Analytical Method Description                                                                                       | Analytical Method Reference         | Method number | Wet / Dry Analysis | Accreditation Status |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------|--------------------|----------------------|
| PCB's By GC-MS in water                                            | Determination of PCB by extraction with hexane followed by GC-MS                                                    | In-house method based on USEPA 8082 | L028B         | W                  | NONE                 |
| Total petroleum hydrocarbons with carbon banding by GC-MS in water | Determination of total petroleum hydrocarbons in water by GC-MS/GC-MS HS with carbon banding aliphatic and aromatic | In-house method                     | L070B         | W                  | NONE                 |
| BTEX and/or Volatile organic compounds in water                    | Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW              | In-house method based on USEPA 8260 | L073B         | W                  | ISO 17025            |
| Total petroleum hydrocarbons by GC-MS HS in water                  | Determination of total petroleum hydrocarbons in water by GC-MS HS                                                  | In-house method                     | L088          | W                  | ISO 17025            |

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.



## Appendix C – Soil Screening Levels

## Soil Screening Levels

The following generic screening levels are used in the report for assessing risks to human health from contaminants in soil. All screening levels are for 1% SOM.

| Contaminant            | Units | Source | Residential with home produce | Residential without home produce | Commercial | Public open space (residential) | Public open space (park) |
|------------------------|-------|--------|-------------------------------|----------------------------------|------------|---------------------------------|--------------------------|
| Cyanide (free)         | mg/kg | RIVM   | 20                            | 20                               | 30         | -                               | -                        |
| Cyanide (total)        | mg/kg | RIVM   | 50                            | 50                               | 500        | -                               | -                        |
| Boron                  | mg/kg | S4UL   | 290                           | 11,000                           | 240,000    | 21,000                          | 46,000                   |
| Arsenic                | mg/kg | S4UL   | 37                            | 40                               | 640        | 79                              | 170                      |
| Cadmium                | mg/kg | S4UL   | 11                            | 85                               | 190        | 120                             | 532                      |
| Chromium (total)       | mg/kg | S4UL   | 910                           | 910                              | 8,600      | 1,500                           | 33,000                   |
| Copper                 | mg/kg | S4UL   | 2,400                         | 7,100                            | 68,000     | 12,000                          | 44,000                   |
| Mercury                | mg/kg | S4UL   | 40                            | 56                               | 1,100      | 120                             | 240                      |
| Nickel                 | mg/kg | S4UL   | 180                           | 180                              | 980        | 230                             | 3,400                    |
| Lead                   | mg/kg | C4SL   | 200                           | 310                              | 2,330      | 630                             | 1,300                    |
| Selenium               | mg/kg | S4UL   | 250                           | 430                              | 12,000     | 1,100                           | 1,800                    |
| Zinc                   | mg/kg | S4UL   | 3,700                         | 40,000                           | 730,000    | 81,000                          | 170,000                  |
| Chromium (hex.)        | mg/kg | S4UL   | 6                             | 6                                | 33         | 7.7                             | 220                      |
| TPH Aliphatic >C5-C6   | mg/kg | S4UL   | 42                            | 42                               | 3,200      | 570,000                         | 95,000                   |
| TPH Aliphatic >C6-C8   | mg/kg | S4UL   | 100                           | 100                              | 7,800      | 600,000                         | 150,000                  |
| TPH Aliphatic >C8-C10  | mg/kg | S4UL   | 27                            | 27                               | 2,000      | 13,000                          | 14,000                   |
| TPH Aliphatic >C10-C12 | mg/kg | S4UL   | 130                           | 130                              | 9,700      | 13,000                          | 21,000                   |
| TPH Aliphatic >C12-C16 | mg/kg | S4UL   | 1,100                         | 1,100                            | 59,000     | 13,000                          | 25,000                   |
| TPH Aliphatic >C16-C21 | mg/kg | S4UL   | 65,000                        | 65,000                           | 1,600,000  | 250,000                         | 450,000                  |
| TPH Aliphatic >C21-C35 | mg/kg | S4UL   | 65,000                        | 65,000                           | 1,600,000  | 250,000                         | 450,000                  |
| TPH Aromatic >C5-C7    | mg/kg | S4UL   | 70                            | 370                              | 26,000     | 56,000                          | 76,000                   |
| TPH Aromatic >C7-C8    | mg/kg | S4UL   | 130                           | 860                              | 56,000     | 56,000                          | 87,000                   |
| TPH Aromatic >C8-C10   | mg/kg | S4UL   | 34                            | 47                               | 3,500      | 5,000                           | 7,200                    |
| TPH Aromatic >C10-C12  | mg/kg | S4UL   | 74                            | 250                              | 16,000     | 5,000                           | 9,200                    |
| TPH Aromatic >C12-C16  | mg/kg | S4UL   | 140                           | 1,800                            | 36,000     | 5,100                           | 10,000                   |
| TPH Aromatic >C16-C21  | mg/kg | S4UL   | 260                           | 1,900                            | 28,000     | 3,800                           | 7,600                    |
| TPH Aromatic >C21-C35  | mg/kg | S4UL   | 1,100                         | 1,900                            | 28,000     | 3,800                           | 7,800                    |
| Naphthalene            | mg/kg | S4UL   | 2.3                           | 2.3                              | 190        | 4,900                           | 1,200                    |
| Acenaphthylene         | mg/kg | S4UL   | 170                           | 2,900                            | 83,000     | 15,000                          | 29,000                   |
| Acenaphthene           | mg/kg | S4UL   | 210                           | 3,000                            | 84,000     | 15,000                          | 29,000                   |
| Fluorene               | mg/kg | S4UL   | 170                           | 2,800                            | 63,000     | 9,900                           | 20,000                   |
| Phenanthrene           | mg/kg | S4UL   | 95                            | 1,300                            | 22,000     | 3,100                           | 6,200                    |
| Anthracene             | mg/kg | S4UL   | 2,400                         | 31,000                           | 520,000    | 74,000                          | 150,000                  |

| Contaminant                              | Units | Source         | Residential with home produce | Residential without home produce | Commercial | Public open space (residential) | Public open space (park) |
|------------------------------------------|-------|----------------|-------------------------------|----------------------------------|------------|---------------------------------|--------------------------|
| Fluoranthene                             | mg/kg | S4UL           | 280                           | 1,500                            | 23,000     | 3,100                           | 6,300                    |
| Pyrene                                   | mg/kg | S4UL           | 620                           | 3,700                            | 54,000     | 7,400                           | 15,000                   |
| Benzo[a]anthracene                       | mg/kg | S4UL           | 7.2                           | 11                               | 170        | 29                              | 49                       |
| Chrysene                                 | mg/kg | S4UL           | 15                            | 30                               | 350        | 57                              | 93                       |
| Benzo[b]fluoranthene                     | mg/kg | S4UL           | 2.6                           | 3.9                              | 44         | 7.1                             | 13                       |
| Benzo[k]fluoranthene                     | mg/kg | S4UL           | 77                            | 11                               | 1,200      | 190                             | 370                      |
| Benzo[a]pyrene                           | mg/kg | S4UL           | 2.2                           | 3.2                              | 35         | 5.7                             | 11                       |
| Indeno[1,2,3-c,d]pyrene                  | mg/kg | S4UL           | 27                            | 45                               | 500        | 82                              | 150                      |
| Dibenz[a,h]anthracene                    | mg/kg | S4UL           | 0.24                          | 0.31                             | 3.5        | 0.57                            | 1.1                      |
| Benzo[g,h,i]perylene                     | mg/kg | S4UL           | 320                           | 360                              | 3,900      | 640                             | 1,400                    |
| Phenols (total)                          | mg/kg | S4UL           | 120                           | 440                              | 440        | 440                             | 440                      |
| Benzene                                  | µg/kg | S4UL           | 87                            | 380                              | 27,000     | 72,000                          | 90,000                   |
| Toluene                                  | µg/kg | S4UL           | 130,000                       | 880,000                          | 56,000,000 | 56,000,000                      | 87,000,000               |
| Ethylbenzene                             | µg/kg | S4UL           | 47,000                        | 83,000                           | 5,700,000  | 24,000,000                      | 17,000,000               |
| m & p-xylene                             | µg/kg | S4UL           | 56,000                        | 79,000                           | 5,900,000  | 41,000,000                      | 17,000,000               |
| o-xylene                                 | µg/kg | S4UL           | 60,000                        | 88,000                           | 660,000    | 41,000,000                      | 17,000,000               |
| Sum of PCDDs, PCDFs and dioxin-like PCBs | µg/kg | EA<br>SC050021 | 8                             | 8                                | 240        | -                               | -                        |

## Appendix D – Controlled Waters Screening Levels

## Controlled Waters Screening Levels

Generic screening levels used in the report for assessing risks to controlled waters (surface water and groundwater) from contaminants in water and soil leachate samples.

| Contaminant             | Units | UK Drinking Water Standard (DWS) <sup>[1]</sup> for groundwater impact | WHO Drinking Water Guideline <sup>[2]</sup> | Environmental Quality Standard (EQS) for surface water impact |
|-------------------------|-------|------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------|
| Cyanide                 | µg/l  | 50                                                                     | -                                           | 1 <sup>[6]</sup>                                              |
| Boron                   | µg/l  | 1000                                                                   | -                                           | 750 <sup>[4]</sup>                                            |
| Arsenic                 | µg/l  | 10                                                                     | -                                           | 50 <sup>[10]</sup>                                            |
| Cadmium                 | µg/l  | 5                                                                      | -                                           | 0.25 <sup>[6,7]</sup>                                         |
| Chromium (total)        | µg/l  | 50                                                                     | -                                           | 4.7 <sup>[9]</sup>                                            |
| Copper                  | µg/l  | 2000                                                                   | -                                           | 4 <sup>[8]</sup>                                              |
| Mercury                 | µg/l  | 1                                                                      | -                                           | 0.07 <sup>[11]</sup>                                          |
| Nickel                  | µg/l  | 20                                                                     | -                                           | 3.6 <sup>[6,8]</sup>                                          |
| Lead                    | µg/l  | 10                                                                     | -                                           | 1.2 <sup>[6]</sup>                                            |
| Selenium                | µg/l  | 10                                                                     | -                                           | 7.5 <sup>[4]</sup>                                            |
| Zinc                    | µg/l  | 5000                                                                   | -                                           | 10.9 <sup>[10]</sup>                                          |
| Chromium (hex.)         | µg/l  | -                                                                      | -                                           | 3.4 <sup>[9]</sup>                                            |
| TPH Aliphatic >C5-C6    | µg/l  | 10                                                                     | 15,000                                      | -                                                             |
| TPH Aliphatic >C6-C8    | µg/l  | 10                                                                     | 15,000                                      | -                                                             |
| TPH Aliphatic >C8-C10   | µg/l  | 10                                                                     | 300                                         | -                                                             |
| TPH Aliphatic >C10-C12  | µg/l  | 10                                                                     | 300                                         | -                                                             |
| TPH Aliphatic >C12-C16  | µg/l  | 10                                                                     | 300                                         | -                                                             |
| TPH Aliphatic >C16-C21  | µg/l  | 10                                                                     | 300                                         | -                                                             |
| TPH Aliphatic >C21-C35  | µg/l  | 10                                                                     | 300                                         | -                                                             |
| TPH Aromatic >C5-C7     | µg/l  | 10                                                                     | 10                                          | -                                                             |
| TPH Aromatic >C7-C8     | µg/l  | 10                                                                     | 700                                         | -                                                             |
| TPH Aromatic >C8-C10    | µg/l  | 10                                                                     | 300                                         | -                                                             |
| TPH Aromatic >C10-C12   | µg/l  | 10                                                                     | 90                                          | -                                                             |
| TPH Aromatic >C12-C16   | µg/l  | 10                                                                     | 90                                          | -                                                             |
| TPH Aromatic >C16-C21   | µg/l  | 10                                                                     | 90                                          | -                                                             |
| TPH Aromatic >C21-C35   | µg/l  | 10                                                                     | 90                                          | -                                                             |
| Naphthalene             | µg/l  | 2                                                                      | -                                           | 2 <sup>[6]</sup>                                              |
| Anthracene              | µg/l  | -                                                                      | 1                                           | 0.1 <sup>[6]</sup>                                            |
| Fluoranthene            | µg/l  | -                                                                      | 4                                           | 0.0063 <sup>[6]</sup>                                         |
| Benzo[b]fluoranthene    | µg/l  | 0.1                                                                    | -                                           | 0.00017 <sup>[6,9]</sup>                                      |
| Benzo[k]fluoranthene    | µg/l  | 0.1                                                                    | -                                           | 0.00017 <sup>[6,9]</sup>                                      |
| Benzo[a]pyrene          | µg/l  | 0.01                                                                   | 0.7                                         | 0.00017 <sup>[6]</sup>                                        |
| Indeno[1,2,3-c,d]pyrene | µg/l  | 0.1                                                                    | -                                           | 0.00017 <sup>[6,9]</sup>                                      |
| Benzo[g,h,i]perylene    | µg/l  | 0.1                                                                    | -                                           | 0.00017 <sup>[6,9]</sup>                                      |
| Phenols (total)         | µg/l  | 0.5                                                                    | -                                           | 7.7 <sup>[10]</sup>                                           |
| Benzene                 | µg/l  | 1                                                                      | 10                                          | 6 <sup>[6]</sup>                                              |
| Toluene                 | µg/l  | -                                                                      | 700                                         | 74 <sup>[10]</sup>                                            |
| Ethylbenzene            | µg/l  | -                                                                      | 300                                         | -                                                             |
| m & p-xylene            | µg/l  | -                                                                      | 500                                         | 15.5 <sup>[3,5]</sup>                                         |
| o-xylene                | µg/l  | -                                                                      | 500                                         |                                                               |

### Notes

1. Prescribed concentration listed in the Water Supply (Water Quality) Regulations 2016.

2. Drinking water guideline values listed in the World Health Organisation document, Guidelines for drinking-water quality: fourth edition (WHO, 2017). Used to assess impacts to surface water and groundwater from hydrocarbons (use DWS for SPZ1 or Principal aquifer).
3. EQS is the minimum Threshold Value for Groundwater (impacts on surface water) listed in Table 1 of Schedule 5 of the Water Framework Directive (WFD) (Standards and Classification) Directions (England and Wales) 2015.
4. EQS is the General Quality of GW Body listed in Table 1 of Schedule 5 of the Water Framework Directive (WFD) (Standards and Classification) Directions (England and Wales) 2015.
5. EQS is the sum of m, p & o-xylene.
6. EQS is the AA-EQS (inland surface waters) listed in Table 1 of Part 3 of the Water Framework Directive (WFD) (Standards and Classification) Directions (England and Wales) 2015.
7. EQS is for the water hardness band  $\geq 200$  mg  $\text{CaCO}_3/\text{l}$ .
8. EQS is the sum of PNEC+C<sub>b</sub> (Predicted No Effect Concentration + background concentration) calculated in accordance with Table 2 of the Water Framework Directive (WFD) (Standards and Classification) Directions (England and Wales) 2015. PNEC and C<sub>b</sub> for copper are 2.6 and 1.0  $\mu\text{g/l}$ , respectively.
9. Benzo[a]pyrene is used as a marker compound for the substance.
10. EQS is the standard for fresh water listed in Table 1 of Part 2 (specific pollutants) of the Water Framework Directive (WFD) (Standards and Classification) Directions (England and Wales) 2015.
11. EQS is the MAC-EQS (inland surface waters) listed in Table 1 of Part 3 of the Water Framework Directive (WFD) (Standards and Classification) Directions (England and Wales) 2015.

## **Appendix E – Vapour Protection Standards**

## Vapour Protection Standards

The following Protection Standards are used in the report for the assessment of human health risks from organic vapour intrusion into buildings (indoor inhalation).

| Volatile Organic Compound | Protection Standard in soil (mg/kg) <sup>[2]</sup> |                        | Protection Standard in groundwater (µg/l) <sup>[3]</sup> |                           |
|---------------------------|----------------------------------------------------|------------------------|----------------------------------------------------------|---------------------------|
|                           | Residential                                        | Commercial             | Residential                                              | Commercial                |
| TPH Aliphatic >C5-C6      | 161                                                | 19,600 <sup>[4]</sup>  | 1,900                                                    | 190,000 <sup>[5]</sup>    |
| TPH Aliphatic >C6-C8      | 529                                                | 64,400 <sup>[4]</sup>  | 1,500                                                    | 150,000 <sup>[5]</sup>    |
| TPH Aliphatic >C8-C10     | 156                                                | 19,000 <sup>[4]</sup>  | 57                                                       | 5,700 <sup>[5]</sup>      |
| TPH Aliphatic >C10-C12    | 793 <sup>[4]</sup>                                 | 96,600 <sup>[4]</sup>  | 37                                                       | 3,600 <sup>[5]</sup>      |
| TPH Aromatic >C5-C7       | 1.48                                               | 173                    | 210,000                                                  | 20,000,000 <sup>[5]</sup> |
| TPH Aromatic >C7-C8       | 4,570 <sup>[4]</sup>                               | 517,000 <sup>[4]</sup> | 220,000                                                  | 21,000,000 <sup>[5]</sup> |
| TPH Aromatic >C8-C10      | 553                                                | 67,400 <sup>[4]</sup>  | 1,900                                                    | 190,000 <sup>[5]</sup>    |
| TPH Aromatic >C10-C12     | 3,050 <sup>[4]</sup>                               | 373,000 <sup>[4]</sup> | 6,800                                                    | 660,000 <sup>[5]</sup>    |
| Naphthalene               | 13.2                                               | 1,720 <sup>[4]</sup>   | 220                                                      | 23,000 <sup>[5]</sup>     |

1. The selected VOCs have the potential to create a vapour intrusion risk and are defined as a volatile substance with 12 carbon atoms or less.
2. ss.
3. Protection standards for soil were derived using CLEA software version 1.071 (2015) and calculated for the indoor inhalation pathway.
4. Vapour protection standards for groundwater are the GACgwvap published by the Society of Brownfield Risk Assessment publication, Development of generic assessment criteria for assessing vapour risks to human health from volatile contaminants in groundwater (SoBRA, 2017).
5. Soil protection standard exceeds soil saturation limit; vapour risks from NAPL should be considered in addition.
6. GACgwvap exceeds aqueous solubility; vapour risks from NAPL should be considered in addition.

## Appendix F – Defining Risk

## Risk Evaluation

Risk evaluation is qualitative and is developed from the model provided in CIRIA C552 *Contaminated Land Risk Assessment – a guide to good practice* (DETR 2001). It involves classifying risk in terms of the probability of occurrence x magnitude of the potential consequence of occurrence. The risk rating is used to determine what action, if any, is needed to further investigate that risk and/or remediate to reduce risk to an acceptable level.

### *Classification of Probability*

| Classification  | Definition                                                                                                                                                                                                                                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Likelihood | There is a pollution linkage and an event appears very likely in the short term and almost inevitable in the long term or there is actual evidence at the receptor of harm or pollution.                                                                                   |
| Likely          | There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur.<br><br>Circumstances are such that an event is not inevitable, but possible in the short term and likely in the long term. |
| Low Likelihood  | There is a pollution linkage and circumstances are possible under which an event could occur.<br><br>However, it is not certain that even over a longer period such event would take place, and is less likely in the shorter term.                                        |
| Unlikely        | There is a pollution linkage but circumstances are such that it is improbable that an event would occur in the very long term.                                                                                                                                             |

### *Classification of Consequence*

| Classification | Definition                                                                                                                                                                                                                                                                                             | Examples                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Severe         | <ul style="list-style-type: none"> <li>Short-term (acute) risk to human health likely to result in significant harm.</li> <li>Short-term (acute) risk of pollution of sensitive water resource.</li> <li>Short-term (acute) risk to an ecosystem, or organism forming part of an ecosystem.</li> </ul> | <p>Unusually high concentration of toxic substance on the surface of a garden.</p> <p>Major release into controlled waters. EA Category 1 pollution incident. Closure of an abstraction point. Explosion, causing building collapse (and death if occupied).</p>                                                                                                                                                                                      |
| Medium         | <ul style="list-style-type: none"> <li>Chronic damage to human health likely to result in significant harm.</li> <li>Pollution of sensitive water resource.</li> <li>Significant change in a particular ecosystem, or organism forming part of such ecosystem.</li> </ul>                              | <p>Concentration of contaminant from site exceeds generic or site-specific assessment criteria for human health or water supply pipes. Presence of asbestos.</p> <p>Leaching of contaminants from a site to a principal or secondary (A) aquifer. Concentration exceeds DWS or EQS in Inner Source Protection Zone (SPZ1). EA Category 2+ pollution incident.</p> <p>Death of a species or loss of habitat within an area of national importance.</p> |
| Mild           | <ul style="list-style-type: none"> <li>Exposure is unlikely to result in significant harm to human health.</li> </ul>                                                                                                                                                                                  | Concentration of contaminant from site below generic or site-specific assessment criteria.                                                                                                                                                                                                                                                                                                                                                            |

| Classification | Definition                                                                                                                                                                                                                                                      | Examples                                                                                                                                                                                                                              |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | <ul style="list-style-type: none"> <li>Pollution of non-sensitive water resource.</li> <li>Damage to sensitive buildings, structures and services or the environment.</li> </ul>                                                                                | <p>Pollution of secondary (B or undifferentiated) aquifer. EA Category 3 pollution incident.</p> <p>Damage to a building rendering it unsafe to occupy. Death of a species or loss of habitat within an area of local importance.</p> |
| Minor          | <ul style="list-style-type: none"> <li>Harm (but not significant harm) resulting in a financial loss or expenditure to resolve.</li> <li>Non-permanent human health effects.</li> <li>Easily repairable damage to buildings, structures and services</li> </ul> | <p>Pollution of unproductive strata.</p> <p>Loss of plants in garden or landscape areas.</p>                                                                                                                                          |

### Risk Estimation

|             |                 | Consequence    |               |               |               |
|-------------|-----------------|----------------|---------------|---------------|---------------|
|             |                 | Severe         | Medium        | Mild          | Minor         |
| Probability | High Likelihood | Very high risk | High risk     | Moderate risk | Low risk      |
|             | Likely          | High risk      | Moderate risk | Low risk      | Low risk      |
|             | Low Likelihood  | Moderate risk  | Low risk      | Low risk      | Very low risk |
|             | Unlikely        | Low risk       | Low risk      | Very low risk | Very low risk |
|             | No linkage      | No risk        |               |               |               |

### Description of the Estimated Risks and Likely Action Required

| Risk      | Action                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Very high | <p>There is a high probability that severe harm could arise or there is evidence that severe harm is currently happening. This risk, if realised, is likely to result in substantial liability.</p> <ul style="list-style-type: none"> <li>Urgent investigation required.</li> <li>Remediation required for the site in its existing state and for development.</li> </ul> |
| High      | <p>Harm is likely to arise. Realisation of the risk is likely to present a significant liability.</p> <ul style="list-style-type: none"> <li>Urgent investigation is required and remedial works may be necessary in the short term and are likely over the long term.</li> <li>Remediation required for development.</li> </ul>                                           |
| Moderate  | <p>A potential linkage is identifiable. However, it is either relatively unlikely that harm would be severe or, if any harm were to occur, it is more likely that the harm would be relatively mild.</p>                                                                                                                                                                   |

|                 |                                                                                                                                                                                                                                                                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | <ul style="list-style-type: none"> <li>Investigation required to quantify the risk and determine potential liability.</li> <li>Remediation required for development.</li> </ul>                                                                                                                                               |
| <b>Low</b>      | <p>It is possible that harm could arise but it is likely that this harm, if realised, would at worst normally be mild.</p> <ul style="list-style-type: none"> <li>Investigation is not normally required but could be useful to confirm findings.</li> <li>Remediation unlikely to be required or will be limited.</li> </ul> |
| <b>Very low</b> | <p>There is a low possibility that harm could arise. In the event of such harm being realised it is not likely to be severe. Site is not capable of being determined under Part 2a.</p> <ul style="list-style-type: none"> <li>No further action recommended.</li> </ul>                                                      |

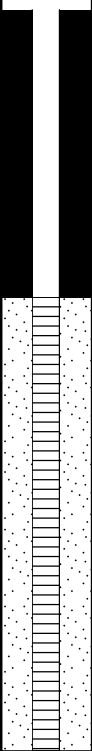
## Appendix 2 – Exploratory Hole Logs

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Enzygo Ltd  
Tel: 01454 269237  
Fax: 01454 269760  
Web: www.enzygo.com

|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS101           |
| Job No<br>CRM.1027.189      | Dates<br>Start 24-07-24<br>Finish 24-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well                                                                              | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend                                                                              | Stratum Description                                                                                                      |   |
|-----------------------------------------------------------------------------------|--------------|---------------------------|---------|---------|-----------|-------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                   |              | Depth (m)                 | No/Type | Results |           |             |                                                                                     |                                                                                                                          |   |
|  |              | 0.50                      | B       |         | 0.48      |             |    | MADE GROUND: CONCRETE.                                                                                                   | 0 |
|                                                                                   |              | 0.80                      | ES      |         | 0.80      |             |    | MADE GROUND: Crushed BRICK and CONCRETE.                                                                                 |   |
|                                                                                   |              | 1.00 - 1.45               | SPT     | N 10    | 1.00      |             |    | MADE GROUND: Firm brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse brick and concrete. | 1 |
|                                                                                   |              | 1.20                      | D       |         | 1.40      |             |    | Orange gravelly coarse SAND. Gravel is angular fine to medium flint.                                                     |   |
|                                                                                   |              |                           |         |         |           |             |    | Firm brown gravelly sandy CLAY. Gravel is angular to subangular flint                                                    |   |
|                                                                                   |              | 2.00 - 4.00               | B       | N 12    |           |             |    | 2.00 - 2.45 Firm, medium strength.                                                                                       | 2 |
|                                                                                   |              | 2.00 - 2.45               | SPT     |         |           |             |    |                                                                                                                          |   |
|                                                                                   |              |                           |         |         |           |             |   |                                                                                                                          |   |
|                                                                                   |              | 3.00 - 3.45               | SPT     | N 12    |           |             |  | 3.00 - 3.45 Firm, medium strength.                                                                                       | 3 |
|                                                                                   |              |                           |         |         |           |             |  |                                                                                                                          |   |
|                                                                                   |              | 4.00 - 4.45               | SPT     | N 22    |           |             |  | 4.00 - 4.45 Stiff, high strength.                                                                                        | 4 |
|                                                                                   |              |                           |         |         |           |             |  |                                                                                                                          |   |
|                                                                                   |              | 5.00                      | D       | N 50    | 5.00      |             |  | Firm brown gravelly sandy CLAY. Gravel is angular to subangular flint                                                    | 5 |
|                                                                                   |              | 5.00 - 5.45               | SPT     |         | 5.45      |             |  | 5.00 - 5.45 Very stiff, very high strength. Refused at 5.45mbgl.                                                         |   |
|                                                                                   |              |                           |         |         |           |             |                                                                                     | Borehole completed at 5.45m.                                                                                             | 6 |
|                                                                                   |              |                           |         |         |           |             |                                                                                     |                                                                                                                          | 7 |
|                                                                                   |              |                           |         |         |           |             |                                                                                     |                                                                                                                          | 8 |
|                                                                                   |              |                           |         |         | {8.00}    |             |                                                                                     |                                                                                                                          |   |

General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Hydraulic breaker 0.00m-0.48mbgl. Dynamic sampled 0.00m-5.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 5.00mbgl, granular response zone (5.00m-2.00m), bentonite seal 2.00m-0.10m, gas valve and flush steel cover 0.10m-0.00m bgl.

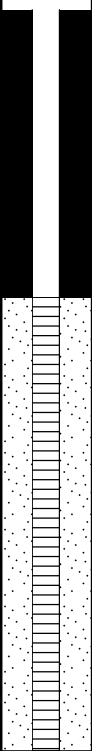
|                                        |      |                  |                  |                             |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |      |                  |                  |                             |
|                                        |      |                  |                  | Logged By<br>ES             |

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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS103           |
| Job No<br>CRM.1027.189      | Dates<br>Start 22-07-24<br>Finish 22-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well                                                                              | Water Levels                                                                      | Samples & In Situ Testing |          |         | Depth (m) | Level (mAD) | Legend                                                                              | Stratum Description                                                                                                                                          |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|----------|---------|-----------|-------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                   |                                                                                   | Depth (m)                 | No/Type  | Results |           |             |                                                                                     |                                                                                                                                                              |   |
|  |  | 0.14                      |          |         | 0.14      |             |    | MADE GROUND: CONCRETE.                                                                                                                                       | 0 |
|                                                                                   |                                                                                   | 0.40<br>0.50              | ES<br>B  |         |           |             |    | Firm greenish brown sandy gravelly CLAY. Gravel is rounded fine to coarse flint.                                                                             |   |
|                                                                                   |                                                                                   | 1.00 - 1.45               | SPT      | N 1     | 1.00      |             |    | 1.00 - 1.45 Very soft, extremely low strength.<br>Soft grey silty sandy slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint and chalk. | 1 |
|                                                                                   |                                                                                   | 2.00 - 2.45               | SPT      | N 11    |           |             |    | 2.00 - 2.45 Firm, medium strength.                                                                                                                           | 2 |
|                                                                                   |                                                                                   | 3.00<br>3.00 - 3.45       | D<br>SPT | N 22    |           |             |    | 3.00 - 3.45 Stiff, high strength.                                                                                                                            | 3 |
|                                                                                   |                                                                                   | 4.00 - 4.45               | SPT      | N 20    |           |             |  | 4.00 - 4.45 Stiff, high strength.                                                                                                                            | 4 |
|                                                                                   |                                                                                   | 5.00<br>5.00 - 5.45       | D<br>SPT | N 50    | 5.00      |             |  | 5.00 - 5.45 Very stiff, very high strength. Refused at 5.45mbgl.<br>Borehole completed at 5.45m.                                                             | 5 |
|                                                                                   |                                                                                   |                           |          |         | 5.45      |             |                                                                                     |                                                                                                                                                              | 6 |
|                                                                                   |                                                                                   |                           |          |         |           |             |                                                                                     |                                                                                                                                                              | 7 |
|                                                                                   |                                                                                   |                           |          |         | {8.00}    |             |                                                                                     |                                                                                                                                                              | 8 |

#### General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Hydraulic breaker 0.00m-0.14mbgl. Hand dug inspection pit 0.14m-1.00mbgl.  
Dynamic sampled 1.00m-5.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 5.00mbgl, granular response zone (5.00m-2.00m), bentonite seal 2.00m-0.10m, gas valve and flush steel cover 0.10m-0.00m bgl.

#### Groundwater

|          |                  |                  |                             |
|----------|------------------|------------------|-----------------------------|
| Date     | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| 22/07/24 | 3.00             |                  |                             |

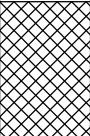
All dimensions in metres  
Scale 1:50

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|                             |                                            |                  |              |                 |  |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|--|
| Site<br>Ickleford Mill      |                                            |                  |              | WS103a          |  |
| Job No<br>CRM.1027.189      | Dates<br>Start 23-07-24<br>Finish 23-07-24 | Ground Level (m) | Co-Ordinates |                 |  |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |  |

| Well                                                                             | Water Levels                                                                      | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend                                                                            | Stratum Description                                                                                                                |   |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|---------|---------|-----------|-------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                  |                                                                                   | Depth (m)                 | No/Type | Results |           |             |                                                                                   |                                                                                                                                    |   |
|  |  | 0.50                      | B       |         | 0.90      |             |  | MADE GROUND: Grass over brown slightly gravelly clayey medium SAND. Gravel is angular to subangular concrete and flint.            | 0 |
|                                                                                  |                                                                                   | 0.70                      | ES      |         |           |             |                                                                                   |                                                                                                                                    |   |
|                                                                                  |                                                                                   | 1.00 - 1.45               | SPT     | N 0     |           |             |                                                                                   |                                                                                                                                    | 1 |
|                                                                                  |                                                                                   | 2.00 - 2.45               | SPT     | N 3     | 2.30      |             |  | Soft dark brown slightly gravelly sandy silty CLAY. Gravel is angular medium flint. 1.00 - 1.45 Very soft, extremely low strength. | 2 |
|                                                                                  |                                                                                   | 2.50                      | D       |         |           |             |                                                                                   |                                                                                                                                    |   |
|                                                                                  |                                                                                   | 3.00                      | D       |         | 3.00      |             |  | Brown coarse SAND.                                                                                                                 | 3 |
|                                                                                  |                                                                                   |                           |         |         | {8.00}    |             |                                                                                   | Borehole collapsed. Borehole completed at 3.00m.                                                                                   | 4 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                    | 5 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                    | 6 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                    | 7 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                    | 8 |

General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Dynamic sampled 0.00m-3.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, the borehole was backfilled with arisings.

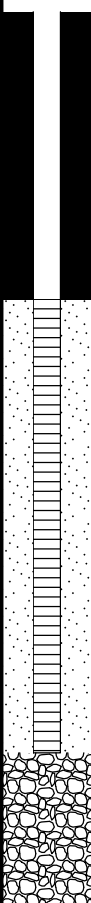
|                                        |                  |                          |                  |                             |
|----------------------------------------|------------------|--------------------------|------------------|-----------------------------|
| Groundwater                            | Date<br>23/07/24 | Strike Depth (m)<br>3.00 | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |                  |                          |                  | Logged By<br>ES             |

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|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS105           |
| Job No<br>CRM.1027.189      | Dates<br>Start 24-07-24<br>Finish 24-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well                                                                              | Water Levels                                                                      | Samples & In Situ Testing  |          |         | Depth (m)    | Level (mAD) | Legend                                                                              | Stratum Description                                                                                        |   |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|----------|---------|--------------|-------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---|--|
|                                                                                   |                                                                                   | Depth (m)                  | No/Type  | Results |              |             |                                                                                     |                                                                                                            |   |  |
|  |  |                            |          |         | 0.26<br>0.30 |             |    | MADE GROUND: CONCRETE.                                                                                     | 0 |  |
|                                                                                   |                                                                                   | 0.40<br>0.50               | ES<br>B  |         |              |             |    | MADE GROUND: Crushed BRICK and CONCRETE.                                                                   |   |  |
|                                                                                   |                                                                                   | 1.00 - 3.00<br>1.00 - 1.45 | B<br>SPT | N 3     |              |             |    | Soft grey silty sandy slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint and chalk. | 1 |  |
|                                                                                   |                                                                                   |                            |          |         |              |             |    | 1.00 - 1.45 Very soft, extremely low strength.                                                             |   |  |
|                                                                                   |                                                                                   | 2.00 - 2.45                | SPT      | N 7     |              |             |    | 2.00 - 2.45 Soft, low strength.                                                                            | 2 |  |
|                                                                                   |                                                                                   | 3.00 - 3.45                | SPT      | N 3     |              |             |    | 3.00 - 3.45 Very soft, extremely low strength.                                                             | 3 |  |
|                                                                                   |                                                                                   | 4.00 - 4.45                | SPT      | N 9     |              |             |    | 4.00 - 4.45 Firm, low strength.                                                                            | 4 |  |
|                                                                                   |                                                                                   | 5.00<br>5.00 - 5.45        | D<br>SPT | N 11    |              |             |    | 5.00 - 5.45 Firm, medium strength.<br>5.00 - 6.00 Borehole collapsed.                                      | 5 |  |
|                                                                                   |                                                                                   | 6.00<br>6.00 - 6.45        | D<br>SPT | N 16    | 6.00<br>6.45 |             |   | Soft grey silty sandy slightly gravelly CLAY. Gravel is angular to rounded fine to medium flint and chalk. | 6 |  |
|                                                                                   |                                                                                   |                            |          |         |              |             |  | 6.00 - 6.45 Stiff, medium strength.                                                                        | 7 |  |
| Borehole completed at 6.45m.                                                      |                                                                                   |                            |          |         |              |             |                                                                                     |                                                                                                            | 8 |  |
| {8.00}                                                                            |                                                                                   |                            |          |         |              |             |                                                                                     |                                                                                                            |   |  |

#### General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Hydraulic breaker 0.00m-0.26mbgl. Dynamic sampled 0.26m-6.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 5.00mbgl, granular response zone (5.00m-2.00m), bentonite seal 2.00m-0.10m, gas valve and flush steel cover 0.10m-0.00m bgl.

#### Groundwater

|          |                  |                  |                             |
|----------|------------------|------------------|-----------------------------|
| Date     | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| 24/07/24 | 3.00             |                  |                             |

All dimensions in metres  
Scale 1:50

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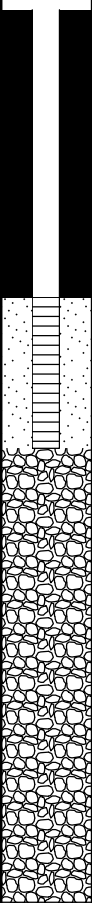
|                                                                                                                                                                                                                                                              |              |                                            |          |                  |           |                 |        |                                                                                                                                  |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------|----------|------------------|-----------|-----------------|--------|----------------------------------------------------------------------------------------------------------------------------------|---|
| Site<br>Ickleford Mill                                                                                                                                                                                                                                       |              |                                            |          |                  |           | WS106           |        |                                                                                                                                  |   |
| Job No<br>CRM.1027.189                                                                                                                                                                                                                                       |              | Dates<br>Start 22-07-24<br>Finish 22-07-24 |          | Ground Level (m) |           |                 |        | Co-Ordinates                                                                                                                     |   |
| Client<br>Hill Partnerships                                                                                                                                                                                                                                  |              |                                            |          |                  |           | Sheet<br>1 of 1 |        |                                                                                                                                  |   |
| Well                                                                                                                                                                                                                                                         | Water Levels | Samples & In Situ Testing                  |          |                  | Depth (m) | Level (mAD)     | Legend | Stratum Description                                                                                                              |   |
|                                                                                                                                                                                                                                                              |              | Depth (m)                                  | No/Type  | Results          |           |                 |        |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                              |              | 0.50                                       | B<br>ES  |                  | 2.00      |                 |        | MADE GROUND: Grass over brown slightly gravelly clayey medium SAND. Gravel is angular to subangular concrete and flint.          | 0 |
|                                                                                                                                                                                                                                                              |              | 1.00 - 1.45                                | SPT      | N 10             |           |                 |        | 0.80 - 2.00 Becoming gravelly.<br>1.00 - 1.45 Firm, medium strength.                                                             | 1 |
|                                                                                                                                                                                                                                                              |              | 2.00 - 2.45                                | SPT      | N 7              |           |                 |        | 2.00 - 2.45 Soft, low strength.<br>Soft dark brown slightly gravelly sandy silty CLAY. Gravel is angular medium flint and chalk. | 2 |
|                                                                                                                                                                                                                                                              |              | 3.00<br>3.00 - 3.45                        | D<br>SPT | N 4              |           |                 |        | 3.00 - 3.45 Soft, very low strength.<br>3.00 - 4.00 Borehole collapsed after dynamic sampling.                                   | 3 |
|                                                                                                                                                                                                                                                              |              |                                            |          |                  |           |                 |        |                                                                                                                                  |   |
|                                                                                                                                                                                                                                                              |              |                                            |          |                  | 4.00      |                 |        | Borehole completed at 4.00m.                                                                                                     | 4 |
|                                                                                                                                                                                                                                                              |              |                                            |          |                  |           |                 |        |                                                                                                                                  | 5 |
|                                                                                                                                                                                                                                                              |              |                                            |          |                  |           |                 |        |                                                                                                                                  | 6 |
|                                                                                                                                                                                                                                                              |              |                                            |          |                  |           |                 |        |                                                                                                                                  | 7 |
|                                                                                                                                                                                                                                                              |              |                                            |          |                  |           |                 |        |                                                                                                                                  | 8 |
| General Remarks<br>EQUIPMENT: Premier 110 window sampling rig.<br>METHOD: Dynamic sampled 0.00m-4.00mbgl.<br>CASING: No casing used.<br>REMARKS: Groundwater encountered at 3.00mbgl.<br>BACKFILL: On completion, the borehole was backfilled with arisings. |              |                                            |          |                  |           |                 |        |                                                                                                                                  |   |
| Groundwater<br>Date: 22/07/24<br>Strike Depth (m): 3.00<br>Casing Depth (m):<br>Depth After Observation (m):                                                                                                                                                 |              |                                            |          |                  |           |                 |        |                                                                                                                                  |   |
| All dimensions in metres<br>Scale 1:50                                                                                                                                                                                                                       |              |                                            |          |                  |           |                 |        | Logged By<br>ES                                                                                                                  |   |

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|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS107           |
| Job No<br>CRM.1027.189      | Dates<br>Start 23-07-24<br>Finish 23-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well                                                                              | Water Levels                                                                      | Samples & In Situ Testing                  |                     |         | Depth (m) | Level (mAD) | Legend                                                                            | Stratum Description                                                                                                                                             |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------|---------------------|---------|-----------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                   |                                                                                   | Depth (m)                                  | No/Type             | Results |           |             |                                                                                   |                                                                                                                                                                 |   |
|  |  |                                            |                     |         | 0.35      |             |  | MADE GROUND: CONCRETE.                                                                                                                                          | 0 |
|                                                                                   |                                                                                   | 0.65                                       | B                   |         | 0.60      |             |  | MADE GROUND: Crushed BRICK & CONCRETE.                                                                                                                          |   |
|                                                                                   |                                                                                   | 1.00 - 1.45                                | SPT                 | N 4     |           |             |  | MADE GROUND: Soft brown sandy gravelly CLAY. Sand is coarse. Gravel is angular to subangular concrete, brick and flint.<br>1.00 - 1.45 Soft, very low strength. | 1 |
|                                                                                   |                                                                                   | 1.90<br>2.00 - 2.45<br>2.10 - 2.80<br>2.30 | ES<br>SPT<br>B<br>D | N 8     |           |             |  | 2.00 - 2.45 Soft to firm, low strength.                                                                                                                         | 2 |
|                                                                                   |                                                                                   | 3.00 - 3.45                                | SPT                 | N 11    | 2.80      |             |  | Brown clayey gravelly coarse SAND. Gravel is angular medium flint.<br>3.00 - 3.45 Medium dense.<br>3.00 - 6.00 Borehole collapsed.                              | 3 |
|                                                                                   |                                                                                   | 4.00 - 4.45                                | SPT                 | N 2     | 4.00      |             |  | 4.00 - 4.45 Very soft, extremely low strength.<br>Soft dark grey silty CLAY.                                                                                    | 4 |
|                                                                                   |                                                                                   | 5.00<br>5.00 - 5.45                        | D<br>SPT            | N 6     |           |             |  | 5.00 - 5.45 Soft, low strength.                                                                                                                                 | 5 |
|                                                                                   |                                                                                   | 6.00 - 6.45                                | SPT                 | N 8     | 6.00      |             |  | Soft dark grey silty CLAY.<br>6.00 - 6.45 Soft to firm, low strength.                                                                                           | 6 |
|                                                                                   |                                                                                   |                                            |                     |         | 6.45      |             |  | Borehole completed at 6.45m.                                                                                                                                    | 7 |
|                                                                                   |                                                                                   |                                            |                     |         | {8.00}    |             |                                                                                   |                                                                                                                                                                 | 8 |

General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Hydraulic breaker 0.00m-0.35mbgl. Dynamic sampled 0.35m-6.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 3.00mbgl, granular response zone (3.00m-2.00m), bentonite seal 2.00m-0.10m, gas valve and flush steel cover 0.10m-0.00m bgl.

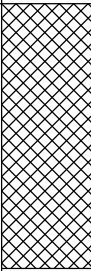
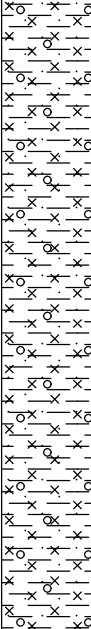
|                                        |                  |                          |                  |                             |
|----------------------------------------|------------------|--------------------------|------------------|-----------------------------|
| Groundwater                            | Date<br>23/07/24 | Strike Depth (m)<br>3.00 | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |                  |                          |                  | Logged By<br>ES             |

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|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS108           |
| Job No<br>CRM.1027.189      | Dates<br>Start 22-07-24<br>Finish 22-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well                                                                              | Water Levels                                                                      | Samples & In Situ Testing |          |         | Depth (m) | Level (mAD) | Legend                                                                             | Stratum Description                                                                                                       |   |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|----------|---------|-----------|-------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---|--|
|                                                                                   |                                                                                   | Depth (m)                 | No/Type  | Results |           |             |                                                                                    |                                                                                                                           |   |  |
|  |  | 0.50                      | B        |         | 1.75      |             |   | MADE GROUND: Grass over brown slightly gravelly clayey medium SAND. Gravel is angular to subangular concrete and flint.   | 0 |  |
|                                                                                   |                                                                                   | 0.80                      | ES       |         |           |             |                                                                                    |                                                                                                                           |   |  |
|                                                                                   |                                                                                   | 1.00 - 1.45               | SPT      | N 8     |           |             |                                                                                    | 0.80 - 1.75 Becoming gravelly.<br>1.00 - 1.45 Loose.                                                                      | 1 |  |
|                                                                                   |                                                                                   | 2.00 - 2.45               | SPT      | N 11    | 6.00      |             |  | Soft dark brown slightly gravelly sandy silty CLAY. Gravel is angular medium flint.<br>2.00 - 2.45 Firm, medium strength. | 2 |  |
|                                                                                   |                                                                                   | 3.00 - 3.45               | SPT      | N 8     |           |             |                                                                                    | 3.00 - 3.45 Soft to firm, low strength.                                                                                   | 3 |  |
|                                                                                   |                                                                                   | 4.00<br>4.00 - 4.45       | D<br>SPT | N 12    |           |             |                                                                                    | 4.00 - 4.45 Firm, medium strength.                                                                                        | 4 |  |
|                                                                                   |                                                                                   | 5.00 - 5.45               | SPT      | N 14    |           |             |                                                                                    | 4.70 - 5.00 Becoming gravelly.<br>5.00 - 5.45 Firm, medium strength.                                                      | 5 |  |
|                                                                                   |                                                                                   | 6.00<br>6.00 - 6.45       | D<br>SPT | N 14    |           |             |                                                                                    | Soft dark brown slightly gravelly sandy silty CLAY. Gravel is angular medium flint.                                       | 6 |  |
|                                                                                   |                                                                                   |                           |          |         | 6.45      |             |                                                                                    | 6.00 - 6.45 Firm, medium strength.                                                                                        |   |  |
|                                                                                   |                                                                                   |                           |          |         | {8.00}    |             |                                                                                    | Borehole completed at 6.45m.                                                                                              | 7 |  |
|                                                                                   |                                                                                   |                           |          |         |           |             |                                                                                    | 8                                                                                                                         |   |  |

General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Dynamic sampled 0.00m-6.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00m bgl.  
BACKFILL: On completion, the borehole was backfilled with arisings.

|                                        |                  |                          |                  |                             |
|----------------------------------------|------------------|--------------------------|------------------|-----------------------------|
| Groundwater                            | Date<br>22/07/24 | Strike Depth (m)<br>3.00 | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |                  |                          |                  | Logged By<br>ES             |

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|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS109           |
| Job No<br>CRM.1027.189      | Dates<br>Start 23-07-24<br>Finish 23-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well | Water Levels | Samples & In Situ Testing  |          |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                              |   |
|------|--------------|----------------------------|----------|---------|-----------|-------------|--------|------------------------------------------------------------------------------------------------------------------|---|
|      |              | Depth (m)                  | No/Type  | Results |           |             |        |                                                                                                                  |   |
|      |              | 0.50                       | B<br>ES  |         | 0.70      |             |        | MADE GROUND: Grass over soft brown sandy gravelly CLAY. Gravel is angular coarse brick.                          | 0 |
|      |              | 1.00 - 1.45                | SPT      | N 0     |           |             |        | Greyish brown clayey SILT.<br>1.00 - 1.45 Very soft, extremely low strength.                                     | 1 |
|      |              | 2.00 - 2.45                | SPT      | N 4     | 2.70      |             |        | 2.00 - 2.45 Soft, very low strength.                                                                             | 2 |
|      |              | 2.70 - 4.00                | B        |         |           |             |        | Greyish brown clayey gravelly SILT Gravel is angular medium to fine flint.<br>3.00 - 3.45 Firm, medium strength. | 3 |
|      |              | 3.00 - 3.45                | SPT      | N 10    |           |             |        |                                                                                                                  |   |
|      |              | 4.00 - 5.90<br>4.00 - 4.45 | B<br>SPT | N 11    |           |             |        | 4.00 - 4.45 Firm, medium strength.<br>4.00 - 6.00 Borehole collapsed.<br>Greyish brown clayey SILT.              | 4 |
|      |              | 5.00 - 5.45                | SPT      | N 14    | 6.00      |             |        | 5.00 - 5.45 Firm, medium strength.                                                                               | 5 |
|      |              | 6.00                       | D        | N 16    |           |             |        | Greyish brown clayey SILT.<br>6.00 - 6.45 Stiff, medium strength.                                                | 6 |
|      |              | 6.00 - 6.45                | SPT      |         |           |             |        |                                                                                                                  |   |
|      |              |                            |          |         | 6.45      |             |        | Borehole completed at 6.45m.                                                                                     | 7 |
|      |              |                            |          |         | {8.00}    |             |        |                                                                                                                  | 8 |

#### General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Dynamic sampled 0.00m-6.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 4.00m bgl, granular response zone (4.00m-2.00m), bentonite seal 2.00m-0.10m, gas valve and flush steel cover 0.10m-0.00m bgl.

#### Groundwater

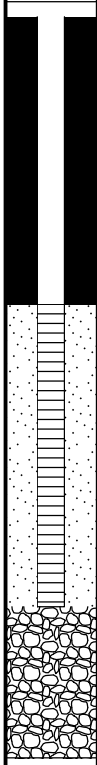
|          |                  |                  |                             |
|----------|------------------|------------------|-----------------------------|
| Date     | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| 23/07/24 | 3.00             |                  |                             |

All dimensions in metres  
Scale 1:50

Logged By  
ES

1.0 ENZYGO WS LOG CRM.1027.189 ICKLEFORD.GPJ GINT STD AGS 3.1 ENZYGO.GPJ 18/24

|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS110           |
| Job No<br>CRM.1027.189      | Dates<br>Start 23-07-24<br>Finish 23-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

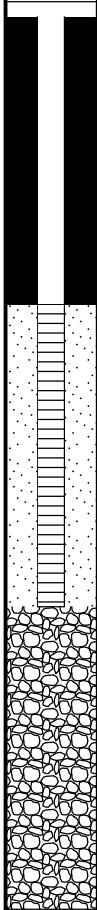
| Well                                                                              | Water Levels                                                                      | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend                                                                              | Stratum Description                                                                                       |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|---------|---------|-----------|-------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---|
|                                                                                   |                                                                                   | Depth (m)                 | No/Type | Results |           |             |                                                                                     |                                                                                                           |   |
|  |  |                           |         |         | 0.20      |             |    | MADE GROUND: CONCRETE.                                                                                    | 0 |
|                                                                                   |                                                                                   |                           |         |         | 0.25      |             |    | MADE GROUND: Type1 MOT.                                                                                   |   |
|                                                                                   |                                                                                   | 0.50                      | B       |         | 0.60      |             |    | MADE GROUND: Crushed BRICK and CONCRETE.                                                                  |   |
|                                                                                   |                                                                                   | 0.70                      | ES      |         | 0.80      |             |    | Firm greenish brown gravelly sandy CLAY. Gravel is angular to subrounded flint.                           | 1 |
|                                                                                   |                                                                                   | 0.80 - 1.50               | B       |         |           |             |    | Orange clayey SAND & GRAVEL. Sand is coarse. Gravel is angular to subangular flint.                       |   |
|                                                                                   |                                                                                   | 1.00 - 1.45               | SPT     | N 4     |           |             |    | 1.00 - 1.45 Loose.                                                                                        |   |
|                                                                                   |                                                                                   |                           |         |         | 1.50      |             |    | Firm brown slightly sandy CLAY.                                                                           |   |
|                                                                                   |                                                                                   | 2.00 - 2.45               | SPT     | N 8     | 2.00      |             |    | 2.00 - 2.45 Soft to firm, low strength.                                                                   | 2 |
|                                                                                   |                                                                                   |                           |         |         |           |             |    | Soft dark grey slightly gravelly silty CLAY. Gravel is angular to rounded fine to coarse flint and chalk. |   |
|                                                                                   |                                                                                   | 3.00 - 3.45               | SPT     | N 11    |           |             |    | 3.00 - 3.45 Firm, medium strength.                                                                        | 3 |
|                                                                                   |                                                                                   |                           |         |         |           |             |    | 3.20 - 3.30 Becoming sandy.                                                                               |   |
|                                                                                   |                                                                                   | 4.00 - 4.45               | SPT     | N 12    |           |             |   | 4.00 - 4.45 Firm, medium strength.                                                                        | 4 |
|                                                                                   |                                                                                   |                           |         |         |           |             |  | 4.00 - 5.00 Borehole collapsed.                                                                           |   |
|                                                                                   |                                                                                   | 5.00                      | D       | N 50    | 5.00      |             |  | Soft dark grey slightly gravelly silty CLAY. Gravel is angular to rounded fine to coarse flint and chalk. | 5 |
|                                                                                   |                                                                                   | 5.00 - 5.45               | SPT     |         | 5.45      |             |  | 5.00 - 5.45 Very stiff, very high strength. Refused at 5.45mbgl.                                          |   |
|                                                                                   |                                                                                   |                           |         |         | {8.00}    |             |                                                                                     | Borehole completed at 5.45m.                                                                              | 6 |

#### General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Hydraulic breaker 0.00m-0.20mbgl. Dynamic sampled 0.20m-5.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 4.00mbgl, granular response zone (4.00m-2.00m), bentonite seal 2.00m-0.10m, gas valve and flush steel cover 0.10m-0.00m bgl.

| Groundwater                            | Date     | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|----------------------------------------|----------|------------------|------------------|-----------------------------|
|                                        | 23/07/24 | 3.00             |                  |                             |
| All dimensions in metres<br>Scale 1:50 |          |                  |                  | Logged By<br>ES             |

|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | <b>WS111</b>    |
| Job No<br>CRM.1027.189      | Dates<br>Start 23-07-24<br>Finish 23-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well                                                                              | Water Levels                                                                      | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend                                                                            | Stratum Description                                                                                 |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|---------|---------|-----------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---|
|                                                                                   |                                                                                   | Depth (m)                 | No/Type | Results |           |             |                                                                                   |                                                                                                     |   |
|  |  |                           |         |         | 0.15      |             |  | MADE GROUND: CONCRETE.                                                                              | 0 |
|                                                                                   |                                                                                   |                           |         |         | 0.30      |             |  | MADE GROUND: Orange BALLAST.                                                                        |   |
|                                                                                   |                                                                                   | 0.50                      | B       |         | 0.70      |             |  | MADE GROUND: Grey and red gravelly coarse SAND. Gravel is angular to subangular concrete and brick. |   |
|                                                                                   |                                                                                   | 1.00                      | ES      | N 4     |           |             |  | Dark grey silty CLAY.                                                                               | 1 |
|                                                                                   |                                                                                   | 1.00 - 1.45               | SPT     |         | 1.20      |             |  | 1.00 - 1.45 Soft, very low strength.                                                                |   |
|                                                                                   |                                                                                   | 1.10                      | D       |         |           |             |  | Soft brown slightly gravelly sandy CLAY. Gravel is angular medium flint.                            |   |
|                                                                                   |                                                                                   | 2.00 - 2.45               | SPT     | N 11    |           |             |  | 2.00 - 2.45 Firm, medium strength.                                                                  | 2 |
|                                                                                   |                                                                                   | 3.00                      | D       | N 8     | 3.00      |             |  | 3.00 - 3.45 Soft to firm, low strength.                                                             | 3 |
|                                                                                   |                                                                                   | 3.00 - 3.45               | SPT     |         |           |             |  | Soft dark grey silty CLAY.                                                                          |   |
|                                                                                   |                                                                                   | 4.00 - 4.45               | SPT     | N 8     |           |             |  | 4.00 - 4.45 Soft to firm, low strength.                                                             | 4 |
|                                                                                   |                                                                                   |                           |         |         |           |             |  | 4.00 - 6.00 Borehole collapsed.                                                                     |   |
|                                                                                   |                                                                                   | 5.00 - 5.45               | SPT     | N 7     |           |             |  | 5.00 - 5.45 Soft, low strength.                                                                     | 5 |
|                                                                                   |                                                                                   | 6.00                      | D       | N 14    | 6.00      |             |  | Soft dark grey silty CLAY.                                                                          | 6 |
|                                                                                   |                                                                                   | 6.00 - 6.45               | SPT     |         | 6.45      |             |  | 6.00 - 6.45 Firm, medium strength.                                                                  |   |
|                                                                                   |                                                                                   |                           |         |         |           |             |                                                                                   | Borehole completed at 6.45m.                                                                        | 7 |
|                                                                                   |                                                                                   |                           |         |         | {8.00}    |             |                                                                                   |                                                                                                     | 8 |

#### General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Hydraulic breaker 0.00m-0.15mbgl. Dynamic sampled 0.15m-6.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 3.00mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 4.00mbgl, granular response zone (4.00m-2.00m), bentonite seal 2.00m-0.10m, gas valve and flush steel cover 0.10m-0.00m bgl.

|                                        |                  |                          |                  |                             |
|----------------------------------------|------------------|--------------------------|------------------|-----------------------------|
| Groundwater                            | Date<br>23/07/24 | Strike Depth (m)<br>3.00 | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |                  |                          |                  | Logged By<br>ES             |



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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS112           |
| Job No<br>CRM.1027.189      | Dates<br>Start 24-07-24<br>Finish 24-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                 |   |
|------|--------------|---------------------------|---------|---------|-----------|-------------|--------|-----------------------------------------------------------------------------------------------------|---|
|      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                                                                     |   |
|      |              | 0.10                      |         |         | 0.10      |             |        | MADE GROUND: CONCRETE blocks.                                                                       | 0 |
|      |              | 0.40                      | ES      |         | 0.50      |             |        | MADE GROUND: BALLAST.                                                                               |   |
|      |              | 0.50                      | B       |         |           |             |        |                                                                                                     |   |
|      |              | 1.00 - 1.90               | B       | N 4     | 0.95      |             |        | MADE GROUND: Brown gravelly clayey medium SAND. Gravel is angular to subangular concrete and flint. | 1 |
|      |              | 1.00 - 1.45               | SPT     |         |           |             |        | Soft brown sandy CLAY.<br>1.00 - 1.45 Soft, very low strength.                                      |   |
|      |              | 2.00                      | D       | N 50    | 1.90      |             |        | Orange SAND & GRAVEL. Sand is coarse. Gravel is angular to subangular coarse flint.                 | 2 |
|      |              | 2.00 - 2.45               | SPT     |         | 2.00      |             |        | Orange SAND & GRAVEL. Sand is coarse. Gravel is angular to subangular coarse flint.                 |   |
|      |              |                           |         |         | 2.45      |             |        | 2.00 - 2.45 Very dense. Refused at 2.45mbgl.                                                        |   |
|      |              |                           |         |         |           |             |        | Borehole completed at 2.45m.                                                                        | 3 |
|      |              |                           |         |         |           |             |        |                                                                                                     | 4 |
|      |              |                           |         |         |           |             |        |                                                                                                     | 5 |
|      |              |                           |         |         |           |             |        |                                                                                                     | 6 |
|      |              |                           |         |         |           |             |        |                                                                                                     | 7 |
|      |              |                           |         |         | {8.00}    |             |        |                                                                                                     | 8 |

#### General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Dynamic sampled 0.00m-2.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater not encountered.  
BACKFILL: On completion, the borehole was backfilled with arisings.

|                                        |      |                  |                  |                             |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |      |                  |                  | Logged By<br>ES             |



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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS113           |
| Job No<br>CRM.1027.189      | Dates<br>Start 24-07-24<br>Finish 24-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                      |   |
|------|--------------|---------------------------|---------|---------|-----------|-------------|--------|----------------------------------------------------------------------------------------------------------|---|
|      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                                                                          |   |
|      |              | 0.20                      | ES      | N 15    | 0.30      |             |        | MADE GROUND: Grass over cemented type 1 MOT.                                                             | 0 |
|      |              | 0.50                      | B       |         | 0.60      |             |        | MADE GROUND: Brown clayey gravelly SAND. Gravel is angular to rounded fine to coarse flint and concrete. |   |
|      |              | 1.00                      | D       |         |           |             |        | Stiff brown gravelly sandy CLAY. Gravel is angular to subangular flint                                   | 1 |
|      |              | 1.00 - 1.45               | SPT     | N 50    |           |             |        | 1.00 - 1.45 Firm to stiff, medium strength.                                                              |   |
|      |              | 2.00                      | D       |         | 2.00      |             |        | Stiff brown gravelly sandy CLAY. Gravel is angular to subangular flint                                   | 2 |
|      |              | 2.00 - 2.45               | SPT     |         | 2.45      |             |        | 2.00 - 2.45 Very stiff, very high strength. Refused at 2.45mbgl.                                         |   |
|      |              |                           |         |         |           |             |        | Borehole completed at 2.45m.                                                                             |   |
|      |              |                           |         |         |           |             |        |                                                                                                          | 3 |
|      |              |                           |         |         |           |             |        |                                                                                                          | 4 |
|      |              |                           |         |         |           |             |        |                                                                                                          | 5 |
|      |              |                           |         |         |           |             |        |                                                                                                          | 6 |
|      |              |                           |         |         |           |             |        |                                                                                                          | 7 |
|      |              |                           |         |         | {8.00}    |             |        |                                                                                                          | 8 |

General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Dynamic sampled 0.00m-2.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater not encountered.  
BACKFILL: On completion, the borehole was backfilled with arisings.

|                                        |      |                  |                  |                             |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |      |                  |                  | Logged By<br>ES             |

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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS114           |
| Job No<br>CRM.1027.189      | Dates<br>Start 24-07-24<br>Finish 24-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                                     |   |
|------|--------------|---------------------------|---------|---------|-----------|-------------|--------|-------------------------------------------------------------------------------------------------------------------------|---|
|      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                                                                                         |   |
|      |              | 0.40                      | ES      |         | 0.30      |             |        | MADE GROUND: Grass over brown slightly gravelly clayey medium SAND. Gravel is angular to subangular concrete and flint. | 0 |
|      |              | 0.50                      | B       |         |           |             |        | Brown clayey sandy gravelly medium SAND. Gravel is subrounded to rounded fine to coarse flint                           |   |
|      |              | 0.80                      | D       |         |           |             |        | Brown clayey sandy gravelly medium SAND. Gravel is subrounded to rounded fine to coarse flint.                          | 1 |
|      |              | 1.00 - 1.38               | SPT     | N 50    | 1.00      |             |        | 1.00 - 1.38 Very dense. Refused at 1.38mbgl.                                                                            |   |
|      |              |                           |         |         | 1.38      |             |        | Borehole completed at 1.38m.                                                                                            |   |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 2 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 3 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 4 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 5 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 6 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 7 |
|      |              |                           |         |         | {8.00}    |             |        |                                                                                                                         | 8 |

General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Dynamic sampled 0.00m-1.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater not encountered.  
BACKFILL: On completion, the borehole was backfilled with arisings.

|                                        |      |                  |                  |                             |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |      |                  |                  | Logged By<br>ES             |



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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | WS115           |
| Job No<br>CRM.1027.189      | Dates<br>Start 24-07-24<br>Finish 24-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                                     |   |
|------|--------------|---------------------------|---------|---------|-----------|-------------|--------|-------------------------------------------------------------------------------------------------------------------------|---|
|      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                                                                                         |   |
|      |              | 0.30                      | ES      |         |           |             |        | MADE GROUND: Grass over brown slightly gravelly clayey medium SAND. Gravel is angular to subangular concrete and flint. | 0 |
|      |              | 0.50                      | B       |         | 0.50      |             |        |                                                                                                                         |   |
|      |              | 0.80 - 1.00               | D       |         | 0.80      |             |        | Brown slightly gravelly clayey medium SAND. Gravel is angular to subangular flint.                                      |   |
|      |              | 1.00 - 1.39               | SPT     | N 50    | 1.00      |             |        | Orange SAND AND GRAVEL Sand is coarse. Gravel is angular fine to coarse flint.                                          | 1 |
|      |              |                           |         |         | 1.39      |             |        | Orange SAND AND GRAVEL Sand is coarse. Gravel is angular fine to coarse flint.                                          |   |
|      |              |                           |         |         |           |             |        | 1.00 - 1.39 Very dense. Refused at 1.39mbgl.                                                                            |   |
|      |              |                           |         |         |           |             |        | Borehole completed at 1.39m.                                                                                            | 2 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 3 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 4 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 5 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 6 |
|      |              |                           |         |         |           |             |        |                                                                                                                         | 7 |
|      |              |                           |         |         | {8.00}    |             |        |                                                                                                                         | 8 |

General Remarks

EQUIPMENT: Premier 110 window sampling rig.  
METHOD: Dynamic sampled 0.00m-1.00mbgl.  
CASING: No casing used.  
REMARKS: Groundwater not encountered.  
BACKFILL: On completion, the borehole was backfilled with arisings.

|                                        |      |                  |                  |                             |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |      |                  |                  | Logged By<br>ES             |

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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | BH01            |
| Job No<br>CRM.1027.189      | Dates<br>Start 18-07-24<br>Finish 18-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 3 |

| Well                 | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                                                                                                                                       |   |
|----------------------|--------------|---------------------------|---------|---------|-----------|-------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                                                                                                                                                                                           |   |
|                      |              |                           |         |         | 0.30      |             |        | MADE GROUND: REINFORCED CONCRETE.                                                                                                                                                                                         | 0 |
|                      |              |                           |         |         |           |             |        | MADE GROUND: Brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subrounded fine to coarse concrete, brick, and charcoal.                                                          | 1 |
|                      |              | 1.20 - 1.65               | D SPT   | N 22    | 1.30      |             |        |                                                                                                                                                                                                                           |   |
|                      |              | 1.75                      | D       |         |           |             |        | Orange brown clayey sandy GRAVEL. Sand is medium to coarse. Gravel is angular and rounded fine to coarse flint.                                                                                                           |   |
|                      |              | 2.00 - 2.45               | D SPT   | N 14    | 2.00      |             |        |                                                                                                                                                                                                                           | 2 |
|                      |              | 2.75                      | D       |         |           |             |        | 2.00 - 2.45 Firm, medium strength. Grey brown mottled grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular and rounded to subrounded fine to coarse chalk and flint. |   |
|                      |              | 3.00 - 3.45               | D SPT   | N 16    |           |             |        | 3.00 - 3.45 Stiff, medium strength.                                                                                                                                                                                       | 3 |
|                      |              | 3.75                      | D       |         |           |             |        |                                                                                                                                                                                                                           |   |
|                      |              | 4.00 - 4.45               | SPT     | N 31    |           |             |        | 4.00 - 4.45 Very stiff, high strength.                                                                                                                                                                                    | 4 |
|                      |              | 4.75                      | D       |         |           |             |        |                                                                                                                                                                                                                           |   |
|                      |              | 5.00 - 5.45               | U100    |         |           |             |        |                                                                                                                                                                                                                           | 5 |
|                      |              | 6.00                      | D       |         |           |             |        |                                                                                                                                                                                                                           | 6 |
|                      |              | 6.50 - 6.95               | D SPT   | N 23    |           |             |        | 6.50 - 6.95 Stiff, high strength.                                                                                                                                                                                         | 7 |
|                      |              | 7.50                      | D       |         |           |             |        |                                                                                                                                                                                                                           |   |
|                      |              | 8.00 - 8.45               | U100    |         |           | {8.00}      |        |                                                                                                                                                                                                                           | 8 |
| Continued next sheet |              |                           |         |         |           |             |        |                                                                                                                                                                                                                           |   |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.20mbgl. Cable percussive drilled 1.20m-20.00mbgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered from 13.50mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 17.00mbgl, granular response zone (17.00m-14.00m), bentonite seal (14.00m-11.00m), arisings (11.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

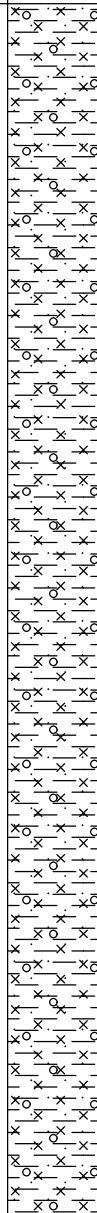
| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| All dimensions in metres<br>Scale 1:50 |      |                  |                  |                             |
|                                        |      |                  |                  | Logged By<br>SB             |

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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | BH01            |
| Job No<br>CRM.1027.189      | Dates<br>Start 18-07-24<br>Finish 18-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>2 of 3 |

| Well                                                                              | Water Levels                                                                        | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend                                                                             | Stratum Description                             |    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|---------|---------|-----------|-------------|------------------------------------------------------------------------------------|-------------------------------------------------|----|
|                                                                                   |                                                                                     | Depth (m)                 | No/Type | Results |           |             |                                                                                    |                                                 |    |
|  |  | 9.00                      | D       |         |           |             |  | 9.00 - 9.45 Stiff to very stiff, high strength. | 8  |
|                                                                                   |                                                                                     | 9.50 - 9.95               | D SPT   | N 30    |           |             |                                                                                    |                                                 | 9  |
|                                                                                   |                                                                                     | 10.50                     | D       |         |           |             |                                                                                    |                                                 | 10 |
|                                                                                   |                                                                                     | 11.00 - 11.45             | U100    |         |           |             |                                                                                    |                                                 | 11 |
|                                                                                   |                                                                                     | 12.00                     | D       |         |           |             |                                                                                    |                                                 | 12 |
|                                                                                   |                                                                                     | 12.50 - 12.95             | D SPT   | N 35    |           |             |                                                                                    | 12.50 - 12.95 Very stiff, high strength.        | 13 |
|                                                                                   |                                                                                     | 13.50                     | D       |         |           |             |                                                                                    |                                                 | 14 |
|                                                                                   |                                                                                     | 14.00 - 14.45             | D SPT   | N 44    |           |             |                                                                                    |                                                 | 15 |
|                                                                                   |                                                                                     | 15.00                     | D       |         |           |             |                                                                                    |                                                 | 16 |
|                                                                                   |                                                                                     | 15.50 - 15.95             | D SPT   | N 49    |           |             |                                                                                    |                                                 | 17 |
|                                                                                   |                                                                                     |                           |         |         | {16.00}   |             | Continued next sheet                                                               |                                                 |    |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.20mbgl. Cable percussive drilled 1.20m-20.00mbgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered from 13.50mbgl.  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 17.00mbgl, granular response zone (17.00m-14.00m), bentonite seal (14.00m-11.00m), arisings (11.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

|                                        |                  |                           |                  |                             |
|----------------------------------------|------------------|---------------------------|------------------|-----------------------------|
| Groundwater                            | Date<br>18/07/24 | Strike Depth (m)<br>13.50 | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |                  |                           |                  | Logged By<br>SB             |

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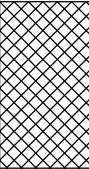
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                            |          |                  |                    |                             |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------|----------|------------------|--------------------|-----------------------------|--------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Site<br>Ickleford Mill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                            |          |                  |                    | BH01                        |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
| Job No<br>CRM.1027.189                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | Dates<br>Start 18-07-24<br>Finish 18-07-24 |          | Ground Level (m) |                    |                             |        | Co-Ordinates                                           |                                                                                                                                                                                                                                                                                                                  |                            |
| Client<br>Hill Partnerships                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |          |                  |                    | Sheet<br>3 of 3             |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
| Well                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Water Levels | Samples & In Situ Testing                  |          |                  | Depth (m)          | Level (mAD)                 | Legend | Stratum Description                                    |                                                                                                                                                                                                                                                                                                                  |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | Depth (m)                                  | No/Type  | Results          |                    |                             |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | 16.50                                      | D        |                  |                    |                             |        | 17.00 - 17.45 Very stiff, very high strength. Refused. | 16                                                                                                                                                                                                                                                                                                               |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | 17.00 - 17.45                              | D<br>SPT | N 53             |                    |                             |        |                                                        | 17                                                                                                                                                                                                                                                                                                               |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | 18.00                                      | D        |                  |                    |                             |        |                                                        | 18                                                                                                                                                                                                                                                                                                               |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | 18.50 - 18.95                              | D<br>SPT | N 110            |                    |                             |        |                                                        | 18.50 - 18.95 Very stiff, very high strength. Refused.                                                                                                                                                                                                                                                           | 19                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | 19.50                                      | D        |                  |                    |                             |        |                                                        | 20                                                                                                                                                                                                                                                                                                               |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | 20.00<br>20.00 - 20.45                     | D<br>SPT | N 80             | 20.00<br><br>20.45 |                             |        |                                                        | Grey brown mottled grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular and rounded to subrounded fine to coarse chalk and flint. Becoming dark grey with depth.<br>20.00 - 20.45 Very stiff, very high strength. Refused.<br>Borehole completed at 20.45m. | 20<br>21<br>22<br>23<br>24 |
| {24.00}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                            |          |                  |                    |                             |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
| General Remarks<br>EQUIPMENT: Pilcon cable percussion rig.<br>METHOD: Hand dug inspection pit 0.00m-1.20mbgl. Cable percussive drilled 1.20m-20.00mbgl.<br>CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.<br>REMARKS: Groundwater seepage encountered from 13.50mbgl.<br>BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 17.00mbgl, granular response zone (17.00m-14.00m), bentonite seal (14.00m-11.00m), arisings (11.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m). |              |                                            |          |                  |                    |                             |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
| Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |          |                  |                    |                             |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | Strike Depth (m)                           |          | Casing Depth (m) |                    | Depth After Observation (m) |        |                                                        |                                                                                                                                                                                                                                                                                                                  |                            |
| All dimensions in metres<br>Scale 1:50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                            |          |                  |                    |                             |        | Logged By<br>SB                                        |                                                                                                                                                                                                                                                                                                                  |                            |

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|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | BH02            |
| Job No<br>CRM.1027.189      | Dates<br>Start 18-07-24<br>Finish 18-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 1 |

| Well                                                                             | Water Levels                                                                      | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend                                                                            | Stratum Description                                                                                                                                                                    |   |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|---------|---------|-----------|-------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                  |                                                                                   | Depth (m)                 | No/Type | Results |           |             |                                                                                   |                                                                                                                                                                                        |   |
|  |  | 0.00 - 0.30               | ES      |         | 1.10      |             |  | MADE GROUND: Grass over dark brown slightly sandy slightly gravelly CLAY with rootlets. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse brick and concrete. | 0 |
|                                                                                  |                                                                                   | 0.30                      | D       |         |           |             |                                                                                   |                                                                                                                                                                                        |   |
|                                                                                  |                                                                                   | 0.50                      | B       |         |           |             |                                                                                   |                                                                                                                                                                                        | 1 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   | Concrete obstruction encountered. Borehole terminated. Borehole completed at 1.10m.                                                                                                    | 2 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                                                                        | 3 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                                                                        | 4 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                                                                        | 5 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                                                                        | 6 |
|                                                                                  |                                                                                   |                           |         |         |           |             |                                                                                   |                                                                                                                                                                                        | 7 |
|                                                                                  |                                                                                   |                           |         |         | {8.00}    |             |                                                                                   |                                                                                                                                                                                        | 8 |

General Remarks  
EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.10mbgl.  
CASING: No casing used.  
REMARKS: Groundwater encountered at 0.90mbgl, rose to 0.70mbgl.  
BACKFILL: On completion, the borehole was backfilled with arisings.

|             |          |                  |                  |                             |
|-------------|----------|------------------|------------------|-----------------------------|
| Groundwater | Date     | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|             | 18/07/24 | 0.90             |                  | 0.70                        |

|                                        |                 |
|----------------------------------------|-----------------|
| All dimensions in metres<br>Scale 1:50 | Logged By<br>SB |
|----------------------------------------|-----------------|

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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | BH02A           |
| Job No<br>CRM.1027.189      | Dates<br>Start 18-07-24<br>Finish 19-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 3 |

| Well | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                                                                                            |   |
|------|--------------|---------------------------|---------|---------|-----------|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                                                                                                                                                |   |
|      |              | 0.00 - 0.30               | ES      |         | 1.00      |             |        | MADE GROUND: Grass over dark brown slightly sandy slightly gravelly CLAY with rootlets. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse rare brick. | 0 |
|      |              | 0.30                      | D       |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 0.50                      | B       |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 1.00 - 1.45               | D       | N 7     |           |             |        | 1.00 - 1.45 Soft, low strength.                                                                                                                                                | 1 |
|      |              |                           | SPT     |         |           |             |        | Orange brown mottled grey and orange slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is rounded and subrounded fine to coarse chalk.               |   |
|      |              | 1.75                      | D       |         |           |             |        | 1.75 - 3.00 Becoming grey brown mottled grey.                                                                                                                                  |   |
|      |              | 2.00 - 2.45               | U100    |         |           |             |        | 2.00 - 2.45 Stiff, high strength.                                                                                                                                              | 2 |
|      |              | 2.75                      | D       |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 3.00 - 3.45               | D       | N 21    |           |             |        | 3.00 - 3.45 Stiff, high strength.                                                                                                                                              | 3 |
|      |              |                           | SPT     |         |           |             |        | 3.00 - 20.00 Becoming dark grey.                                                                                                                                               |   |
|      |              | 3.75                      | D       |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 4.00 - 4.45               | D       | N 23    |           |             |        | 4.00 - 4.45 Stiff, high strength.                                                                                                                                              | 4 |
|      |              |                           | SPT     |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 4.75                      | D       |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 5.00 - 5.45               | D       | N 26    |           |             |        |                                                                                                                                                                                | 5 |
|      |              |                           | SPT     |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 6.00                      | D       |         |           |             |        |                                                                                                                                                                                | 6 |
|      |              | 6.50 - 6.95               | D       | N 30    |           |             |        | 6.50 - 6.95 Stiff to very stiff, high strength.                                                                                                                                | 7 |
|      |              |                           | SPT     |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 7.50                      | D       |         |           |             |        |                                                                                                                                                                                |   |
|      |              | 8.00 - 8.45               | D       | N 32    |           |             |        |                                                                                                                                                                                | 8 |
|      |              |                           |         |         |           |             |        |                                                                                                                                                                                |   |
|      |              |                           |         |         | {8.00}    |             |        | Continued next sheet                                                                                                                                                           |   |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.00mbgl. Cable percussive drilled 1.00m-20.50mbgl.  
CASING: 15.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered from 8.20m-14.10mbgl.  
Chiselling 15mins (10.70m-10.90m), 20mins (12.10m-12.40m), 15mins (15.70m-15.90m).  
BACKFILL: On completion, the borehole was backfilled with arisings.

#### Groundwater

Date

Strike Depth  
(m)

Casing Depth  
(m)

Depth After  
Observation  
(m)

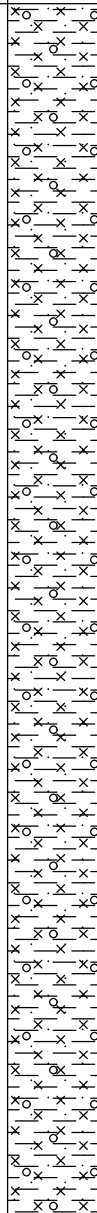
All dimensions in metres  
Scale 1:50

Logged By  
SB



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|                             |                                            |                  |              |                 |
|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | BH02A           |
| Job No<br>CRM.1027.189      | Dates<br>Start 18-07-24<br>Finish 19-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>2 of 3 |

| Well                                                                              | Water Levels                                                                        | Samples & In Situ Testing |          |         | Depth (m) | Level (mAD)          | Legend                                                                             | Stratum Description                             |    |    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|----------|---------|-----------|----------------------|------------------------------------------------------------------------------------|-------------------------------------------------|----|----|
|                                                                                   |                                                                                     | Depth (m)                 | No/Type  | Results |           |                      |                                                                                    |                                                 |    |    |
|  |    |                           | SPT      |         |           |                      |  | 9.00 - 9.45 Stiff to very stiff, high strength. | 8  |    |
|                                                                                   |                                                                                     | 9.00                      | D        |         |           |                      |                                                                                    |                                                 | 9  |    |
|                                                                                   |                                                                                     | 9.50 - 9.95               | D<br>SPT | N 35    |           |                      |                                                                                    |                                                 | 10 |    |
|                                                                                   |                                                                                     | 10.50                     | D        |         |           |                      |                                                                                    |                                                 | 11 |    |
|                                                                                   |                                                                                     | 11.00 - 11.45             | D<br>SPT | N 41    |           |                      |                                                                                    |                                                 | 12 |    |
|                                                                                   |                                                                                     | 12.00                     | D        |         |           |                      |                                                                                    |                                                 | 13 |    |
|                                                                                   |                                                                                     | 12.50 - 12.95             | D<br>SPT | N 47    |           |                      |                                                                                    |                                                 | 14 |    |
|                                                                                   |                                                                                     | 13.50                     | D        |         |           |                      |                                                                                    |                                                 | 15 |    |
|                                                                                   |                                                                                     | 14.00 - 14.45             | D<br>SPT | N 37    |           |                      |                                                                                    |                                                 | 16 |    |
|                                                                                   |                                                                                     | 15.00                     | D        |         |           |                      |                                                                                    |                                                 | 17 |    |
|                                                                                   | 15.50 - 15.95                                                                       | D<br>SPT                  | N 49     |         |           | 18                   |                                                                                    |                                                 |    |    |
|                                                                                   |  |                           |          |         |           |                      |                                                                                    |                                                 |    |    |
| {16.00}                                                                           |                                                                                     |                           |          |         |           | Continued next sheet |                                                                                    |                                                 |    | 19 |

#### General Remarks

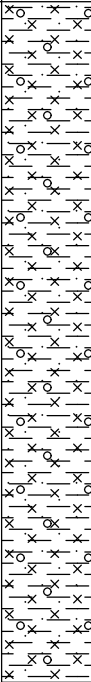
EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.00mbgl. Cable percussive drilled 1.00m-20.50mbgl.  
CASING: 15.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered from 8.20m-14.10mbgl.  
Chiselling 15mins (10.70m-10.90m), 20mins (12.10m-12.40m), 15mins (15.70m-15.90m).  
BACKFILL: On completion, the borehole was backfilled with arisings.

| Groundwater                            |  | Date     | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|----------------------------------------|--|----------|------------------|------------------|-----------------------------|
|                                        |  | 18/07/24 | 8.20             |                  |                             |
|                                        |  | 19/07/24 | 14.10            |                  |                             |
| All dimensions in metres<br>Scale 1:50 |  |          |                  |                  | Logged By<br>SB             |

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|-----------------------------------------------------------------------------------|--------------|--------------------------------------------|---------|------------------|-----------|--------------|------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|----|
| Site<br>Ickleford Mill                                                            |              |                                            |         |                  |           |              | BH02A                                                                              |                                               |                                                        |    |
| Job No<br>CRM.1027.189                                                            |              | Dates<br>Start 18-07-24<br>Finish 19-07-24 |         | Ground Level (m) |           | Co-Ordinates |                                                                                    |                                               |                                                        |    |
| Client<br>Hill Partnerships                                                       |              |                                            |         |                  |           |              | Sheet<br>3 of 3                                                                    |                                               |                                                        |    |
| Well                                                                              | Water Levels | Samples & In Situ Testing                  |         |                  | Depth (m) | Level (mAD)  | Legend                                                                             | Stratum Description                           |                                                        |    |
|                                                                                   |              | Depth (m)                                  | No/Type | Results          |           |              |                                                                                    |                                               |                                                        |    |
|  |              | 16.50                                      | D       |                  | 20.50     |              |  | 17.00 - 17.45 Very stiff, very high strength. | 16                                                     |    |
|                                                                                   |              | 17.00 - 17.45                              | D SPT   | N 41             |           |              |                                                                                    |                                               | 17                                                     |    |
|                                                                                   |              | 18.00                                      | D       |                  |           |              |                                                                                    |                                               | 18                                                     |    |
|                                                                                   |              | 18.50 - 18.95                              | D SPT   | N 54             |           |              |                                                                                    |                                               | 18.50 - 18.95 Very stiff, very high strength. Refused. | 19 |
|                                                                                   |              | 19.50                                      | D       |                  |           |              |                                                                                    |                                               | 20                                                     |    |
|                                                                                   |              | 20.00 - 20.45                              | D SPT   | N 47             |           |              |                                                                                    |                                               | 20.00 - 20.45 Very stiff, very high strength.          | 20 |
|                                                                                   |              |                                            |         |                  | {24.00}   |              |                                                                                    | Borehole completed at 20.50m.                 | 21                                                     |    |
|                                                                                   |              |                                            |         |                  |           |              |                                                                                    | 22                                            |                                                        |    |
|                                                                                   |              |                                            |         |                  |           |              |                                                                                    | 23                                            |                                                        |    |
|                                                                                   |              |                                            |         |                  |           |              |                                                                                    | 24                                            |                                                        |    |
|                                                                                   |              |                                            |         |                  |           |              |                                                                                    |                                               |                                                        |    |

General Remarks  
EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.00mbgl. Cable percussive drilled 1.00m-20.50mbgl.  
CASING: 15.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered from 8.20m-14.10mbgl.  
Chiselling 15mins (10.70m-10.90m), 20mins (12.10m-12.40m), 15mins (15.70m-15.90m).  
BACKFILL: On completion, the borehole was backfilled with arisings.

|                                        |      |                  |                  |                             |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |      |                  |                  |                             |
| Logged By<br>SB                        |      |                  |                  |                             |

1.0 ENZYGO WS LOG CRM.1027.189 ICKLEFORD.GPJ GINT STD AGS 3 - 1 ENZYGO.GPJ 29/7/24



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| Site<br>Ickleford Mill      |                                            |                  |              | BH03            |
| Job No<br>CRM.1027.189      | Dates<br>Start 19-07-24<br>Finish 22-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 3 |

| Well                                                                              | Water Levels                                                                      | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend                                                                              | Stratum Description                                                                                                                                                               |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|---------|---------|-----------|-------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                   |                                                                                   | Depth (m)                 | No/Type | Results |           |             |                                                                                     |                                                                                                                                                                                   |   |
|  |  |                           |         |         | 0.20      |             |    | MADE GROUND: CONCRETE.                                                                                                                                                            | 0 |
|                                                                                   |                                                                                   | 0.50                      | B       |         |           |             |    | MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular and subrounded fine to coarse brick, concrete and charcoal.                                     |   |
|                                                                                   |                                                                                   | 1.00 - 1.45               | B SPT   | N 1     | 0.80      |             |    | Dark grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular and rounded fine to coarse flint. 1.00 - 1.45 Very soft, extremely low strength. | 1 |
|                                                                                   |                                                                                   | 1.75                      | D       |         | 1.50      |             |    | Dark grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular and subrounded fine to coarse chalk and flint.                     |   |
|                                                                                   |                                                                                   | 2.00 - 2.50               | B U100  | NR      |           |             |    |                                                                                                                                                                                   | 2 |
|                                                                                   |                                                                                   | 2.00 - 2.45               |         |         |           |             |    |                                                                                                                                                                                   |   |
|                                                                                   |                                                                                   | 2.75                      | D       |         |           |             |   |                                                                                                                                                                                   |   |
|                                                                                   |                                                                                   | 3.00 - 3.45               | D SPT   | N 9     |           |             |  | 3.00 - 3.45 Firm, low strength.                                                                                                                                                   | 3 |
|                                                                                   |                                                                                   | 3.75                      | D       |         |           |             |  |                                                                                                                                                                                   |   |
|                                                                                   |                                                                                   | 4.00 - 4.45               | D SPT   | N 12    |           |             |  | 4.00 - 4.45 Firm, medium strength.                                                                                                                                                | 4 |
|                                                                                   |                                                                                   | 4.75                      | D       |         |           |             |  |                                                                                                                                                                                   |   |
|                                                                                   |                                                                                   | 5.00 - 5.45               | D SPT   | N 16    |           |             |  | 5.00 - 5.45 Stiff, medium strength.                                                                                                                                               | 5 |
|                                                                                   |                                                                                   | 6.00                      | D       |         |           |             |  |                                                                                                                                                                                   | 6 |
|                                                                                   |                                                                                   | 6.50 - 6.95               | D SPT   | N 27    |           |             |  | 6.50 - 6.95 Stiff, high strength.                                                                                                                                                 | 7 |
|                                                                                   |                                                                                   | 7.50                      | D       |         |           |             |  |                                                                                                                                                                                   |   |
|                                                                                   |                                                                                   | 8.00 - 8.45               | U100    |         |           | {8.00}      |                                                                                     |                                                                                                                                                                                   |   |
| Continued next sheet                                                              |                                                                                   |                           |         |         |           |             |                                                                                     |                                                                                                                                                                                   |   |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.00mbgl. Cable percussive drilled 1.00m-20.50mbgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater encountered at 2.20mbgl, rose to 1.80mbgl.  
Chiselling 1hr (0.00m-0.40m), 30mins (0.40m-0.80m), 20mins (12.70m-12.90m), 15mins (17.40m-17.50m), and 10mins (19.60-19.70m).  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 20.00mbgl, granular response zone (20.00m-17.00m), bentonite seal (17.00m-14.00m), arisings (11.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

| Groundwater                            |          |                  |                  |                             |
|----------------------------------------|----------|------------------|------------------|-----------------------------|
|                                        | Date     | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|                                        | 19/07/24 | 2.20             | 2.00             | 1.80                        |
| All dimensions in metres<br>Scale 1:50 |          |                  |                  | Logged By<br>SB             |



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| Site<br>Ickleford Mill      |                                            |                  |              | BH03            |
| Job No<br>CRM.1027.189      | Dates<br>Start 19-07-24<br>Finish 22-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>2 of 3 |

| Well                 | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                    |    |
|----------------------|--------------|---------------------------|---------|---------|-----------|-------------|--------|--------------------------------------------------------|----|
|                      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                        |    |
|                      |              | 9.00                      | D       |         |           |             |        | 9.00 - 9.45 Very stiff, high strength.                 | 8  |
|                      |              | 9.50 - 9.95               | D SPT   | N 33    |           |             |        |                                                        | 9  |
|                      |              | 10.50                     | D       |         |           |             |        |                                                        | 10 |
|                      |              | 11.00 - 11.45             | U100    |         |           |             |        |                                                        | 11 |
|                      |              | 12.00                     | D       |         |           |             |        |                                                        | 12 |
|                      |              | 12.50 - 12.95             | D SPT   | N 62    |           |             |        | 12.50 - 12.95 Very stiff, very high strength. Refused. | 13 |
|                      |              | 13.50                     | D       |         |           |             |        |                                                        |    |
|                      |              | 14.00 - 14.45             | D SPT   | N 39    |           |             |        | 14.00 - 14.45 Very stiff, very high strength.          | 14 |
|                      |              | 15.00                     | D       |         |           |             |        |                                                        | 15 |
|                      |              | 15.50 - 15.95             | D SPT   | N 37    |           |             |        | 15.50 - 15.95 Very stiff, high strength.               | 16 |
| {16.00}              |              |                           |         |         |           |             |        |                                                        |    |
| Continued next sheet |              |                           |         |         |           |             |        |                                                        |    |

#### General Remarks

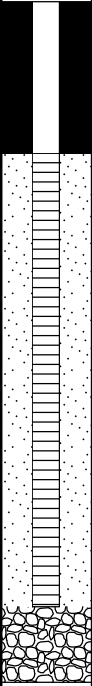
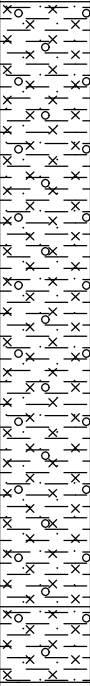
EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.00mbgl. Cable percussive drilled 1.00m-20.50mbgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater encountered at 2.20mbgl, rose to 1.80mbgl.  
Chiselling 1hr (0.00m-0.40m), 30mins (0.40m-0.80m), 20mins (12.70m-12.90m), 15mins (17.40m-17.50m), and 10mins (19.60-19.70m).  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 20.00mbgl, granular response zone (20.00m-17.00m), bentonite seal (17.00m-14.00m), arisings (11.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| All dimensions in metres<br>Scale 1:50 |      |                  |                  |                             |
|                                        |      |                  |                  | Logged By<br>SB             |



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| Site<br>Ickleford Mill      |                                            |                  |              | BH03            |
| Job No<br>CRM.1027.189      | Dates<br>Start 19-07-24<br>Finish 22-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>3 of 3 |

| Well                                                                              | Water Levels | Samples & In Situ Testing |          |         | Depth (m) | Level (mAD) | Legend                                                                             | Stratum Description                                                                                                                                                                                                        |    |
|-----------------------------------------------------------------------------------|--------------|---------------------------|----------|---------|-----------|-------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                   |              | Depth (m)                 | No/Type  | Results |           |             |                                                                                    |                                                                                                                                                                                                                            |    |
|  |              | 16.50                     | D        |         |           |             |  |                                                                                                                                                                                                                            | 16 |
|                                                                                   |              | 17.00 - 17.45             | D<br>SPT | N 42    |           |             |                                                                                    | 17.00 - 17.45 Very stiff, very high strength.                                                                                                                                                                              | 17 |
|                                                                                   |              | 18.00                     | D        |         |           |             |                                                                                    |                                                                                                                                                                                                                            | 18 |
|                                                                                   |              | 18.50 - 18.95             | D<br>SPT | N 49    |           |             |                                                                                    | 18.50 - 18.95 Very stiff, very high strength.                                                                                                                                                                              | 19 |
|                                                                                   |              | 19.50                     | D        |         |           |             |                                                                                    |                                                                                                                                                                                                                            | 20 |
|                                                                                   |              | 20.00 - 20.45             | D<br>SPT | N 51    | 20.00     |             |                                                                                    | 20.00 - 20.45 Very stiff, very high strength. Refused.<br>Dark grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse.<br>Gravel is angular to subangular and subrounded fine to coarse chalk and flint. | 20 |
|                                                                                   |              |                           |          |         | 20.50     |             |                                                                                    | Borehole completed at 20.50m.                                                                                                                                                                                              | 21 |
|                                                                                   |              |                           |          |         |           |             |                                                                                    |                                                                                                                                                                                                                            | 22 |
|                                                                                   |              |                           |          |         |           |             |                                                                                    |                                                                                                                                                                                                                            | 23 |
|                                                                                   |              |                           |          |         |           |             |                                                                                    |                                                                                                                                                                                                                            | 24 |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hand dug inspection pit 0.00m-1.00mbgl. Cable percussive drilled 1.00m-20.50mbgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater encountered at 2.20mbgl, rose to 1.80mbgl.  
Chiselling 1hr (0.00m-0.40m), 30mins (0.40m-0.80m), 20mins (12.70m-12.90m),  
15mins (17.40m-17.50m), and 10mins (19.60-19.70m).  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 20.00mbgl, granular response zone (20.00m-17.00m), bentonite seal (17.00m-14.00m),  
arising (11.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

| Groundwater                            | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|----------------------------------------|------|------------------|------------------|-----------------------------|
| All dimensions in metres<br>Scale 1:50 |      |                  |                  |                             |
|                                        |      |                  |                  | Logged By<br>SB             |

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|-----------------------------|--------------------------------------------|------------------|--------------|-----------------|
| Site<br>Ickleford Mill      |                                            |                  |              | <b>BH04</b>     |
| Job No<br>CRM.1027.189      | Dates<br>Start 19-07-24<br>Finish 19-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>1 of 3 |

| Well                 | Water Levels | Samples & In Situ Testing |         |         | Depth (m) | Level (mAD) | Legend | Stratum Description                                                                                                                                                                           |   |
|----------------------|--------------|---------------------------|---------|---------|-----------|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                      |              | Depth (m)                 | No/Type | Results |           |             |        |                                                                                                                                                                                               |   |
|                      |              |                           |         |         | 0.15      |             |        | MADE GROUND: TARMACADAM.                                                                                                                                                                      | 0 |
|                      |              | 0.30 - 0.50               | ES      |         | 0.30      |             |        | MADE GROUND: CONCRETE.                                                                                                                                                                        |   |
|                      |              | 0.50                      | B       |         | 0.50      |             |        |                                                                                                                                                                                               |   |
|                      |              | 0.50 - 0.70               | ES      |         |           |             |        | MADE GROUND: Brown gravelly medium to coarse SAND. Gravel is angular and subrounded brick, concrete and tarmacadam.                                                                           |   |
|                      |              | 1.00 - 1.45               | B SPT   | N 23    |           |             |        | MADE GROUND: Greyish brown and yellow brown very clayey SAND & GRAVEL. Sand is fine to coarse. Gravel is angular and subrounded brick and tarmacadam. 1.00 - 1.45 Medium dense.               |   |
|                      |              | 2.00 - 2.45               | B SPT   | N 8     |           |             |        | 2.00 - 2.45 Loose.                                                                                                                                                                            | 2 |
|                      |              | 2.75                      | D       |         | 2.75      |             |        |                                                                                                                                                                                               |   |
|                      |              | 3.00 - 3.45               | U100    |         |           |             |        | Dark grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular and subrounded fine to coarse chalk and flint. 3.00 - 3.45 Firm, low strength. | 3 |
|                      |              | 3.75                      | D       |         |           |             |        |                                                                                                                                                                                               |   |
|                      |              | 4.00 - 4.45               | D SPT   | N 16    |           |             |        | 4.00 - 4.45 Stiff, medium strength.                                                                                                                                                           | 4 |
|                      |              | 4.75                      | D       |         |           |             |        |                                                                                                                                                                                               |   |
|                      |              | 5.00 - 5.45               | U100    |         |           |             |        |                                                                                                                                                                                               | 5 |
|                      |              | 6.00                      | D       |         |           |             |        |                                                                                                                                                                                               | 6 |
|                      |              | 6.50 - 6.95               | D SPT   | N 25    |           |             |        | 6.50 - 6.95 Stiff, high strength.                                                                                                                                                             | 7 |
|                      |              | 7.50                      | D       |         |           |             |        |                                                                                                                                                                                               |   |
| 8.00 - 8.45          |              | U100                      |         | {8.00}  |           |             |        | 8                                                                                                                                                                                             |   |
| Continued next sheet |              |                           |         |         |           |             |        |                                                                                                                                                                                               |   |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hydraulic breaker 0.00m-0.30mbgl. Hand dug inspection pit 0.30m-1.00mbgl.  
Cable percussive drilled 1.00m-20.00m bgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered at 15.00mbgl.  
Chiselling 30mins (15.40m-15.60m).  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 20.00mbgl, granular response zone (20.00m-17.00m), bentonite seal (17.00m-14.00m), arisings (14.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

| Groundwater                            |  | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|----------------------------------------|--|------|------------------|------------------|-----------------------------|
| All dimensions in metres<br>Scale 1:50 |  |      |                  |                  | Logged By<br>SB             |



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| Site<br>Ickleford Mill      |                                            |                  |              | BH04            |
| Job No<br>CRM.1027.189      | Dates<br>Start 19-07-24<br>Finish 19-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>2 of 3 |

| Well    | Water Levels | Samples & In Situ Testing      |         |         | Depth (m) | Level (mAD)          | Legend | Stratum Description                                    |    |
|---------|--------------|--------------------------------|---------|---------|-----------|----------------------|--------|--------------------------------------------------------|----|
|         |              | Depth (m)                      | No/Type | Results |           |                      |        |                                                        |    |
|         |              | 9.00                           | D       |         |           |                      |        | 9.00 - 9.45 Stiff to very stiff, high strength.        | 8  |
|         |              | 9.50 - 9.95                    | D SPT   | N 30    |           |                      |        |                                                        | 9  |
|         |              | 10.50                          | D       |         |           |                      |        |                                                        | 10 |
|         |              | 11.00 - 11.45                  | U100    |         |           |                      |        |                                                        | 11 |
|         |              | 12.00                          | D       |         |           |                      |        |                                                        | 12 |
|         |              | 12.50 - 12.95                  | D SPT   | N 39    |           |                      |        | 12.50 - 12.95 Very stiff, very high strength.          | 13 |
|         |              | 13.50                          | D       |         |           |                      |        |                                                        |    |
|         |              | 14.00 - 14.45                  | D SPT   | N 48    |           |                      |        | 14.00 - 14.45 Very stiff, very high strength.          | 14 |
|         |              | 15.00                          | D       |         |           |                      |        |                                                        | 15 |
|         |              | 15.50 - 15.95<br>15.50 - 15.50 | D SPT   | N 50    |           |                      |        | 15.50 - 15.50 Very stiff, very high strength. Refused. | 16 |
| {16.00} |              |                                |         |         |           | Continued next sheet |        |                                                        |    |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hydraulic breaker 0.00m-0.30mbgl. Hand dug inspection pit 0.30m-1.00mbgl.  
Cable percussive drilled 1.00m-20.00m bgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered at 15.00mbgl.  
Chiselling 30mins (15.40m-15.60m).  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 20.00mbgl, granular response zone (20.00m-17.00m), bentonite seal (17.00m-14.00m), arisings (14.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

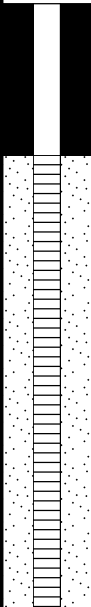
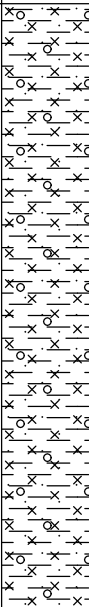
|                                        |                  |                           |                  |                             |
|----------------------------------------|------------------|---------------------------|------------------|-----------------------------|
| Groundwater                            | Date<br>19/07/24 | Strike Depth (m)<br>15.00 | Casing Depth (m) | Depth After Observation (m) |
| All dimensions in metres<br>Scale 1:50 |                  |                           |                  | Logged By<br>SB             |

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| Site<br>Ickleford Mill      |                                            |                  |              | <b>BH04</b>     |
| Job No<br>CRM.1027.189      | Dates<br>Start 19-07-24<br>Finish 19-07-24 | Ground Level (m) | Co-Ordinates |                 |
| Client<br>Hill Partnerships |                                            |                  |              | Sheet<br>3 of 3 |

| Well                                                                              | Water Levels | Samples & In Situ Testing |          |         | Depth (m)      | Level (mAD)                                                                                                                                                                                                                                              | Legend                                                                             | Stratum Description                                    |    |  |
|-----------------------------------------------------------------------------------|--------------|---------------------------|----------|---------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------|----|--|
|                                                                                   |              | Depth (m)                 | No/Type  | Results |                |                                                                                                                                                                                                                                                          |                                                                                    |                                                        |    |  |
|  |              | 16.50                     | D        |         |                |                                                                                                                                                                                                                                                          |  | 17.00 - 17.45 Very stiff, very high strength. Refused. | 16 |  |
|                                                                                   |              | 17.00 - 17.45             | D<br>SPT | N 68    |                |                                                                                                                                                                                                                                                          |                                                                                    |                                                        | 17 |  |
|                                                                                   |              | 18.00                     | D        |         |                |                                                                                                                                                                                                                                                          |                                                                                    |                                                        | 18 |  |
|                                                                                   |              | 18.50 - 18.95             | D<br>SPT | N 104   |                |                                                                                                                                                                                                                                                          |                                                                                    | 18.50 - 18.95 Very stiff, very high strength. Refused. | 19 |  |
|                                                                                   |              | 19.50                     | D        |         |                |                                                                                                                                                                                                                                                          |                                                                                    |                                                        | 20 |  |
|                                                                                   |              | 20.00<br>20.00 - 20.00    | D<br>SPT | N 50    | 20.00<br>20.00 |                                                                                                                                                                                                                                                          |                                                                                    |                                                        | 20 |  |
|                                                                                   |              |                           |          |         |                | Dark grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular and subrounded fine to coarse chalk and flint.<br>20.00 - 20.00 Very stiff, very high strength. Refused.<br>Borehole completed at 20.00m. | 21                                                                                 |                                                        |    |  |
|                                                                                   |              |                           |          |         |                |                                                                                                                                                                                                                                                          |                                                                                    |                                                        | 22 |  |
|                                                                                   |              |                           |          |         |                |                                                                                                                                                                                                                                                          |                                                                                    |                                                        | 23 |  |
|                                                                                   |              |                           |          |         |                |                                                                                                                                                                                                                                                          |                                                                                    |                                                        | 24 |  |

#### General Remarks

EQUIPMENT: Pilcon cable percussion rig.  
METHOD: Hydraulic breaker 0.00m-0.30mbgl. Hand dug inspection pit 0.30m-1.00mbgl.  
Cable percussive drilled 1.00m-20.00m bgl.  
CASING: 10.00m of 200mm, and 20.00mm of 150mm diameter steel casing used.  
REMARKS: Groundwater seepage encountered at 15.00mbgl.  
Chiselling 30mins (15.40m-15.60m).  
BACKFILL: On completion, a slotted pipe (63mm OD) was installed to 20.00mbgl, granular response zone (20.00m-17.00m), bentonite seal (17.00m-14.00m), arisings (14.00m-0.15m) flush steel cover and gas valve (0.15m-0.00m).

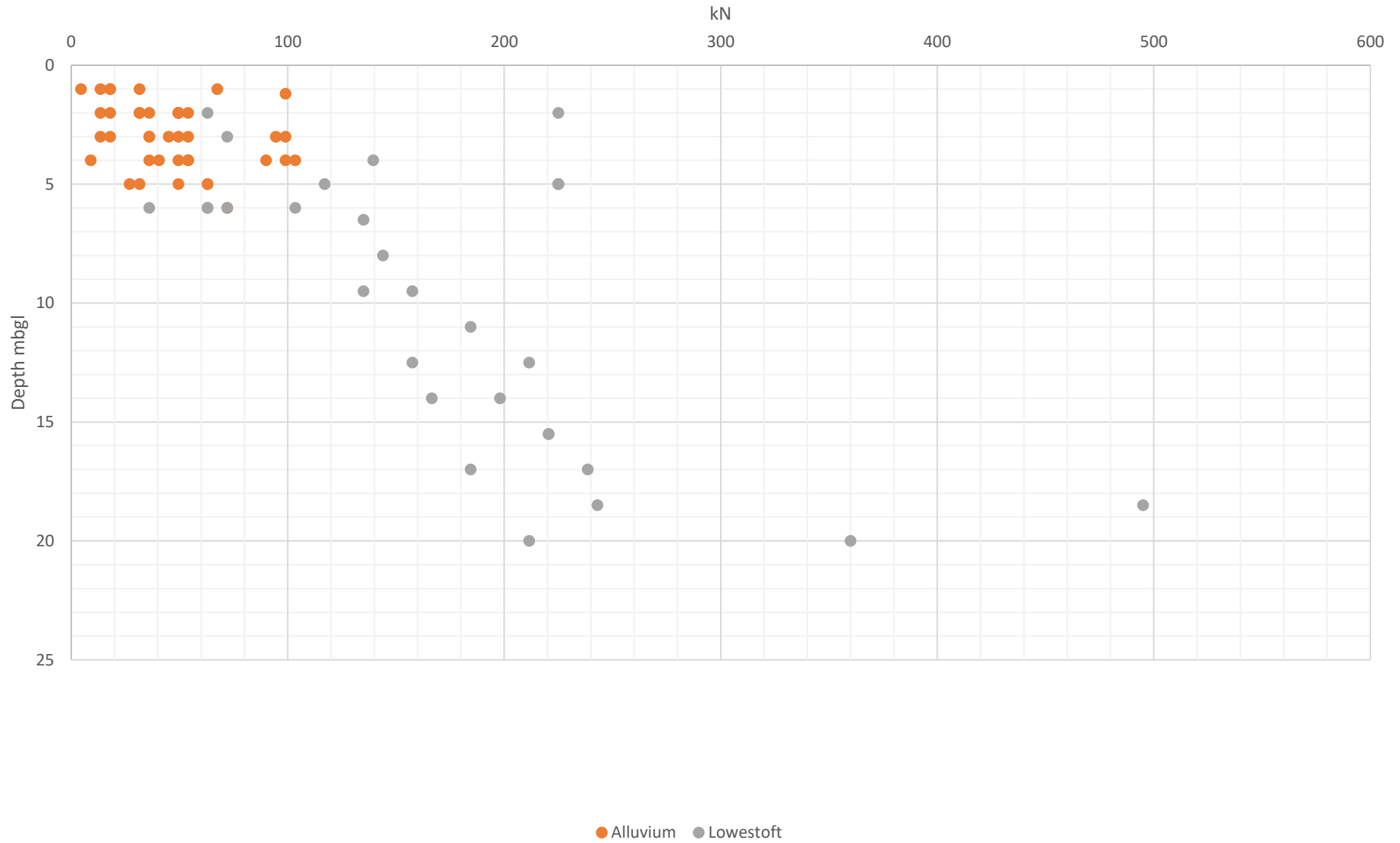
| Groundwater                            |  | Date | Strike Depth (m) | Casing Depth (m) | Depth After Observation (m) |
|----------------------------------------|--|------|------------------|------------------|-----------------------------|
| All dimensions in metres<br>Scale 1:50 |  |      |                  |                  | Logged By<br>SB             |

1.0 ENZYGO WS LOG CRM.1027.189 ICKLEFORD.GPJ GINT STD AGS 3 - 1 ENZYGO.GPJ 29/7/24

Depth strength plot for Ickleford Mill - CRM.1027.189

The plot displays the relationship between depth (mbgl) and strength (kN) for two soil types: Alluvium and Lowestoft. The y-axis represents Depth mbgl (0 to 25) and the x-axis represents strength in kN (0 to 600). Alluvium data points are clustered at shallow depths (0-5 mbgl) with low strength values (0-100 kN). Lowestoft data points show a clear trend of increasing strength with depth, starting around 100 kN at 5 mbgl and reaching over 500 kN at 20 mbgl.

| Depth mbgl | Strength kN (Alluvium)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Strength kN (Lowestoft)                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 0          | 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600 |                                                                                                                                     |
| 1          | 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600 |                                                                                                                                     |
| 2          | 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600 |                                                                                                                                     |
| 3          | 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600 |                                                                                                                                     |
| 4          | 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600 |                                                                                                                                     |
| 5          | 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600 | 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 3 |



## Appendix 3 – Chemical Testing

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## **Analytical Report Number : 24-032504**

|                             |                                         |                                                        |            |
|-----------------------------|-----------------------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Ickleford Mill, Arlesey Road, Ickleford | <b>Samples received on:</b>                            | 24/07/2024 |
| <b>Your job number:</b>     | CRM.1027.189                            | <b>Samples instructed on/<br/>Analysis started on:</b> | 24/07/2024 |
| <b>Your order number:</b>   |                                         | <b>Analysis completed by:</b>                          | 30/07/2024 |
| <b>Report Issue Number:</b> | 1                                       | <b>Report issued on:</b>                               | 30/07/2024 |
| <b>Samples Analysed:</b>    | 5 soil samples                          |                                                        |            |

**Signed:**

Joanna Szwagrzak  
Reporting Specialist  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting  
leachates - 2 weeks from reporting  
waters - 2 weeks from reporting  
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.  
Application of uncertainty of measurement would provide a range within which the true result lies.  
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-032504

Project / Site name: Ickleford Mill, Arlesey Road, Ickleford

| Lab Sample Number                       |  |  |  | 267095        | 267096                     | 267097                       | 267098        | 267099        |
|-----------------------------------------|--|--|--|---------------|----------------------------|------------------------------|---------------|---------------|
| Sample Reference                        |  |  |  | BH01          | BH02A                      | BH03                         | BH04          | BH04          |
| Sample Number                           |  |  |  | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Depth (m)                               |  |  |  | 0.30-0.70     | 0.00-0.30                  | 0.20-0.50                    | 0.30-0.50     | 0.50-0.70     |
| Date Sampled                            |  |  |  | 18/07/2024    | 18/07/2024                 | 19/07/2024                   | 19/07/2024    | 19/07/2024    |
| Time Taken                              |  |  |  | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) |  |  |  | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

|                               |    |      |      |     |       |      |      |       |
|-------------------------------|----|------|------|-----|-------|------|------|-------|
| Stone Content                 | %  | 0.1  | NONE | 27  | < 0.1 | 12.2 | 19.1 | < 0.1 |
| Moisture Content              | %  | 0.01 | NONE | 13  | 18    | 19   | 7.1  | 15    |
| Total mass of sample received | kg | 0.1  | NONE | 1.5 | 1.5   | 1.5  | 1.5  | 1.5   |

#### Asbestos

|                                        |      |     |           |              |              |              |              |              |
|----------------------------------------|------|-----|-----------|--------------|--------------|--------------|--------------|--------------|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | Not-detected | Not-detected | Not-detected | Not-detected | Not-detected |
| Asbestos Analyst ID                    | N/A  | N/A | N/A       | KSZ          | KSZ          | KSZ          | KSZ          | KSZ          |

#### General Inorganics

|                                                                 |          |      |        |       |       |       |       |       |
|-----------------------------------------------------------------|----------|------|--------|-------|-------|-------|-------|-------|
| pH (L099)                                                       | pH Units | N/A  | MCERTS | 8.9   | -     | 9.7   | -     | 9.2   |
| Total Cyanide                                                   | mg/kg    | 1    | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Water Soluble Sulphate as SO <sub>4</sub> 16hr extraction (2:1) | mg/kg    | 2.5  | MCERTS | 120   | -     | 970   | -     | 990   |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1)             | mg/l     | 1.25 | MCERTS | 57.9  | -     | 486   | -     | 497   |
| Organic Matter (automated)                                      | %        | 0.1  | MCERTS | 2.3   | 4.6   | 1.4   | 2.1   | 0.7   |

#### Speciated PAHs

|                        |       |      |           |        |        |        |        |        |
|------------------------|-------|------|-----------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.12   | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.07   | < 0.05 | < 0.05 | 0.06   | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.9    | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.24   | < 0.05 | < 0.05 | 0.15   | 0.51   |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 2.1    | 0.1    | 0.31   | 0.33   | 0.63   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.95   | < 0.05 | 0.06   | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 39     | 1.4    | 0.67   | 0.56   | 0.14   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 35     | 1.3    | 0.57   | 0.66   | 0.19   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 16     | 0.57   | 0.26   | 0.25   | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 17     | 0.75   | 0.3    | 0.34   | 0.09   |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 19     | 0.72   | 0.37   | 0.23   | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 5.8    | 0.33   | 0.19   | < 0.05 | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 14     | 0.6    | 0.32   | 0.17   | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 6.8    | 0.27   | 0.18   | 0.1    | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | < 0.05 | 0.09   | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 7.6    | 0.34   | 0.22   | 0.14   | < 0.05 |

#### Total PAH

|                             |       |     |           |     |      |      |      |      |
|-----------------------------|-------|-----|-----------|-----|------|------|------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 164 | 6.44 | 3.46 | 2.98 | 1.56 |
|-----------------------------|-------|-----|-----------|-----|------|------|------|------|

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |       |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|-------|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 10    | 14    | 13    | 18    | 14    |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chromium (aqua regia extractable) | mg/kg | 1   | MCERTS | 19    | 23    | 27    | 24    | 19    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 15    | 21    | 17    | 8.2   | 6.5   |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 62    | 49    | 36    | 9.2   | 8.8   |
| Mercury (aqua regia extractable)  | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable)   | mg/kg | 1   | MCERTS | 19    | 22    | 20    | 19    | 18    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Vanadium (aqua regia extractable) | mg/kg | 1   | MCERTS | 30    | 41    | 45    | 47    | 33    |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 49    | 75    | 65    | 46    | 33    |

Analytical Report Number: 24-032504

Project / Site name: Ickleford Mill, Arlesey Road, Ickleford

| Lab Sample Number                       | 267095        | 267096                     | 267097                       | 267098        | 267099        |
|-----------------------------------------|---------------|----------------------------|------------------------------|---------------|---------------|
| Sample Reference                        | BH01          | BH02A                      | BH03                         | BH04          | BH04          |
| Sample Number                           | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Depth (m)                               | 0.30-0.70     | 0.00-0.30                  | 0.20-0.50                    | 0.30-0.50     | 0.50-0.70     |
| Date Sampled                            | 18/07/2024    | 18/07/2024                 | 19/07/2024                   | 19/07/2024    | 19/07/2024    |
| Time Taken                              | None Supplied | None Supplied              | None Supplied                | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |

#### Petroleum Hydrocarbons

|                                                          |       |      |        |         |         |         |         |         |
|----------------------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aliphatic >EC5 - EC6 <sub>HS_1D_AL</sub>        | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aliphatic >EC6 - EC8 <sub>HS_1D_AL</sub>        | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | < 0.010 | 0.029   |
| TPHCWG - Aliphatic >EC8 - EC10 <sub>HS_1D_AL</sub>       | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | 0.026   | 0.34    |
| TPHCWG - Aliphatic >EC10 - EC12 <sub>EH_CU_1D_AL</sub>   | mg/kg | 1    | MCERTS | < 1.0   | < 1.0   | 1.7     | 31      | 17      |
| TPHCWG - Aliphatic >EC12 - EC16 <sub>EH_CU_1D_AL</sub>   | mg/kg | 2    | MCERTS | 7.6     | < 2.0   | 12      | 480     | 380     |
| TPHCWG - Aliphatic >EC16 - EC21 <sub>EH_CU_1D_AL</sub>   | mg/kg | 8    | MCERTS | < 8.0   | < 8.0   | 20      | 890     | 660     |
| TPHCWG - Aliphatic >EC21 - EC35 <sub>EH_CU_1D_AL</sub>   | mg/kg | 8    | MCERTS | 9.6     | < 8.0   | 22      | 340     | 180     |
| TPHCWG - Aliphatic >EC5 - EC35 <sub>EH_CU+HS_1D_AL</sub> | mg/kg | 10   | NONE   | 17      | < 10    | 55      | 1700    | 1200    |

|                                                         |       |      |        |         |         |         |         |         |
|---------------------------------------------------------|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aromatic >EC5 - EC7 <sub>HS_1D_AR</sub>        | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC7 - EC8 <sub>HS_1D_AR</sub>        | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC8 - EC10 <sub>HS_1D_AR</sub>       | mg/kg | 0.02 | MCERTS | < 0.020 | < 0.020 | < 0.020 | < 0.020 | < 0.020 |
| TPHCWG - Aromatic >EC10 - EC12 <sub>EH_CU_1D_AR</sub>   | mg/kg | 1    | MCERTS | < 1.0   | < 1.0   | < 1.0   | 6.7     | 5       |
| TPHCWG - Aromatic >EC12 - EC16 <sub>EH_CU_1D_AR</sub>   | mg/kg | 2    | MCERTS | 14      | < 2.0   | 2.1     | 180     | 150     |
| TPHCWG - Aromatic >EC16 - EC21 <sub>EH_CU_1D_AR</sub>   | mg/kg | 10   | MCERTS | 120     | < 10    | < 10    | 440     | 230     |
| TPHCWG - Aromatic >EC21 - EC35 <sub>EH_CU_1D_AR</sub>   | mg/kg | 10   | MCERTS | 160     | 19      | 15      | 190     | 68      |
| TPHCWG - Aromatic >EC5 - EC35 <sub>EH_CU+HS_1D_AR</sub> | mg/kg | 10   | NONE   | 300     | 19      | 17      | 810     | 450     |

#### VOCs

|                                    |       |   |        |       |       |       |       |       |
|------------------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Benzene                            | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene                            | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene                       | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| o-Xylene                           | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

#### Pesticides

|                                  |       |    |      |      |      |      |      |   |
|----------------------------------|-------|----|------|------|------|------|------|---|
| Alpha-BHC (Benzene Hexachloride) | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Alachlor                         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Gamma-BHC (Lindane, gamma HCH)   | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Omethoate                        | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| 1,2,3-Trichlorobenzene           | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| 1,3,5-Trichlorobenzene           | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| 2,6-Dichlorobenzonitrile         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Dimethylvinphos                  | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Demeton-O                        | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Demeton-S                        | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Endrin Aldehyde                  | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Endrin Ketone                    | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Hexachlorobutadiene              | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Phosphamidon (Sum)               | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| 1,2,4,5-Tetrachlorobenzene       | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Endosulfan sulfate               | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Etrinfos                         | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Fenvalerate (Sum)                | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Hexachlorobenzene                | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Mevinphos, E+Z                   | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Pentachlorobenzene               | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Pirimiphos-ethyl                 | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Propetamphos                     | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |
| Tecnazene                        | µg/kg | 10 | NONE | < 10 | < 10 | < 10 | < 10 | - |

Analytical Report Number: 24-032504

Project / Site name: Ickleford Mill, Arlesey Road, Ickleford

| Lab Sample Number                       |       |                            |                              | 267095        | 267096        | 267097        | 267098        | 267099        |
|-----------------------------------------|-------|----------------------------|------------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                            |                              | BH01          | BH02A         | BH03          | BH04          | BH04          |
| Sample Number                           |       |                            |                              | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                            |                              | 0.30-0.70     | 0.00-0.30     | 0.20-0.50     | 0.30-0.50     | 0.50-0.70     |
| Date Sampled                            |       |                            |                              | 18/07/2024    | 18/07/2024    | 19/07/2024    | 19/07/2024    | 19/07/2024    |
| Time Taken                              |       |                            |                              | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Test Limit of<br>detection | Test Accreditation<br>Status |               |               |               |               |               |
| Triadimefon                             | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Aldrin                                  | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Azinphos-methyl                         | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Beta-BHC                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Cis-Chlordane                           | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Chlorfenvinphos                         | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Chlorpyrifos                            | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Chlorothalonil                          | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Carbophenothion                         | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Delta-BHC                               | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Dieldrin                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Heptachlor Exo-epoxide                  | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Endrin                                  | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Endosulfan I (alpha isomer)             | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Endosulfan II (beta isomer)             | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Fenthion                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Isodrin                                 | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Methacrifos                             | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| O,p'-DDD                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| O,p'-DDE                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| O,p'-DDT                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Parathion                               | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Parathion-methyl                        | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Pendimethalin                           | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Phorate                                 | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Phosalone                               | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| P,p'-DDD                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| P,p'-DDE                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| P,p'-DDT                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| P,p'-Methoxychlor                       | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Propyzamide                             | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Triazophos                              | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Trans-Chlordane                         | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Dichlorvos                              | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Dimethoate                              | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Diazinon                                | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Ethion                                  | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Fenitrothion                            | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Malathion                               | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Pirimiphos-methyl                       | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Trifluralin                             | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |
| Azinphos-ethyl                          | µg/kg | 10                         | NONE                         | < 10          | < 10          | < 10          | < 10          | -             |

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected