

ENVIRONMENT

Oxfordshire Railfreight Interchange Ltd
Oxfordshire RFI
Ardley, Oxon
Minerals Assessment

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1. INTRODUCTION

Instruction

- 1.1 BWB Consulting (BWB) was instructed by Oxfordshire Railfreight Interchange Ltd (the Client) to carry out a Minerals Assessment for the site at Ardley, Oxon.
- 1.2 It is proposed to develop the site into a distribution hub, served by a new strategic rail freight interchange, including new road infrastructure linking the site to the main local highways.
- 1.3 An Illustrative Masterplan is set out in **Appendix 1** (ref: 31105-FE-66, dated October 2021) which demonstrates a potential site layout. However, this will not be conditioned as part of the outline application. Further detail on the scheme layout will be submitted at Reserved Matters stage.
- 1.4 At this time, the development of the site will likely comprise a large earthworks exercise to create development plateaus. Current earthwork models indicate up to 7.0m of earth will be cut from the west and northwest of the site and re-engineered across the central and eastern extents to raise levels. An earthwork model for the site is presented as **Drawing 1** (ref: 19-7709-SK 0001 P12, dated March 2020).

Objectives

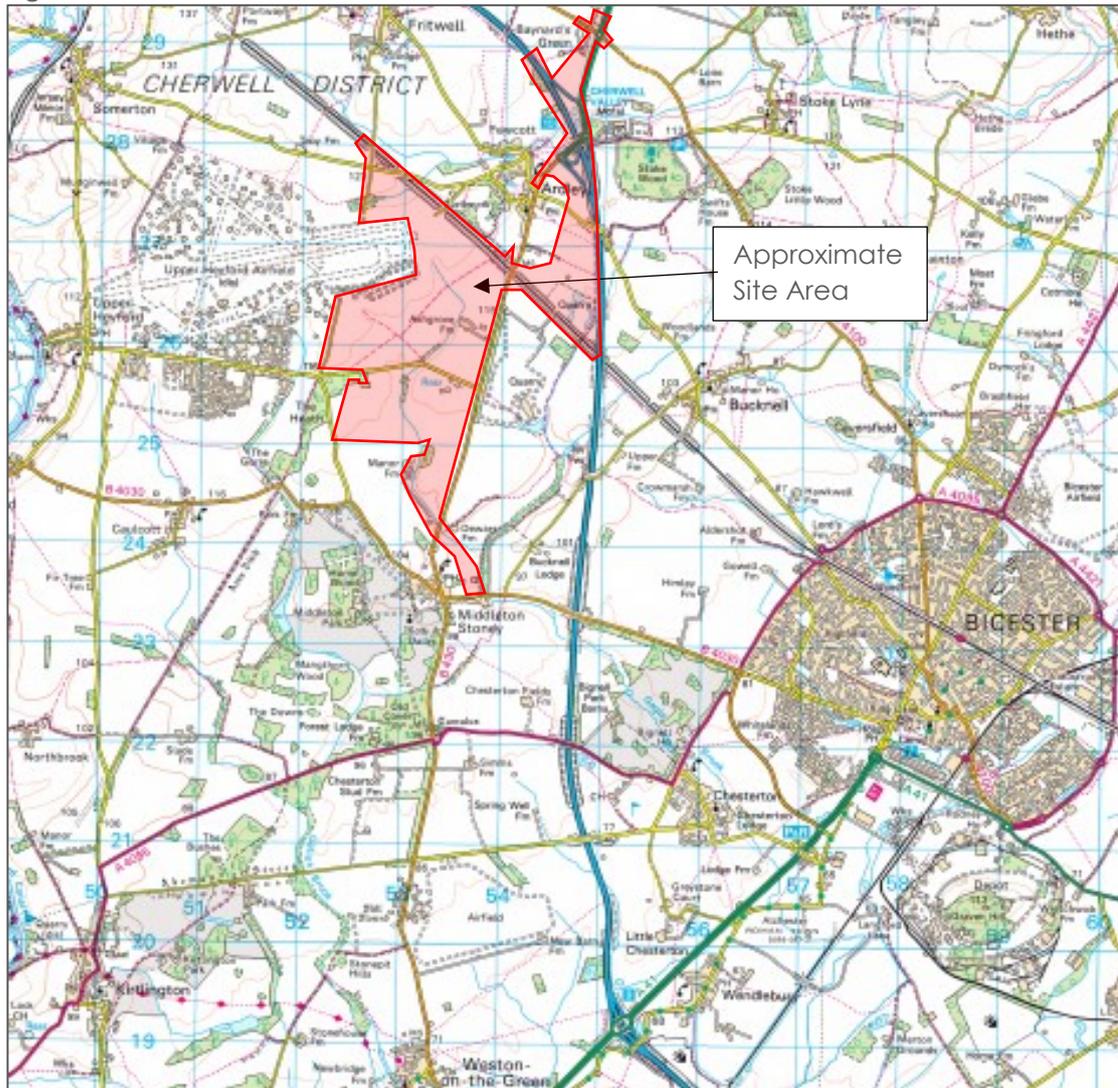
- 1.5 The site is located in a Minerals Safeguarding Area (MSA). Therefore, this Minerals Assessment has been produced in order to consider the impact of the proposed development on potential mineral resources at the site and their potential viability for extraction.

2. THE SITE

Site Location

- 2.1 The site is located immediately south of the village of Ardley, Oxfordshire, centred at National Grid reference 453728, 225258. The approximate location of the site is shown below in **Figure 2:1**.

Figure 2:1: Site Location Plan

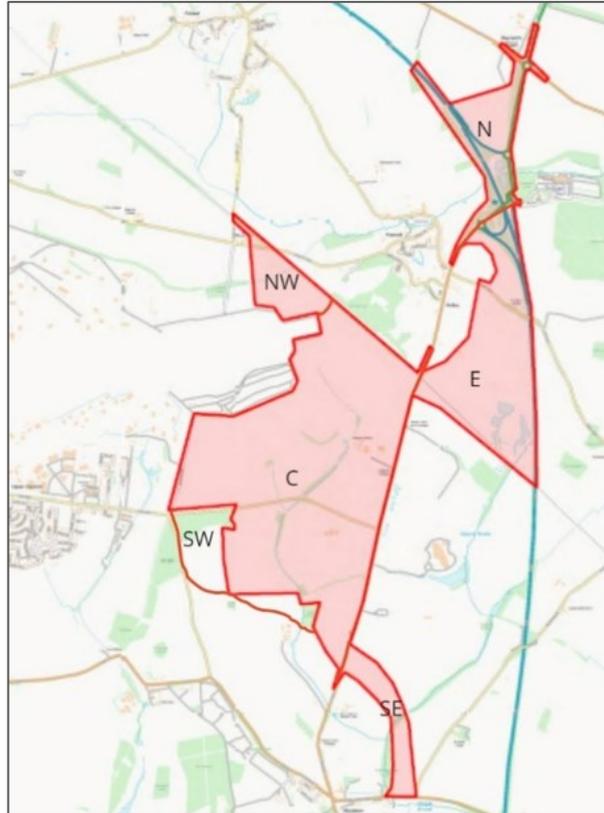


Site Description

- 2.2 The site is irregular in shape and stretches from Baynard's Green field north of Junction 10 of the M40 down south to Middleton Stoney village along the B340 road. The actual proposed development area is identified as Area C on **Figure 2.2** below, other areas will be required for the infrastructure to serve the actual railfreight development.

- 2.3 The site was visited by BWB personnel on the 09/09/2021 when it was possible to interview the Ashgrove Farm landlord. Site areas described below are outlined on **Figure 2.2** and described in **Section 2.4** to **2.9**.

Figure 2:2: Site Areas



Area between the North of J10 M40 and South of J10 M40 (north)

- 2.4 The area to the north includes an agricultural field between the M40, the A43 and B4100, most of the area is generally flat and at approximately 120m above Ordnance Datum (AOD). The field is divided in two by the junction slip road, with an isolated land with two balancing ponds to the south of it. The slip roads associated with Junction 10 of the M40 are on embankments, and they lead to the A43 to the northeast through a roundabout, and southwest towards Ardley through Padbury roundabout. The junction lies within the valley of Stoke Lyne Brook that runs east to west through it, sloping down from approximately 120m to 110m AOD. A portion of the valley and its watercourse is included within the site to the west of the M40 and to the north of Ardley. A free flow link construction is anticipated on this area.

Area between the South of J10 M40 and Railway Cutting (east)

- 2.5 South of the junction the site includes agricultural fields between the B340, the M40 (here low cutting then at grade) and the Chiltern Main Line rail (in cutting) with exclusion to a quarry area to the southeast. The area is cut in two fields by Ardley Road and generally slopes to the southeast and includes farm buildings close to the B340. Small portions of

fields are included east of the M40 and south of the railway, in an area accessed by Ardley Field Household Waste facility.

Ground Investigation Area (central) – Main Development Site?

- 2.6 The largest site surface is located within open agricultural field including Ashgrove Farm, bounded by the Chiltern Main Line rail to the northeast, the B340 the east, Chilgrove Drive and the former Upper Heyford airbase to the west and northwest, and extending further south Camp Road towards parcels of land belonging to Manor Farm. The area generally gently slopes from 115m to 105m AOD from north to south, and it includes an unnamed watercourse tributary of the Gauge Brook which flows north to south. The field parcels are separated by hedgerows and strips of land with dense tree vegetation are present in the vicinity of the watercourse. Ashgrove Farm cottages and buildings are present within the field, and an infilled pond surface has been identified through consultation with the landlord. To the south of Camp Road, two adjacent fenced areas are present which hosts Ardley Composting Facility and a covered Water Reservoir on earthwork. The ground investigation boundary comprises the full proposed development area with the remaining wider site areas proposed road corridors.

Railway Cutting Area to the northwest (northwest)

- 2.7 A railway cutting and agricultural fields are located in the northwest of the site, north of Upper Heyford airbase, which is outside of the ground investigation area but was included within the Hydrock (2021) desk study report boundary.

Area between Camp Road and Manor Farm (southwest)

- 2.8 An additional parcel of agricultural land is located to the south of Camp Road and to the north of Manor Farm, which is outside of the ground investigation area but was included within the Hydrock (2021) desk study report boundary.

Area to the Southeast of BB340 (southeast)

- 2.9 The village of Middleton Stoney lies several kilometres to the south of the site. A strip of land running to the east of the B340 with a northwest to southeast direction terminating into the B4030 Road, is included within the masterplan for the development of Middleton Stoney Relief Road. The area itself consists of a mixture of predominately arable and pasture fields with Gagle Brook flowing from the northeast to the south. Its topography is generally flat but slopes gently towards the watercourse towards the south of the site. In addition, dense vegetation in the vicinity of the watercourse.

Previous Report

- 2.10 The following reports have been reviewed as part of this assessment;
- Oxfordshire Strategic Railfreight Interchange – Main Site Phase 1 Geotechnical and Geo-environmental Desk Study by Hydrock, ref: 15560-HYD-XX-GE-RP-1001-S2-P01, dated March 2021;

- Oxfordshire Strategic Railfreight Interchange – Off-site Highways Phase 1 Geotechnical and Geo-environmental Desk Study by Hydrock, ref: 15560-HYD-OSH-GE-RP-1002-S2-P01, dated July 2021; and
- Oxfordshire RFI Phase 2 Geo-Environmental Assessment by BWB Consulting, ref: OFRI-BWB-ZZ-XX-RP-YE-0001_Ph2_P1, dated December 2021.

2.11 In preparing this report it is assumed that the reader could refer to the contents of the above referenced reports; pertinent points have been included within this report where appropriate.

3. GROUND CONDITIONS

Data Sources

3.1 The data sources reviewed as part of this ground conditions assessment are detailed as follows:

- British Geological Survey (BGS) Geological Map Number 219, Buckingham, 1:63,3600 edition, Solid and Drift, dated 1963;
- Online BGS Geology of Britain Viewer (3D);
- Online Geoindex Onshore mapping (minerals);
- BGS 'Oxfordshire Minerals Resources Map', 1: 100,000, dated 2004;
- Hydrock Phase 1 Assessments (dated March & July 2021); and
- BWB Phase 2 Assessment (dated December 2021).

Published Geology, Hydrogeology and Hydrology

- 3.2 Information published by the BGS indicates that the site is predominately absent of superficial deposits, isolated pockets of Head deposits are indicated to be present in the north of the site (A43 / M40 interchange) and in the northwest and north – central areas of the main site area. Alluvium deposits are indicated along stream courses running through the centre of the site trending north to south and in the northwest corner of the site. Bedrock deposits are mapped to comprise the White Limestone Formation (WLF), with pockets of Forest Marble Formation (limestone) in the northwest and south of the site and Rutland Formation (mudstone, siltstone and sandstone) in the north-central area.
- 3.3 Artificial Ground is indicated to be present to the east of the site where landfilling has occurred (Ardley Landfill) in the northern extents of the Smiths Ardley Quarry. In addition, several areas of artificial ground are present immediately to the northwest (airfield, railway cutting and Ardley Wood), north (M40 and service station) and east of the site (Ardley / Fields Farm Quarry and Ardley Landfill).
- 3.4 A geological fault is shown to transect the north and northwest corner of the site, trending west to northeast and downthrown to the north.
- 3.5 The site and wider infrastructure area is located within a Minerals Safeguarding Area for the protection of the White Limestone for used as a crushed rock material. Based upon plans with the Oxfordshire Minerals and Waste Local Plan this resource is abundant, particularly in the northern extents of Oxfordshire between Bicester and Chipping Norton.
- 3.6 BGS borehole records and previous ground investigation records generally indicate topsoil or Made Ground underlain by shallow limestone. Further details are provided within the Hydrock (2021) desk study report.

- 3.7 Ground investigation works completed by BWB in September 2021 generally confirmed the anticipated geological sequences typically recording varying thickness of topsoil and subsoil (up to 1.0m thick) over slightly clayey to clayey sandy limestone recovered as a gravel.
- 3.8 Limited Made Ground was recorded, mainly encountered around the Ashgrove Farm area.
- 3.9 Alluvium was encountered in two locations, to the north and southwest of Ashgrove Farm. The deposits were recorded as a soft to firm clayey silt or silty clay.
- 3.10 The White Limestone Formation was encountered across the site at proven thicknesses ranging between 0.26m and 9.80m, recovered as a very dense, greyish/orangish brown slightly clayey sandy gravel and gravelly sand, with gravels of limestone and some shell fragments and calcareous concretions. Interbedded layers of very dense grey slightly sandy gravel of limestone and orange, brown clayey sand was encountered towards the southeast of the site. The limestone in this area is understood to be a competent rock which may require blasting.
- 3.11 Rutland Formation was encountered at one location to the southwest of Ashgrove Farm from 2.4m to 3.03m bgl, comprising firm greenish grey slightly silty, sandy, slightly gravelly clay with occasional shell fragments and gravels of limestone.
- 3.12 An exploratory hole location plan is presented as **Drawing 2** and exploratory hole logs are presented as **Appendix 2**.
- 3.13 The underlying ground conditions have been classified by the Environment Agency (EA) as follows:
- Superficial Deposits:
- Alluvium: Secondary (A) Aquifer; and
 - Head Deposit: Secondary Undifferentiated Aquifer.
- Bedrock:
- White Limestone Formation: Principal Aquifer;
 - Forest Marble Formation: Principal Aquifer; and
 - Rutland Formation: Secondary (B) Aquifer.
- 3.14 Hydrock state that previous ground investigations on site reported groundwater in the White Limestone Formation at depths between 3.4 and 3.7m below ground level (bgl). Two groundwater bodies were expected by Hydrock at the base of each of the limestones, with the less permeable mudstone/siltstones/clays acting as an aquitard between the shallower and deeper groundwater bodies.
- 3.15 Groundwater is considered by Hydrock to be in hydraulic continuity with the surface water features on the site. Hydrock state that groundwater flow is generally towards the southeast, although there may be some localised flow towards the railway cutting in the north, and the streams at the base of valleys in the south.

3.16 Several surface watercourses are present within and in the vicinity of the site as presented below in **Table 3:1**:

Table 3:1: Surface Water Features

Surface Water Feature	Location (Site Area)	Location (Flow)
<p>Gagle Brook All options of the Middleton Stoney Relief Road will cross the brook and it runs approximately 100m south-east of the proposed M40 J10 south facing slips.</p>	Generally, to the east of the site but crosses the site boundary in the southeast (southeast onsite) flowing to the southeast.	Overall, hydraulically downgradient
<p>Padbury Brook Classified as Good Chemical and Moderate Ecological status under the Water Framework Directive for the latest available year (2019). It is noted to be heavily modified.</p>	North of the site crossing the M40 to the north of J10 (north onsite) flowing to the east	Hydraulically upgradient
<p>M40 J10 balancing ponds Two balancing ponds are located between the M40 (west) and the A43 (east).</p>	North of the site (north onsite)	Hydraulically upgradient
<p>Covered Reservoir Appears to have been constructed in the 1980s. Reservoir to be retained as part of proposed development.</p>	Centre west of the site (central onsite)	Hydraulically cross-gradient
<p>Unnamed watercourses Two issues located central onsite which join the Gagle Brook offsite in the south. The proposed link to Heyford Park via Camp Road will cross this watercourse.</p>	Centre of the site (central onsite) flowing southeast	Hydraulically up/ cross-gradient
<p>Gallos Brook (& Leys Farms Ditch) Classified as Good Chemical and Moderate Ecological status under the Water Framework Directive for the latest available year (2019).</p>	200m west (west offsite) flowing south	Hydraulically upgradient
<p>Balancing ponds Two balancing ponds are located at the Viridor Ardley Energy Recovery Facility.</p>	400m east (east offsite)	Hydraulically cross/downgradient
<p>River Cherwell Classified as Good Chemical and Moderate Ecological status under the Water Framework Directive for the latest available year (2019).</p>	3km west (west offsite) flowing south	Hydraulically upgradient
<p>River Ray Classified as Good Chemical and Bad Ecological status under the Water Framework Directive for the latest available year (2019).</p>	10km southeast (southeast offsite) flowing southwest	Hydraulically downgradient

3.17 Several small drains and ponds and historic springs are also located towards the south of the site.

Mineral Extraction

3.18 Mineral extraction has been undertaken historically in the surrounding area, with several small-scale limestone pits and quarries noted on historical maps and in the Groundsure report. In addition, significant limestone quarrying operations have occurred at:

- The historical Ardley Quarry (also known as Ardley Fields Farm Quarry), to the east of the site, on the eastern side of the B430 road. Small scale mining occurred historically (late 19th Century). Large scale quarrying appears to have commenced in the late 1970s and worked north to south. Mineral extraction appears to have been completed by the late 1990s in this area and the site was backfilled as a landfill (Ardley landfill). Restoration commenced in the early 2000's and the Ardley ERF facility was constructed in the south of the site during the early 2010s.
- The historical Ardley Woods Quarry was located to the north of the site (on the northern side of the railway line). This was quarried (small scale) in the late 19th Century and appears to have been mined more extensively in the late 1970s and early 1980s. It is noted as disused by 1992. The site forms part of the Ardley Woods and Cutting SSSI.
- The historical Ardley Quarry Extension was located to the north-west of the site; north of the Ardley Quarry (on the northern side of the railway line). This was quarried in the early 2000s and is now partially restored (vegetated, with ponds in the east of the former quarry). This quarry now forms part of the Ardley Trackways SSSI.
- Ardley/ Dewar's Farm Quarry to the south of Ardley Quarry; to the immediate east / south-east of the site. This quarry is noted to be 'active'. For further information with regard to the Ardley/ Dewar's Farm Quarry, please refer to the information below.

3.19 The Hydrock Phase 1 (Main site) assessment details discussions with the Planning & Estates Manager of Smith & Sons (Bletchington) Ltd (the operators of the Ardley Farm Quarry). A summary of the discussion is below;

- The general geological sequence is approximately 1m of weathered limestone (limestone and clay known as "brash"), over 7m of limestone underlain by soft blue clay and mudrock.
- A dinosaur footprint was uncovered at the top of the mudrock deposits, this was preserved as part of the Ardley Trackway SSSI.
- There is groundwater at the base of the limestone, perched on top of the soft blue clay and mudrock.

4. MINERAL PLANNING IN OXFORDSHIRE

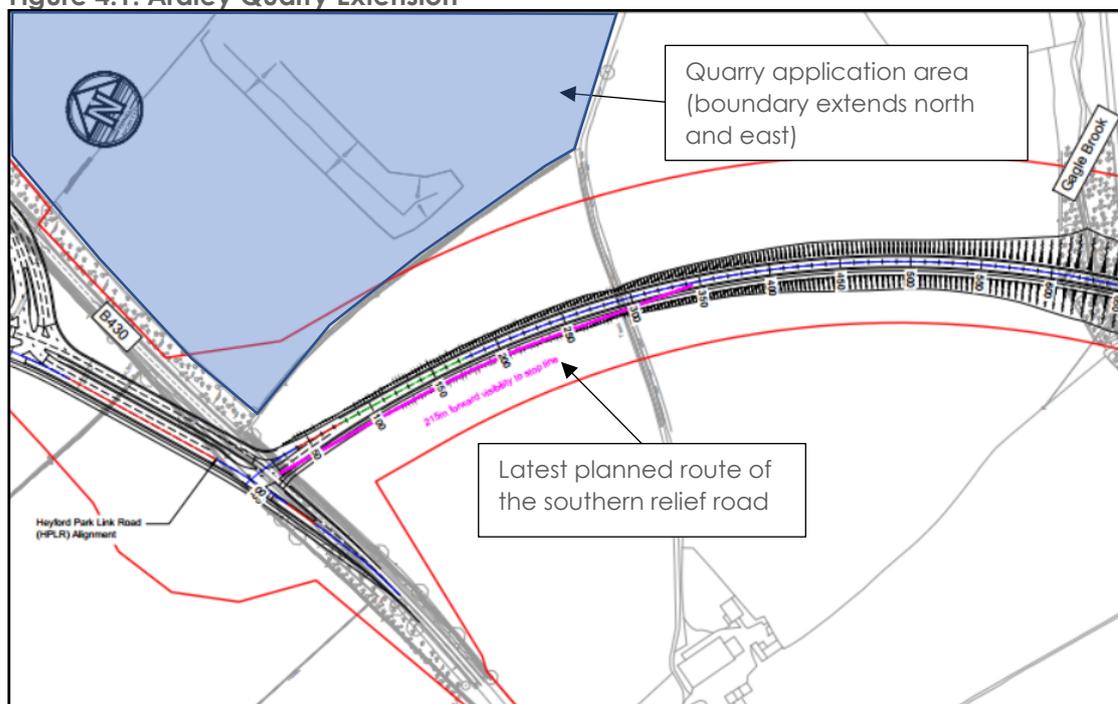
The Oxfordshire Minerals and Waste Local Plan

- 4.1 The Core Strategy is presented within the Oxfordshire Minerals and Waste Local Plan, adopted on 12th September 2017 and due to be in place until the end of 2031. This document sets out the planning strategies and policies to preserve the supply of minerals in Oxfordshire.
- 4.2 The site is located within a Minerals Safeguarding Area for protection of a crush rock (limestone) resource, therefore applications for development of this scale require approval to ensure that viable mineral resources are not sterilised by other, non-mineral forms of development.
- 4.3 Key points relevant to this site are highlighted below.
- The provision that should be made for working primary aggregate minerals (sand & gravel, soft sand and crush rock) in Oxfordshire to meet the needs of the county for construction through the plan period (ending 2031).
 - Minerals exported outside of the county should be done by rail; further into the local plan additional text confirms that imported aggregates would preferably come in via the rail networks / depots. Additional rail depots should be permitted at suitable locations should the opportunity arise.
 - Mineral workings and supply facilities will be located and managed to minimise the distance that aggregates need to be transported by road.
 - Make provision for a steady and adequate supply of minerals over the plan period to meet the planned economic growth and social needs of Oxfordshire.
 - Ensure that resources are not needlessly sterilised and remain potentially available for future uses.
 - The County Councils Oxfordshire Local Aggregate Assessment 2014 sets a provision for land-won crushed rock of 0.584 million tonnes a year, with a total required in Oxfordshire for crushed rock between 2014 and 2031 calculated at 10.512 million tonnes.
 - If demand grows, and additional supplies of minerals are required, preference will be given to permissions to extend existing quarries rather than for new quarries. The Local Aggregate Assessment 2014 indicates that new quarries are unlikely within the period of the Local Plan.
 - Permissions for development over a protected mineral could be granted if it can be demonstrated that the mineral can be excavated (through a borrow pit for example) and used on site during the construction phase with minimal use of public highways. Any mineral excavated in this way can only be used in connection with the project.

Ardley Quarry

- 4.4 As discussed above, the Ardley Quarry is located immediately east and south of the site and has been subject to limestone removal throughout the 19th century with commercial extraction from the 1980s through numerous extensions.
- 4.5 Numerous applications have been made to extend the quarry since 2003, the majority of which were refused citing issues with noise, dust, transport and archaeology concerns. The most recent and successful application (ref: 18/01610/CM) was submitted on 10th September 2018 and granted on 26th October 2018. The permission allowed for quarrying activities of limestone and clay to continue up until 2028 with restoration works commencing in 2029.
- 4.6 The application area covered approximately 51 hectares, assuming an average limestone thickness of 7m, this equates to approximately 8.3million tonnes of mineral to be removed (based on a density of 2.3Mg/m³).
- 4.7 **Figure 4:1** below depicts the quarry extension area in relation to the latest proposed road improvement schemes, in particular the Middleton Stoney Relief Road to the south of the site. The proposed road does not impact upon the currently planned extraction of limestone from the southern tip of the Ardley quarry.

Figure 4:1: Ardley Quarry Extension



5. MINERAL RESOURCE ASSESSMENT

Potential Mineral Resources

5.1 The limestone deposits are considered to be the only significant resource of hard rock mineral with respect to the Oxfordshire Minerals and Waste Local Plan (2017).

Extent of Mineral Resource On-Site

5.2 As detailed in **Section 3.0**, the majority of the site area is underlain by the White Limestone Formation, with limited superficial deposits and isolated pockets of Forest Marble Formation (limestone) and Rutland Formation (mudstone).

5.3 The BGS defines typical criteria for an economically workable deposit as follows:

- The deposit should average more than 2m in thickness;
- The ratio of overburden to mineral should not exceed 1:1;
- The proportion of fines should not exceed 15 – 25% silt or 10 - 15% clay; and
- The deposit should lie within 5 – 10m of the surface.

5.4 As part of the BWB investigation completed in September 2021, fourteen Particle Size Distribution tests (PSD) were undertaken on samples from the White Limestone Formation, a summary of the results is provided in **Table 5:1** below.

Table 5:1: PSD Results Summary

Stratum	Location	Depth (m bgl)	Cobble Content (%)	Gravel Content (%)	Sand Content (%)	Clay/ Silt Content (%)
WLF	SA08	1.1	6.9	61.0	16.9	15.2
WLF	SA09	0.7	20.2	52.5	15.1	12.2
WLF	TP109	0.6	13.9	64.4	13.6	8.0
WLF	TP119	0.5	32.7	27.5	17.2	22.6
WLF	TP121	1.0	0.0	53.7	38.2	8.1
WLF	TP121	1.9	0.0	1.1	8.4	90.5
WLF	TP124	1.6	0.0	8.1	40.0	51.9
WLF	TP131	0.8	10.3	55.3	23.3	11.1
WLF	TP136	1.2	36.7	31.1	20.7	11.5
WLF	TP140	0.5	0.0	67.1	16.8	16.1
WLF	TP149	0.9	10.7	55.1	21.7	12.5
WLF	TP150	0.5	0.0	57.1	26	16.9
WLF	TP154	1.0	0.0	1.0	21.1	77.9
WLF	TP163	0.7	37.2	46	9.6	7.2

-
- 5.5 The laboratory analysis indicates that the deposits across the site contain a fines content of between 7.2% and 90.5%. Following the BGS' criteria for an economically workable deposit, the limestone encountered on site would be deemed economically workable. The testing is, however, based on recovered samples of rotary boreholes and the in situ rock is anticipated to be a hard but fractured material.
- 5.6 Limestone is generally recorded within 1.0m of the site surface, with a workable thickness of limestone of approximately 6.0m across the site. Given the approximate site area of 200ha, this equates to an estimated 27.6 million tonnes of limestone present on site; assuming that 50% of the mineral was extractable, this would generate more rock from one source than is required to fulfil the entire Local Plan requirement of approximately 10.5 million tonnes. Therefore, it is considered unlikely that there will be an economic demand for the mineral if extracted for sale within the lifetime of the current plan.

6. CONCLUSIONS

Existing Mineral Resources

- 6.1 The Oxfordshire Mineral and Waste Local Plan states that preference will be given to the expansion of existing quarries, such as the expansion of the Ardley Quarry immediately east of the site in 2018.
- 6.2 The Local Plan also states that demand for crushed rock for the plan period, ending in 2031, will be met by the existing quarries across the county.
- 6.3 The latest road improvement plans indicate the extraction of the full currently permitted extent of the Ardley quarry will not be impacted by the construction of the Middleton Stoney relief road.

Archaeology

- 6.4 As discussed in **Section 3.0**, a dinosaur footprint was uncovered at the base of the Ardley Quarry which has been preserved and designated as part of the Ardley Trackway SSSI.
- 6.5 Archaeology surveys are currently underway across the site, once these works are complete this report will be updated with any findings which may impact upon potential mineral extraction.

Development Over a Minerals Resource

- 6.6 The proposed development comprises a distribution hub, served by a strategic rail depot. As part of the development of this site a large earthworks exercise will be undertaken, with up to 7.0m of cut required in areas of the site. The latest earthworks model has been designed to balance the amount of cut taken and the amount of fill required, with the intention that no additional material will be required to be imported or exported from site. This approach is supported by the guidance within the Local Plan by using all excavated minerals from the subject site on the development of that site whilst not putting additional demand on the existing mineral supply and fulfilling the requirement to minimise the use of public highways for mineral transport.
- 6.7 Additionally, there is the potential for the proposed strategic rail depot to be utilised to export the limestone extracted from the Ardley quarry to the wider county and further markets.

Summary

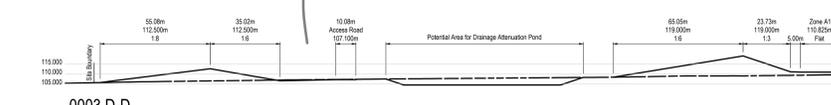
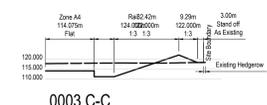
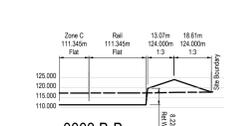
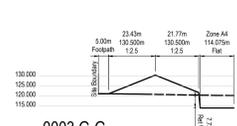
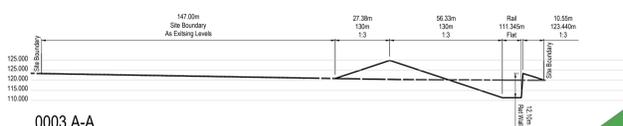
- 6.8 This assessment indicates that a potentially viable mineral resource exists on site, however, there is no economic demand for the resource to be removed for sale in the next decade or more. It is BWB's opinion that the construction of the proposed development will offer greater economic gain than the extraction and sale of the mineral reserve.

DRAWINGS

Drawing 1: Earthworks Model

Notes:
 Dimensions provided are indicative only, and should be confirmed and read in conjunction with the Architect's construction drawings at such times as they are available, and/or from site measurement.
 All settings out to be in accordance with the Architect's drawings, any ambiguities to be raised prior to construction.

RESIDUAL RISK REGISTER			
No.	Description of Hazard	Control Measures	Action By
-	Standard construction		



Zone A3
 Plateau 117.075m
 FFL 117.575m
 488,900m²

Zone A4
 Plateau 114.075m
 FFL 114.575m
 inc A2 - 359,490m²

Zone B
 Plateau 114.075m
 FFL 114.575m
 58,170m²

Zone C
 Plateau 111.345m
 Rail by Others

Zone A1a
 Plateau 110.825m
 FFL 111.325m
 209,280m²

Zone A1b
 Plateau 112.075m
 FFL 112.575m
 169,845m²

Zone A2
 Plateau 114.075m
 FFL 114.575m
 inc A4 - 359,490m²

Road and existing
 wood land to remain
 at existing levels

PRELIMINARY

Rev	By	Date	Details
P1	AM	27.03.20	Preliminary Issue
P2	AM	31.03.20	Plateaus amended
P3	AM	03.04.20	Zone B1 lowered to suit rail. Other plateaus amended to balance CF
P4	AM	29.04.20	Rail and zones A1-A2 & B1 amended, site C/F balanced and checked
P5	AM	29.04.20	Amended to suit discussions with FPCR
P6	AM	15.07.20	Detailed topo and additional pond/landscaping included
P7	AM	26.10.20	Levels and bunds amended to suit meeting comments
P8	AM	11.05.21	Plateaus amended
P9	AM	02.07.21	Rhines pond/retained existing landscape coloured and 'cut' contours colour amended
P10	AM	09.07.21	Amended to suit latest layout and comments
P11	AM	17.07.21	Cut/Fill balanced. Latest Parameter MSA layout added and bunding/grading amended/added
P12	AM	19.07.21	Minor amendments, more e/f added to sections

Client:
 Cuvette/Mountpark

Project:
 Ardley, Oxfordshire

Drawing Title:
 Preliminary Earthworks

CONSULTING CIVIL & STRUCTURAL ENGINEERS
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COMPLETE DESIGN PARTNERSHIP LTD

Date: Mar 20	Drawing No.	Issue No.
Scale: 1:2,500 @ A0	19-7709-SK 0001	P
Drawn: AM		12

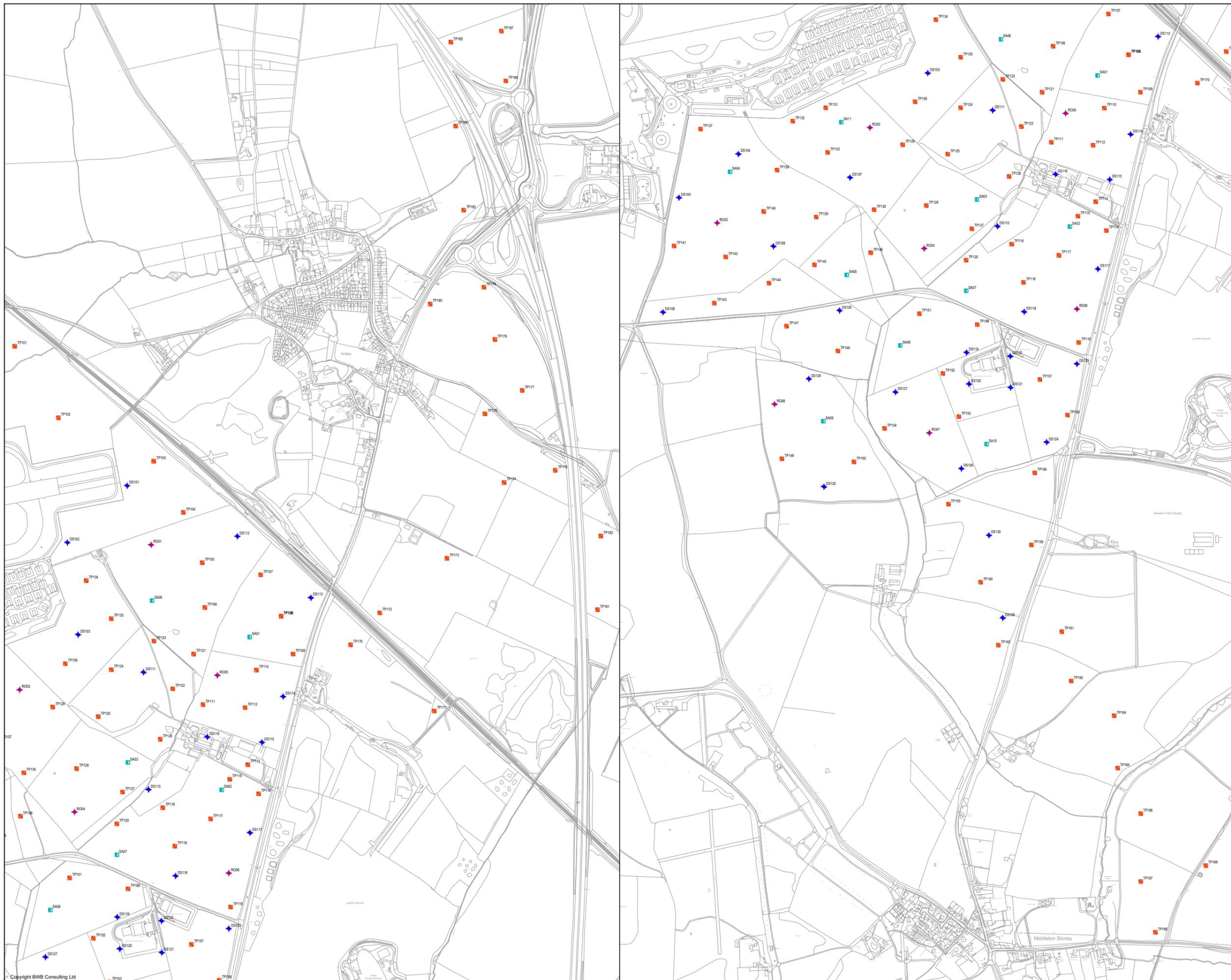
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0.4	Primary "CUT" contour
0.300	Secondary "CUT" contour
0.0	Zero "CUT/FILL" contour
0.100	Secondary "FILL" contour
0.6	Primary "FILL" contour

Tender Issue - SK 0001 Revision P12 - PDS Model K - Topo Rev 3 (-200mm)					
Proposed Plateaus/Bunds	Cons Depth	Cut	Fill	E/O Cut	E/O Fill
	0mm	3447113.1	3633713.3	130000.0	186600.2
Attenuation	130,000m³	130000.0			
Total Cut/Fill		3572113.1	3633713.3	130000.0	186600.2
Extra Over Cut/Fill					56600.2
Site Total Import (to be 0m³ export at detailed design)					56600.2

NOTE: The proposed FFL's are subject to rail cut and fill design/construction depths and could be raised or lowered by 500mm at final design stage.

No volumes for drainage and foundation excavations have been taken into account at this stage. Further additional topo information is required in future for more detailed Cut/Fill calculations.

Drawing 2: Exploratory Hole Location Plan



- Notes**
1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
 2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
 3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
 4. Any discrepancies noted on site are to be reported to the engineer immediately.

Key Plan

- Legend**
- TP** Proposed Trial Pit Location - Target Depth of ~3.5m bgl
 - SA*** Proposed Trial Pit Location - Target Depth of ~3.5m bgl
 - DS*** Proposed Dynamic Sample Borehole - Typical Target Depth of 5.0m bgl
 - RO** Proposed Rotary Open Hole - Typical Target Depth of ~10.0m bgl

Rev	Date	Details of issue / revision	Drawn	Reviewed

Issues & Revisions

BWB
A GROUP COMPANY

- Birmingham | 0121 233 3322
- Leeds | 0113 233 8000
- London | 020 7234 9122
- Manchester | 0161 233 4260
- Nottingham | 0115 924 1100
- www.bwbconsulting.com

Client
Oxford RFI Ltd

Project Title
Oxford RFI

Drawing Title
Proposed Exploratory Hole Location Plan

Drawn: RTR	Reviewed: CR
BWB Ref: NTH2479	Date: Sept_21
Scale@A3: NTS	Status: Draft P8
Project - Originator - Zone - Level - Type - Role - Number	
ORFI-BWB-ZZ-XX-DR-YE-0001_PEHLP	

APPENDICES

Appendix 1: Proposed Site Layout



NOTES:
 SUBJECT TO STATUTORY CONSENTS
 SUBJECT TO SURVEY
 BASED ON OS MAP REPRODUCED BY PERMISSION OF CONTROLLER OF HM STATIONARY OFFICE (c) CROWN COPYRIGHT
 COPYRIGHT RESERVED
 DO NOT SCALE THIS DRAWING
 DO NOT USE ELECTRONIC VERSIONS OF THIS DRAWING TO DETERMINE DIMENSIONS UNLESS SPECIFICALLY AUTHORISED BY MICHAEL SPARKS ASSOCIATES
 IF USING AN ELECTRONIC VERSION OF THIS DRAWING FIGURED DIMENSIONS TAKE PRECEDENCE AND NOTIFY MICHAEL SPARKS ASSOCIATES OF ANY DISCREPANCIES

BASED ON: GREENHATCH GROUP LTD'S TOPOGRAPHICAL SURVEY.
 REF: 36846_T_REV 4.
 DATED: 31-08-21.

ORDER LIMITS
 PROPOSED ROAD LAYOUT

BASED ON: BWB LTD'S HEYFORD PARK LINK ROAD GENERAL ARRANGEMENT.
 REF: OXSRFI-BWB-GEN-ZZ-SK-CH-SK023.
 DATED: 03-08-21.

PLATEAU BOUNDARY

PROPOSED LEVELS
 BASED ON CDP LTD'S: PRELIMINARY EARTHWORKS.
 REF: 19-7709-SK 0001.REV P12.
 DATED: MARCH 2020.
 NOTE: FINISHED FLOOR LEVELS SUBJECT TO CHANGE
 THIS DOCUMENT REQUIRES UPDATING.

INTERMODAL RAIL TERMINAL
 BASED ON INTERMODALITY'S: RAIL INFRASTRUCTURE GENERAL ARRANGEMENT.
 REF: IMT J0235_D5.24.
 DATED: 18.08.2021.

SURFACE WATER DRAINAGE
 BWB LTD'S: CONCEPT DRAINAGE STRATEGY.
 REF: IOFRI-BWB-EWE-ZZ-DR-CD-00502.
 DATED: 02.09.2021.
 NOTE: PONDS INDICATIVE AND SUBJECT TO DETAILED DESIGN
 THIS DOCUMENT REQUIRES UPDATING.

LANDSCAPING LAYOUT
 FPCR LTD'S: ILLUSTRATIVE LANDSCAPE MASTERPLAN.
 REF: 8308-L-23 REV C
 DATED: SEPT 2021
 THIS DOCUMENT REQUIRES UPDATING.

REV	DATE	NOTE	DRAW	CHK
..	PF	..



CHARTERED ARCHITECTS
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 LONDON SW6 4TU
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TITLE
ARDLEY SRFI, OXFORDSHIRE
 DRAWING
ILLUSTRATIVE MASTERPLAN

CLIENT
CUVETTE

DATE	SCALE	DRAWN
OCT 2021	1:5000@A1	PF
	STATUS	CHECKED
	FEASIBILITY	MS/PB

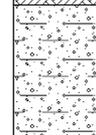
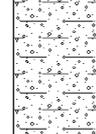
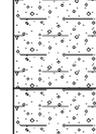
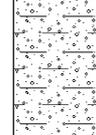
DRAWING NUMBER
31105-FE-66



Appendix 2: Exploratory Hole Records

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453382.19 N227091.08	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 101	Hole Type WS	Level 120.85m AoD	Logged By EMB	Scale 1:10	Status FINAL

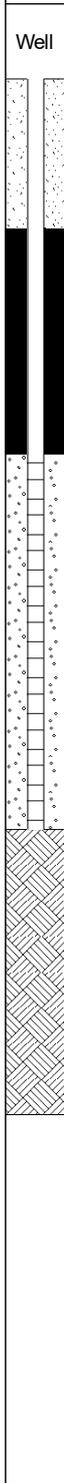
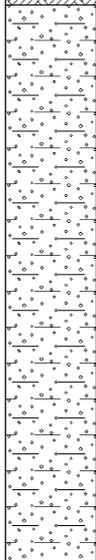
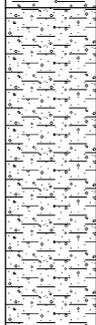
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.20	120.65		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.50	ES2					Brown slightly clayey sandy subangular to subrounded fine to medium limestone GRAVEL with some shell fragments. Sand is fine to medium.
		0.70	D1		0.70	120.15		Very dense light grey slightly sandy angular to subangular fine to coarse limestone GRAVEL.
		0.90	D2					Very dense light grey slightly sandy angular to subangular fine to coarse limestone GRAVEL.
		1.00 1.00	D3 SPT	50 (25 for 105mm/50 for 0mm)	1.11	119.74		Very dense light grey slightly sandy angular to subangular fine to coarse limestone GRAVEL.
								End of Borehole at 1.11m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
--	---------------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453167.05 N226887.60	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 102	Hole Type WS	Level 121.36m AoD	Logged By EMB	Scale 1:10	Status FINAL

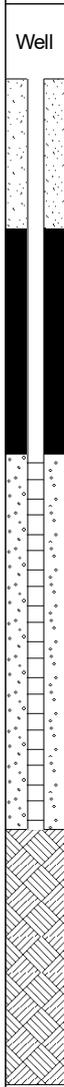
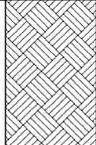
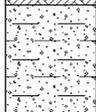
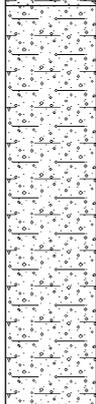
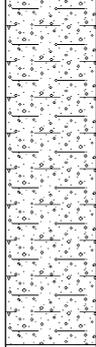
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.20	121.16		Brown slightly sandy clayey subangular to subrounded fine to coarse limestone GRAVEL with frequent rootlets. Sand is fine to medium.
		0.50	D1					Very dense greyish brown clayey subangular to subrounded fine to coarse limestone GRAVEL.
		1.00	SPT	N=50 (5, 5/50 for 225mm)	0.95	120.41		Stiff light brown slightly sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse limestone, sand is fine to medium.
		1.10	D2					
					1.38	119.98		End of Borehole at 1.38m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
--	--------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E 453202.54 N 226578.63	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 103	Hole Type WS	Level 119.48m AoD	Logged By EMB	Scale 1:10	Status FINAL

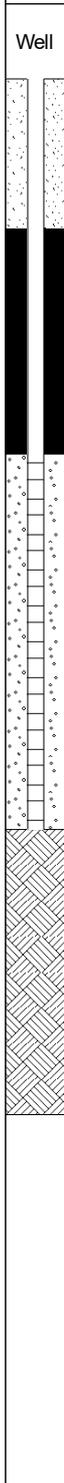
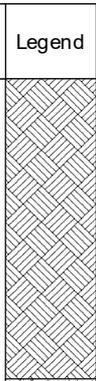
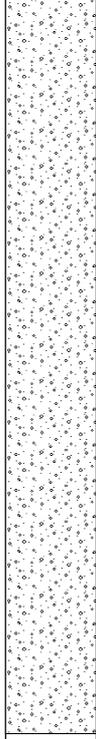
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.20	119.28		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.30 0.30	D3 ES2		0.35	119.13		Brown clayey gravelly fine to medium SAND with occasional shell fragments. Gravel is subangular to subrounded fine to coarse limestone.
		0.90	D4					Very dense grey and orange slightly clayey sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		1.00	SPT	50 (25 for 135mm/50 for 200mm)				
					1.34	118.14		End of Borehole at 1.34m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
--	---------------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452540.97 N226388.89	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 104	Hole Type WS	Level 120.97m AoD	Logged By EMB	Scale 1:10	Status FINAL

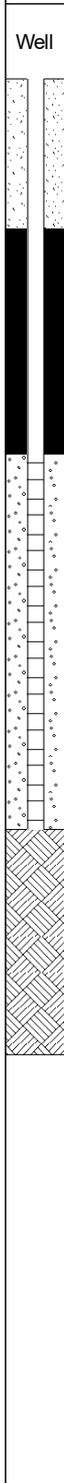
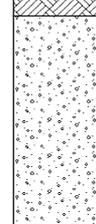
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.40	120.57		Brown slightly clayey gravelly fine and medium SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone.
		0.30	D1					
		0.50	ES2					
		1.00 1.00	D2 SPT	N=50 (14,8/50 for 227mm)	1.38	119.59		Very dense grey brown sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
								End of Borehole at 1.38m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
--	---------------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452331.31 N26133.15	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 105	Hole Type WS	Level 120.51m AoD	Logged By EMB	Scale 1:10	Status FINAL

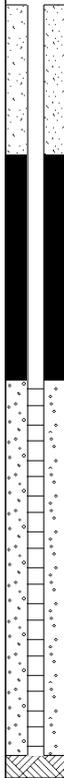
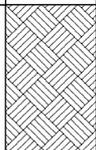
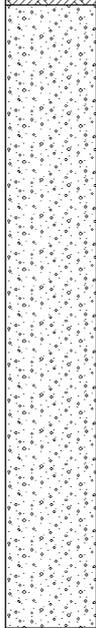
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.15	ES1		0.20	120.31		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.20	D1					
		0.40	D2		0.50	120.01		Greyish brown sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		0.50	ES2					
		1.00	D3		1.30	119.21		Very dense orangish grey very gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse limestone.
	1.00	SPT	50 (2,3/50 for 145mm)					
								End of Borehole at 1.30m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
--	--------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452665.30 N225961.45	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 106	Hole Type WS	Level 114.04m AoD	Logged By EMB	Scale 1:10	Status FINAL

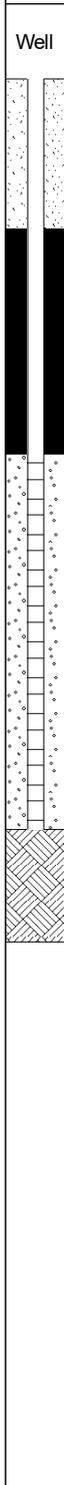
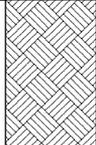
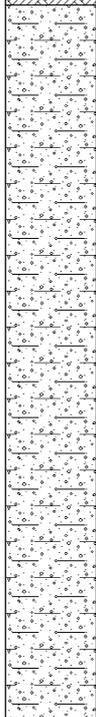
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		Depth (m)	Type	Results				
		0.20	ES1		0.20	113.84		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.50	D1					Very dense greyish brown sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		0.90 0.95 - 1.00	SPT D2	50 (25 for 85mm/50 for 45mm)	1.03	113.01		End of Borehole at 1.03m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.9 m bgl, difficult to dig.	Sheet 1 of 1
---	---------------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452935.56 N226178.50	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 107	Hole Type WS	Level 113.33m AoD	Logged By EMB	Scale 1:10	Status FINAL

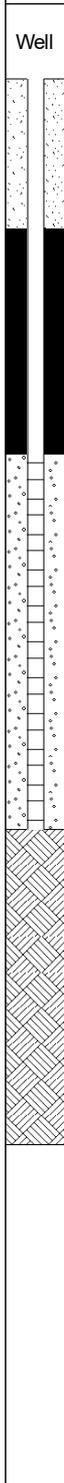
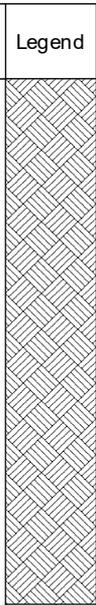
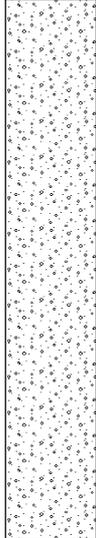
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES1		0.20	113.13		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.30	ES2					
		0.40	D1					
		1.00						
		1.00	D2 SPT	50 (25 for 100mm/50 for 45mm)		1.15	112.18	
								End of Borehole at 1.15m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
--	---------------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452276.27 N225727.26	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 108	Hole Type WS	Level 118.17m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	ES1				Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.	
		0.70	D1		0.70	117.47		Very dense pale greyish brown very sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		1.00 1.00	D2 SPT	N=50 (9, 7/50 for 270mm)				
					1.42	116.75		End of Borehole at 1.42m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
--	--------------

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453497.45 N224637.84	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 109	Hole Type WS	Level 103.4 1m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES1		0.20	103.21		Brown clayey gravelly fine and medium SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone.
		0.20	D1					Very dense grey and orangish brown slightly clayey sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		0.60 0.60	D2 SPT	50 (25 for 120mm/50 for 20mm)	0.74	102.67		End of Borehole at 0.74m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.6m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453468.14 N226040.31	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 110	Hole Type WS	Level 108.12m AoD	Logged By JM	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.30	107.82		Soft dark brownish black slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular fine to coarse limestone, sand is fine to medium.
		0.50 0.50	D1 ES2					Soft light brown mottled light grey slightly sandy slightly gravelly clayey SILT. Gravel is angular to subangular fine to coarse limestone, sand is fine to coarse.
		1.00 1.00	D2 ES3		1.70	106.42		
		1.20 1.20	D3 SPT	N=8 (2,2/3,2,1,2)				At 1.50m bgl: Occasional sand lenses (<50mm).
		1.40	D4					
	1.80	ES4					Soft grey slightly organic slightly sandy slightly gravelly silty CLAY with slight organic odour. Gravel is subangular fine and medium limestone.	

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks
				2.00		

Remarks 1. Hole terminated at target depth. 2. Groundwater encountered at 2.0m bgl. 3. Inspection pit from ground level to 1.2m bgl.	Sheet 1 of 2
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453468.14 N226040.31	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 110	Hole Type WS	Level 108.12m AoD	Logged By JM	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
	▼	1.90			1.90	106.22		Soft grey slightly organic slightly sandy slightly gravelly silty CLAY with slight organic odour. Gravel is subangular fine and medium limestone.	2
		2.00	D5					Medium dense grey slightly gravelly silty fine SAND. Gravel is angular to subangular fine to coarse limestone.	
		2.00	SPT	N=16 (4,6/6,4,3,3)	2.40	105.72		Firm greenish grey slightly silty slightly sandy slightly gravelly CLAY with occasional shell fragments. Gravel is subangular fine to medium limestone, sand is fine.	
		2.50	D6		3.00	105.08			
		3.00	D7		3.03	105.08		End of Borehole at 3.03m	
		3.00	SPT	50 (25 for 8mm/50 for 20mm)					

Hole Diameter		Casing Diameter		Water Strike General			
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks	

Remarks 1. Hole terminated at target depth. 2. Groundwater encountered at 2.0m bgl. 3. Inspection pit from ground level to 1.2m bgl.	Sheet 2 of 2
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453469.34 N226398.54	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 111	Hole Type WS	Level 111.60m AoD	Logged By EMB	Scale 1:10	Status FINAL

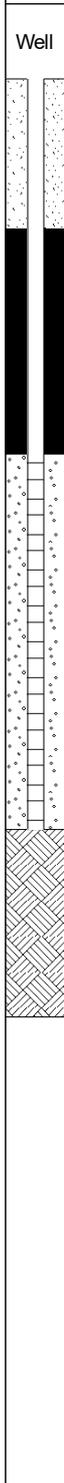
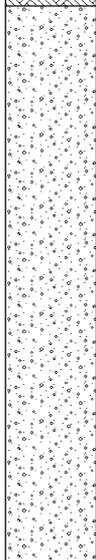
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.20	111.40		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.50	D1					Very dense brownish grey slightly clayey very sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium. <i>Below 0.50m bgl: Occasional shell fragments.</i>
		0.80	SPT	50 (25 for 80mm/50 for 10mm)				
					1.00	110.60		End of Borehole at 1.00m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.8m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453768.72 N226913.55	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 112	Hole Type WS	Level 116.27m AoD	Logged By EMB	Scale 1:10	Status FINAL

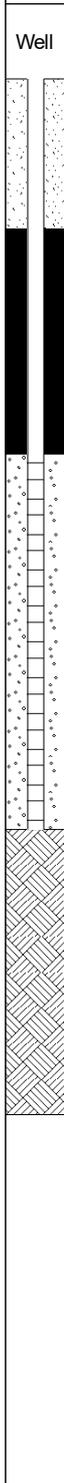
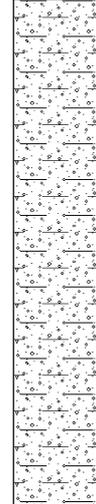
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	ES1		0.50	115.77		Brown slightly clayey gravelly fine and medium SAND with frequent rootlets. Gravel is subangular to subrounded fine to medium limestone. Sand is fine to medium.
		0.50	D1					
		0.70	D2			115.02		Very dense grey and brown slightly sandy subangular to subrounded fine to coarse limestone GRAVEL Sand is fine to medium. <i>Below 0.50m bgl: Occasional calcareous concretions and shell fragments.</i>
		1.00	SPT	50 (4,7/50 for 95mm)				
					1.25			End of Borehole at 1.25m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E 454065.19 N 226696.94	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 113	Hole Type WS	Level 117.74m AoD	Logged By JM	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.30	117.44		Firm brown slightly sandy gravelly CLAY with low cobble content and frequent rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium. Cobbles are subangular limestone (<90mm).
		0.40	D1					
		0.50	ES2					
		0.80	D2		0.70	117.04		Very dense whitish light grey slightly clayey slightly sandy angular to subangular fine to coarse limestone GRAVEL with occasional shell fragments. Sand is fine to medium.
		1.00	D3					
		1.00	SPT	N=50 (3, 7/50 for 225mm)		1.38	116.36	

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.6m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453956.76 N226355.85	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 114	Hole Type WS	Level 117.34m AoD	Logged By JM	Scale 1:10	Status FINAL

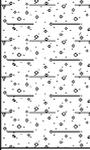
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES1		0.20	117.14		Orangish brown slightly clayey gravelly fine to medium SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone.	
		0.40	ES2						Brown slightly clayey gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse limestone.
		0.50	D1		0.60	116.74		Very dense whitish light grey slightly clayey slightly sandy angular to subangular fine to coarse limestone GRAVEL with occasional shell fragments. Sand is fine to medium.	
		1.00	SPT	50 (8,17/50 for 155mm)					
		1.60	D2						

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.6m bgl, difficult to dig.	Sheet 1 of 2
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453956.76 N226355.85	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 114	Hole Type WS	Level 117.34m AoD	Logged By JM	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					2.00	115.34		Very dense whitish light grey slightly clayey slightly sandy angular to subangular fine to coarse limestone GRAVEL with occasional shell fragments. Sand is fine to medium.	2
								End of Borehole at 2.00m	

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.6m bgl, difficult to dig.	Sheet 2 of 2
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453849.84 N226192.02	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 115	Hole Type WS	Level 113.95m AoD	Logged By JM	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.30	113.65		Firm brown slightly sandy gravelly CLAY, with low cobble content and frequent rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium. Cobbles are subangular limestone (<90mm).
		0.50 0.50	D1 ES2					Firm brown slightly sandy very gravelly CLAY, with low cobble content and occasional evaporite veins and shell fragments. Gravel is angular to subangular fine to coarse limestone. Cobbles are subangular limestone (<90mm).
		0.80	D2				<i>At 0.60m bgl: Frequent evaporite veins.</i>	
		1.00 1.00	D3 SPT	N=50 (1, 7/50 for 225mm)				
					1.38	112.57		End of Borehole at 1.38m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.6m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E 453663.02 N 226189.96	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 11 6a	Hole Type WS	Level 113.90m AoD	Logged By JM	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
[Pattern]		0.00	SPT	50 (9,12/50 for 155mm)	0.05	113.84	[Pattern]	MADE GROUND: Light brown slightly silty sandy angular to subangular fine to coarse limestone GRAVEL with rare iron bolts (<20mm). Sand is fine to medium. Weak light grey LIMESTONE.
		0.02	ES1					
					0.31	113.58	[Pattern]	End of Borehole at 0.31m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.1m bgl, difficult to dig.	Sheet 1 of 1
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1

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453811.11 N225879.49	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 117	Hole Type WS	Level 114.69m AoD	Logged By EMB	Scale 1:10	Status FINAL

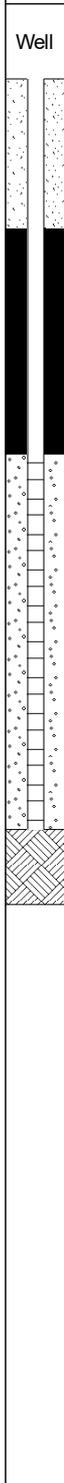
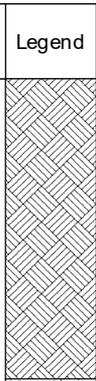
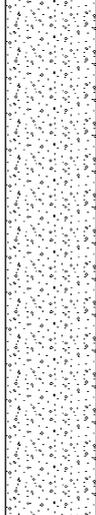
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES1		0.20	114.49		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.20	D1					
		0.25	ES2					Very dense grey interbedded (<20mm) slightly sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium. Interbedded layers consist of orange brown clayey fine to medium SAND.
		0.80	D2					
		0.80	SPT	50 (17, 8/50 for 155mm)				
					1.11	113.58		End of Borehole at 1.11m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.8m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453549.47 N225728.04	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 118	Hole Type WS	Level 112.97m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.40	112.57		Brown clayey gravelly fine to medium SAND with frequent rootlets. Gravel is subangular to subrounded fine to medium limestone.
		0.40 0.40	D1 ES2					
			1.00 1.00	D2 SPT	50 (25 for 85mm/50 for 10mm)	1.10	111.87	
								End of Borehole at 1.10m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453340.81 N225598.36	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 119	Hole Type WS	Level 112.70m AoD	Logged By EMB	Scale 1:10	Status FINAL

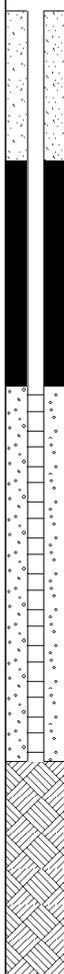
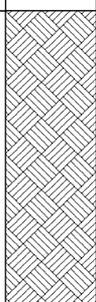
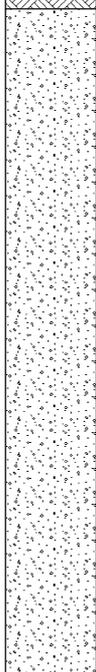
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.15	ES1		0.20	112.50		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.20	D1					
			0.50 0.50	D2 SPT	50 (25 for 80mm/50 for 185mm)	0.77	111.92	
								End of Borehole at 0.77m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.5m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453356.20 N225477.11	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 120	Hole Type WS	Level 110.91m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.40	110.51		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.40	D1					
		0.65	D2					
		0.95	SPT	50 (12,11/50 for 185mm)	1.29	109.62		End of Borehole at 1.29m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453501.46 N225461.85	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 121	Hole Type WS	Level 111.42m AoD	Logged By EMB	Scale 1:10	Status FINAL

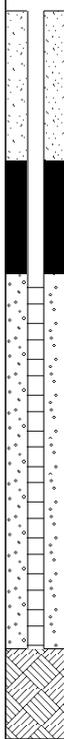
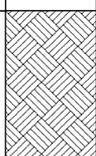
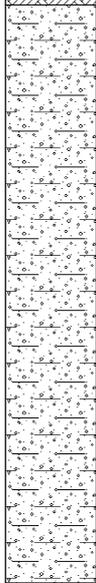
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.20	111.22		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.50	D1					Grey and orangish brown slightly clayey sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		1.00	D2					
		1.00	SPT	50 (8,12/50 for 115mm)				
					1.27	110.15		End of Borehole at 1.27m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.0m bgl. Difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453510.83 N225558.19	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 122	Hole Type WS	Level 112.17m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.20	111.97		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.50	D1					Very dense pale greyish brown very sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		0.84	D2					
		1.00	SPT	50 (25 for 60mm/50 for 60mm)	0.97	111.20		End of Borehole at 0.97m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.85m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453652.07 N225595.24	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 123	Hole Type WS	Level 112.93m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES1				Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.		
		0.30	D1						
		0.70	ES2						
		1.00	D2		1.00			111.93	Stiff brown slightly gravelly sandy CLAY. Sand is fine to medium, gravel is subangular to subrounded fine to coarse limestone.
		1.20	SPT	N=11 (3,2/3,2,3,3)					
			1.70		1.70			111.23	Very dense grey sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		1.80	D3		1.80	111.13			
		1.80	SPT	50 (25 for 15mm/50 for 0mm)					

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.2m bgl.	Sheet 1 of 2
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453652.07 N225595.24	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 123	Hole Type WS	Level 112.93m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
							End of Borehole at 1.80m		
								2	
								3	

Hole Diameter		Casing Diameter		Water Strike General			
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks	

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 1.2m bgl.	Sheet 2 of 2
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E 453627.34 N 225257.36	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 124	Hole Type WS	Level 109.04m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.30	108.74		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.30	D1					
		0.65	D2		0.75	108.28		Grey and orangish brown slightly clayey sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
		0.75	SPT	50 (25 for 135mm/50 for 155mm)				End of Borehole at 0.75m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.75m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 20/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E 452841.33 N 225057.96	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 125	Hole Type WS	Level 108.94m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.30	108.64		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.30	D1					
		0.40	ES2		0.80	108.14		Stiff brown sandy very gravelly CLAY. Gravel is subangular to subrounded fine to medium limestone, sand is fine to medium. <i>Below 0.50m bgl: Occasional calcareous concretions.</i>
		0.90	D2					
		1.00	SPT	50 (25 for 10mm/50 for 10mm)	0.99	107.95		Very dense grey sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.
							End of Borehole at 0.99m	

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.97m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E 453330.68 N 225175.60	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 126	Hole Type WS	Level 108.17m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1		0.30	107.87		Brown clayey gravelly fine to medium SAND, with frequent rootlets. Gravel is subangular to subrounded fine to medium limestone.
		0.30	D1					
		0.60 0.60	D2 SPT	50 (25 for 85mm/50 for 95mm)	0.78	107.39		End of Borehole at 0.78m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.6m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453095.83 N225443.95	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 127	Hole Type WS	Level 109.37m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Well		0.20	ES1		0.20	109.17		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.
		0.55 0.55	D1 SPT	50 (25 for 135mm/50 for 20mm)				Very dense grey interbedded (<20mm) slightly sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium. Interbedded layers consist of orange brown clayey fine to medium SAND.
					0.71	108.66		End of Borehole at 0.71m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.55m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 20/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452899.20 N225734.86	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 128	Hole Type WS	Level 107.85m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1				Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.	
		0.30	D1		0.30	107.55	Orangish brown clayey gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse limestone.	
		0.50	ES2					
		0.65 0.65	D2 SPT	N=46 (8,9/14,12,13,7)	0.65	107.20	Dense grey and orange clayey very gravelly fine and medium SAND. Gravel is subangular to subrounded fine to coarse limestone.	
		0.90	D3					
		1.00	SPT	N=23 (2,1/3,4,7,9)	1.00	106.85	Medium dense to very dense greyish mottled orange clayey sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium.	
		1.20	ES3					
	1.65 1.65	D4 SPT	50 (25 for 30mm/50 for 10mm)	1.69	106.16	End of Borehole at 1.69m		

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks
 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.65m bgl, difficult to dig.

Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 20/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452790.03 N225491.05	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 129	Hole Type WS	Level 111.46m AoD	Logged By EMB	Scale 1:10	Status FINAL

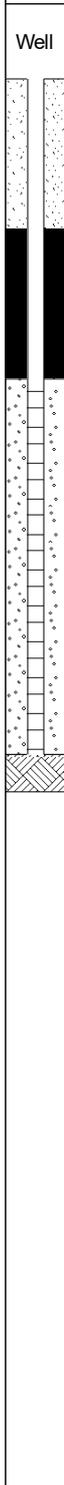
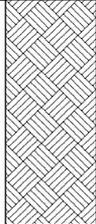
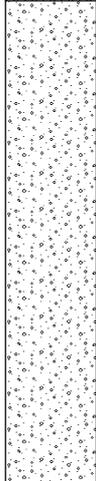
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.15	ES1					Brown clayey gravelly fine to medium SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone.
		0.20	D1					
					0.30	111.16		Brown clayey very gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse limestone.
					0.40	111.06		
			0.50 0.50	D2 SPT	50 (25 for 95mm/50 for 95mm)			
					0.69	110.77		
							End of Borehole at 0.69m	

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.5m bgl, difficult to dig.	Sheet 1 of 1
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Dynamic Sample Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453421.23 N224938.51	
Project No.: C10172		Crew Name: RGI		Drilling Equipment: Premier 110	
Borehole Number DS 130	Hole Type WS	Level 106.01m AoD	Logged By EMB	Scale 1:10	Status FINAL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	ES1				Brown clayey gravelly fine to medium SAND with frequent rootlets. Gravel is subangular to subrounded fine to medium limestone.	
		0.30	D1		0.30	105.71		Very dense grey interbedded (<20mm) slightly sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to medium. Interbedded layers consist of orange brown clayey fine to medium SAND.
		0.90 0.90	D2 SPT	50 (25 for 40mm/50 for 10mm)	0.95	105.06		End of Borehole at 0.95m

Hole Diameter		Casing Diameter		Water Strike General		
Depth Base	Diameter	Depth Base	Diameter	Depth Strike	Date Time	Remarks

Remarks 1. Terminated due to refusal on limestone gravel. 2. Groundwater not encountered. 3. Inspection pit from ground level to 0.9m bgl, difficult to dig.	Sheet 1 of 1
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453465.72 N226886.42	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO01	Hole Type RO	Level 119.06m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
												Drillers description: Brown Limestone.	1
													2
													3
													4
													5
									5.80	113.26			6
													7
													8

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.5m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.5m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 9.8m bgl on completion.	Sheet 1 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453465.72 N226886.42	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO01	Hole Type RO	Level 119.06m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
+													9
												End of Borehole at 10.00m	10
													11
													12
													13
													14
													15
													16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.5m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.5m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 9.8m bgl on completion.	Sheet 2 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453006.46 N226379.80	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO02	Hole Type RO	Level 117.24m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									0.20	117.04		Drillers description: TOPSOIL.	
												Drillers description: Brown LIMESTONE.	1
													2
													3
									4.10	113.14		Drillers description: Grey LIMESTONE.	4
									4.30	112.94		Drillers description: Brown LIMESTONE.	5
													6
									5.50	111.74			7
													8

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks
 1. Inspection pit from ground level to 0.2m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.2m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 9.8m bgl on completion.

Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453006.46 N226379.80	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO02	Hole Type RO	Level 117.24m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring				Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD							
+														9
													End of Borehole at 10.00m	10
														11
														12
														13
														14
														15
														16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.2m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.2m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 9.8m bgl on completion.	Sheet 2 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452464.63 N226045.00	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO03	Hole Type RO	Level 119.20m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring				Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD	Diameter Recovery (SPT)					
									0.20	119.00		Drillers description: TOPSOIL.	
												Drillers description: Brown LIMESTONE.	1
													2
													3
													4
									5.10	114.10		Driller description: Grey CLAY.	5
									5.30	113.90		Driller description: Grey LIMESTONE.	6
													7
													8

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.2m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.2m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 6.3m bgl on completion.	Sheet 1 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452464.63 N226045.00	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO03	Hole Type RO	Level 119.20m AoD		Logged By JAM	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
												Driller description: Grey LIMESTONE.	9
									10.00	109.20		End of Borehole at 10.00m	10
													11
													12
													13
													14
													15
													16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

<p>Remarks</p> <p>1. Inspection pit from ground level to 0.2m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.2m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 6.3m bgl on completion.</p>	Sheet 2 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453198.00 N225952.82	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO04	Hole Type RO	Level 110.30m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									0.30	110.00		Drillers description: TOPSOIL.	
												Drillers description: Brown LIMESTONE.	1
									2.20	108.10		Driller description: Grey CLAY.	2
									2.40	107.90		Drillers description: Grey LIMESTONE with CLAY bands.	3
													4
													5
													6
													7
													8

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks
 1. Inspection pit from ground level to 0.3m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.3m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 7.1m bgl on completion.

Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 13/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453198.00 N225952.82	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO04	Hole Type RO	Level 110.30m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									10.00	100.30		Drillers description: Grey LIMESTONE with CLAY bands.	9
												End of Borehole at 10.00m	10
													11
													12
													13
													14
													15
													16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.3m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.3m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 7.1m bgl on completion.	Sheet 2 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453694.82 N226429.88	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO05	Hole Type RO	Level 110.67m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									0.80	109.87		Drillers description: TOPSOIL.	
												Drillers description: Brown LIMESTONE.	1
													2
													3
													4
									5.10	105.57		Drillers description: Grey CLAY with grey LIMESTONE bands.	5
													6
													7
													8

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks
 1. Inspection pit from ground level to 0.8m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.8m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 3.5m bgl on completion.

Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453694.82 N226429.88	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO05	Hole Type RO	Level 110.67m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									10.00	100.67		Drillers description: Grey CLAY with grey LIMESTONE bands.	9
												End of Borehole at 10.00m	10
													11
													12
													13
													14
													15
													16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

<p>Remarks</p> <p>1. Inspection pit from ground level to 0.8m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.8m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 3.5m bgl on completion.</p>	Sheet 2 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453737.96 N225738.65	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO06	Hole Type RO	Level 113.64m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									0.20	113.44		Drillers description: TOPSOIL.	
									0.50	113.14		Drillers description: GRAVELS.	
												Drillers description: Brown LIMESTONE.	1
													2
													3
													4
													5
													6
									6.90	106.74		Drillers description: Grey CLAY with thin grey LIMESTONE bands.	7
													8

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks
 1. Inspection pit from ground level to 0.2m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.2m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 8.1m bgl on completion.

Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 16/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453737.96 N225738.65	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO06	Hole Type RO	Level 113.64m AoD		Logged By JAM	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									10.00	103.64		Drillers description: Grey CLAY with thin grey LIMESTONE bands.	9
												End of Borehole at 10.00m	10
													11
													12
													13
													14
													15
													16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.2m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.2m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 8.1m bgl on completion.	Sheet 2 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453327.63 N225174.34	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO07	Hole Type RO	Level 97.56m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									0.30	97.26		Drillers description: TOPSOIL.	
												Drillers description: Brown LIMESTONE.	1
													2
													3
									3.60	93.96		Drillers description: Grey LIMESTONE.	4
													5
													6
									6.40	91.16		Drillers description: Grey CLAY with thin grey LIMESTONE bands.	7
													8

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks
 1. Inspection pit from ground level to 0.3m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.3m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 7.2m bgl on completion.

Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453327.63 N225174.34	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO07	Hole Type RO	Level 97.56m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									10.00	87.56		Drillers description: Grey CLAY with thin grey LIMESTONE bands.	9
												End of Borehole at 10.00m	10
													11
													12
													13
													14
													15
													16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.3m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.3m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 7.2m bgl on completion.	Sheet 2 of 2
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Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452624.71 N225408.47	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO08	Hole Type RO	Level 111.74m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									0.90	110.84		Drillers description: Dig pit/TOPSOIL.	
												Drillers description: Brown LIMESTONE.	1
													2
													3
													4
									4.60	107.14		Driller description: Grey LIMESTONE.	5
									5.10	106.64		Driller description: Grey CLAY with LIMESTONE bands.	6
													7
									7.40	104.34		Drillers description: Grey LIMESTONE.	8
									8.00				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks
 1. Inspection pit from ground level to 0.9m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.9m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 7.2m bgl on completion.

Rotary Core Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452624.71 N225408.47	
Project No.: C10172		Crew Name: ACE Drilling Services		Drilling Equipment: Beretta T44	
Borehole Number RO08	Hole Type RO	Level 111.74m AoD	Logged By JAM	Scale 1:40	Status FINAL

Well	Water	Depth (m)	Type	FI	Coring			Diameter Recovery (SPT)	Depth (m)	Level (m)	Legend	Stratum Description	
					TCR	SCR	RQD						
									8.40	103.74		Drillers description: Grey CLAY.	
										103.34		Drillers description: Grey LIMESTONE.	9
									10.00	101.74		End of Borehole at 10.00m	10
													11
													12
													13
													14
													15
													16

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				Drilling Flush					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	Depth Top	Depth Base	Type	Colour	Min (%)	Max (%)

Remarks 1. Inspection pit from ground level to 0.9m bgl, stopped due to difficult digging. 2. Rotary open hole from 0.9m to target depth. 3. Monitoring standpipe installed to hole base on completion. 4. Groundwater level measured at 7.2m bgl on completion.	Sheet 2 of 2
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 21/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453796.14 N226574.08	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA01	Location Type TP	Level 115.06m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled					0.30	114.76		Firm dark brown slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to subangular fine to coarse limestone. Sand is fine to medium.
					1.35	113.71		Dark brown becoming light brown clayey sandy angular to subangular fine to coarse limestone GRAVEL, with a low to medium cobble and a low boulder content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <220mm subrounded of weak to moderately strong limestone.
					1.69	113.37		Light brown clayey very gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse limestone, sand is fine to coarse.
					1.70	113.36		Weak to moderately strong light grey LIMESTONE. End of Trial Pit at 1.70m

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length 2.70	Pit Width 0.70	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time

Remarks 1. Groundwater not encountered. 2. Minor collapse of test pit sides during soakaway test. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 21/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453719.10 N226063.77	
Project No. : C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA02	Location Type TP	Level 115.17m AoD	Logged By JAM	Scale 1:10	Status FINAL

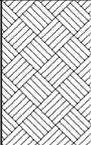
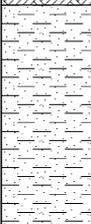
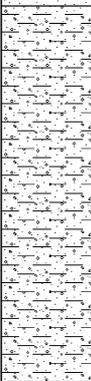
Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.20	ES1		0.30	114.87		Firm dark brown slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to subangular fine to coarse limestone. Sand is fine to medium.
		0.40	D1		0.65	114.52		Light brown clayey sandy angular to subangular fine to coarse limestone GRAVEL. Sand is fine to medium.
		0.90	D2		1.50	113.67		Light brown clayey sandy angular to subangular fine to coarse limestone GRAVEL, with a low to medium cobble. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone.
								End of Trial Pit at 1.50m

Dimensions		Trench Support and Comment			Water Stake General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.70	0.70					

Remarks 1. Groundwater not encountered. 2. Minor collapse of test pit sides during soakaway test. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 22/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453384.07 N226118.09	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA03	Location Type TP	Level 110.67m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.10	ES 1		0.20	110.47		Dark brown slightly gravelly clayey fine and medium SAND with frequent rootlets. Gravel is angular to subangular fine to coarse limestone.
		0.30	ES 2		0.50	110.17		Firm brown slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.60	D1		1.00	109.67		Firm orangish brown slightly sandy gravelly CLAY. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		1.10	D2		1.20	109.47		Firm light brown mottled light grey slightly gravelly silty CLAY with occasional shell fragments and calcareous concretions. Gravel is angular to subangular fine to coarse limestone.
		1.25	D3		1.30	109.37		Firm light grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse limestone.
					1.35	109.32		Weak light grey LIMESTONE.

Dimensions		Trench Support and Comment			Water Stake General	
Pit Length 2.70	Pit Width 0.70	Pit Stability	Shoring Used	Remarks	Depth Strike 1.30	Date Time

Remarks 1. Groundwater encountered at 1.3m bgl. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452510.93 N226215.99	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA04	Location Type TP	Level 121.30m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.10	ES 1		0.25	121.05		Firm dark brown slightly sandy slightly gravelly silty CLAY, with occasional rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.50 0.50	D1 ES 2		0.60	120.70		Firm brown slightly sandy gravelly CLAY, with low cobble content. Gravel is subangular fine to medium limestone, cobbles are <90mm angular to subangular of extremely weak to weak limestone, sand is fine to medium.
		1.00	D2		1.10	120.20		Light yellowish brown clayey sandy angular to subangular fine to coarse limestone GRAVEL with low boulder and medium cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <220mm subrounded of weak to moderately strong limestone.
								End of Trial Pit at 1.10m

Dimensions		Trench Support and Comment			Water Stake General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
1.70	0.60					

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.						Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 22/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452923.70 N225852.00	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA05	Location Type TP	Level 109.45m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.10	ES 1				Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.	
		0.40	ES 2		109.15		Firm light brown becoming dark greyish brown slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.	
		0.60	D1		108.95		Soft to firm dark greyish brown slightly gravelly silty CLAY with occasional calcareous concretions. Gravel is angular to subangular fine to coarse limestone.	
		1.00		HVP=34				
		1.30	D2		1.20	108.25		Firm yellowish brown mottled light grey and orange slightly sandy clayey angular to subangular fine to coarse limestone GRAVEL. Sand is fine to medium.
				1.50	107.95		End of Trial Pit at 1.50m	

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length 2.40	Pit Width 0.70	Pit Stability	Shoring Used	Remarks		Depth Strike
						Date Time

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453474.75 N226675.07	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA06	Location Type TP	Level 114.76m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
Backfilled		0.20	ES1		0.30	114.46		Firm dark brown slightly sandy slightly gravelly silty CLAY, with occasional rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.	
		0.50 0.50	D1 ES2		0.70	114.06		Firm brown slightly sandy gravelly CLAY, with low cobble content. Gravel is subangular fine to medium limestone, cobbles are <90mm angular to subangular of extremely weak to weak limestone, sand is fine to medium.	
		1.00	D2		1.10	113.66		Light yellowish brown clayey sandy angular to subangular fine to coarse limestone GRAVEL with low boulder and medium cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <220mm subrounded of weak to moderately strong limestone.	1
								End of Trial Pit at 1.10m	2

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
1.70	0.60					

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 21/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453346.00 N225796.00	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA07	Location Type TP	Level 112.79m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.10	ES 1		0.25	112.54		Firm dark brown slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to subangular fine to coarse limestone. Sand is fine to medium.
		0.50	D1		0.90	111.89		Dark brown becoming light brown clayey sandy angular to subangular fine to coarse limestone GRAVEL, with a low to medium cobble and a low boulder content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <220mm subrounded of weak to moderately strong limestone.
		1.00	D2		1.24	111.55		Stiff light yellowish brown slightly gravelly sandy CLAY. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
					1.25	111.54		Weak to moderately strong light grey LIMESTONE. End of Trial Pit at 1.25m

Dimensions		Trench Support and Comment			Water Stake General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.60	0.70					

Remarks
 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.

Sheet 1 of 1

Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 23/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453125.86 N225607.69	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA08	Location Type TP	Level 109.84m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.15	ES1		0.30	109.54		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.50	D1					Light brown slightly clayey to clayey sandy angular to subangular fine to coarse limestone GRAVEL, with a low to medium cobble. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone.
		1.10 1.10	B1 D2		1.35	108.49		
								End of Trial Pit at 1.35m

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.40	0.70					

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 23/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452835.06 N225345.30	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA09	Location Type TP	Level 108.92m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled					0.30	108.62		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.70	B1					Light yellow brown slightly clayey sandy angular to subrounded fine to coarse extremely weak to weak limestone GRAVEL and COBBLES with low boulder content. Sand is fine to medium, boulders are <250mm subrounded of weak to moderately strong limestone.
					1.16	107.76		End of Trial Pit at 1.16m

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.70	0.70					

Remarks 1. Groundwater not encountered. 2. Collapse of test pit sides between 0.3 m and 1.16m bgl. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RF1		Client: BWB Consulting Ltd		Date: 23/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453419.36 N225257.96	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA10	Location Type TP	Level 108.70m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.10	ES 1		0.30	108.40		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.40	ES 2		0.55	108.15		Firm brown slightly sandy very gravelly CLAY, with occasional rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.60	D1		1.00	107.50		Light brown slightly clayey to clayey sandy angular to subangular fine to coarse limestone GRAVEL, with a low to medium cobble. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone.
		1.00	D2		1.20	107.50		End of Trial Pit at 1.20m

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.70	0.70					

Remarks
 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.

Sheet 1 of 1

Trial Pit Log

Project Name: Oxfordshire RF1		Client: BWB Consulting Ltd		Date: 14/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E452905.04 N226390.96	
Project No. : C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number SA11	Location Type TP	Level 120.58m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.20	ES1		0.30	120.28	Backfilled	Firm dark brown slightly sandy slightly gravelly silty CLAY, with occasional rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.50	ES2					Backfilled
		0.60	D1		1.10	119.48		

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
1.60	0.60					

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453473.75 N227177.03	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number TP 103	Location Type TP	Level 124.49m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.20	ES1		0.30	124.19	Backfilled	Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular fine to coarse limestone, sand is fine to medium.
		0.50 0.50	D1 ES2					Brown becoming light brown with depth slightly clayey to clayey sandy angular to subangular fine to coarse limestone GRAVEL with low boulder and medium cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <240mm subrounded of weak to moderately strong limestone.
					0.95	123.54	Backfilled	End of Trial Pit at 0.95m

Dimensions		Trench Support and Comment			Water Stake General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.40	0.70	Stable				

Remarks
 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.

Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453580.13 N226992.91	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number TP104	Location Type TP	Level 121.41m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
Backfilled		0.20	ES1		0.30	121.11	Backfilled	Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular fine to coarse limestone, sand is fine to medium.	
		0.40	ES2					Backfilled	Brown becoming light brown with depth slightly clayey to clayey sandy angular to subangular fine to coarse limestone GRAVEL with low boulder and medium cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <240mm subrounded of weak to moderately strong limestone.
		0.50	D1						
		1.00	D2		1.00	120.41		End of Trial Pit at 1.00m	1

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.40	0.70	Stable				

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453643.50 N226819.39	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number TP 105	Location Type TP	Level 116.93m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.20	ES1		0.30	116.63		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular fine to coarse limestone, sand is fine to medium.
		0.40	D1		0.50	116.43		Firm brown becoming light brown sandy very gravelly CLAY with occasional rootlets. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		0.80	D2		1.10	115.83		Yellowish brown and light grey clayey sandy angular to subangular fine to coarse limestone GRAVEL with low cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone.
		1.20	D3		1.35	115.58		Stiff yellowish brown and light grey slightly sandy gravelly CLAY, with frequent calcareous concretions and shell fragments. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
					1.40	115.53		Weak to moderately strong light grey LIMESTONE.
								End of Trial Pit at 1.40m

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.40	0.70	Stable				

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 15/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453653.00 N226666.00	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number TP 106	Location Type TP	Level 114.95m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfill	▼	0.20	ES1		0.30	114.65		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular fine to coarse limestone, sand is fine to medium.
		0.50	D1		0.80	114.15		Yellowish brown and light grey clayey sandy angular to subangular fine to coarse limestone GRAVEL with low cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone.
		0.50	ES2					Stiff yellowish brown and light grey slightly sandy gravelly CLAY, with frequent calcareous concretions and shell fragments. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		1.00	D2		1.20	113.27		Weak to moderately strong light grey LIMESTONE.
		1.20		HVP=124				End of Trial Pit at 1.70m
1.50	D3		1.68	113.25				

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.40	0.70	Stable			1.68	

Remarks 1. Groundwater encountered at 1.68m bgl, moderate flow. 2. No collapse. 3. Backfilled with arisings on completion.						Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E453851.02 N226787.30	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number TP 107	Location Type TP	Level 117.03m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.20	ES1		0.30	116.73		Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular fine to coarse limestone, sand is fine to medium.
		0.40	ES2		0.80	116.23		Yellowish brown and light grey clayey sandy angular to subangular fine to coarse limestone GRAVEL with low cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone.
		0.50	D1					
		1.00	D2		1.40	115.63		Firm light brown slightly sandy gravelly CLAY, with occasional evaporite veins. Gravel is angular to subangular fine to coarse limestone, sand is fine to medium.
		1.50	D3		1.60	115.43		Light yellowish brown clayey sandy angular to subangular fine to coarse limestone GRAVEL with low boulder and medium cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <240mm subrounded of weak to moderately strong limestone.
		1.70	D4		1.78	115.25		Firm light brown slightly sandy slightly gravelly CLAY, with occasional evaporite veins and shell fragments. Gravel is angular to subangular fine to coarse limestone, sand is fine.
					1.80	115.23		Weak to moderately strong light grey LIMESTONE.
								End of Trial Pit at 1.80m

Dimensions		Trench Support and Comment			Water Strike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.40	0.70	Stable				

Remarks 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.	Sheet 1 of 1
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Trial Pit Log

Project Name: Oxfordshire RFI		Client: BWB Consulting Ltd		Date: 17/09/2021	
Location: Oxfordshire		Contractor: Exploration & Testing		Co-ords: E 45391 3.35 N22664 5.03	
Project No.: C10172		Crew Name: T&A Cox		Equipment: JCB 3CX	
Location Number TP 108	Location Type TP	Level 117.57m AoD	Logged By JAM	Scale 1:10	Status FINAL

Backfill	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
Backfilled		0.10	ES 1				Firm dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse limestone. Sand is fine to medium.	
		0.40 0.40	D1 ES 2		0.30 117.27		Firm brown slightly gravelly sandy CLAY, with occasional rootlets. Gravel is subangular fine and medium limestone, sand is fine to medium.	
		0.60	D2		0.50 117.07		Light yellowish brown clayey sandy angular to subangular fine to coarse limestone GRAVEL with low boulder and medium cobble content. Sand is fine to medium, cobbles are angular to subangular of extremely weak to weak limestone, and boulders are <240mm subrounded of weak to moderately strong limestone.	
		1.00	D3		1.60 115.97		End of Trial Pit at 1.60m	

Dimensions		Trench Support and Comment			Water Stike General	
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Depth Strike	Date Time
2.40	0.70	Stable				

Remarks
 1. Groundwater not encountered. 2. Stable. 3. Backfilled with arisings on completion.