

Brookhurst Wood - Sites G and H Geoenvironmental Report

Biffa Waste Services Ltd

June 2010

CAPITA SYMONDS

Quays Office Park, Conference Avenue, Portishead, Bristol BS20 7LZ Tel 01275 840840 Fax 01275 840830 www.capitasymonds.co.uk Capita Symonds Ltd

www.capitasymonds.co.uk

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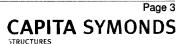
Executive Summary

- 1.1 Capita Symonds Limited were appointed by Biffa Waste Services Limited to carry out a geoenvironmental ground investigation for a former brickworks site near Warnham in West Sussex, and to produce a remediation strategy. This report is also provided for West Sussex County Council and M+W Group Limited only.
- 1.2 The brickworks site and adjacent clay pits have been divided into different units for development planning. The subject of this report is the area designated as sites G and H, occupying about 8.8ha. This is bounded by the railway line to the west and the access road to the landfill to the east. The southern boundary is the Wienerberger Brick Works, which remains operational. The northern boundary is the slope up to the Biffa yard and offices.
- 1.3 Capita Symonds previously carried out a desk study and ground investigation of the site in 2005 for Gazeley Limited. The purpose of the present ground investigation was to complement the previous work and to obtain samples for additional contamination testing to allow assessment to current procedures. The results from both investigations are assessed in this report.
- 1.4 The site is a former brickworks. Most of the site is level ground on which numerous disused factory buildings remain. The underlying geology is Weald Clay which was quarried from brick pits to the east. The eastern and north eastern parts of the site have been raised with Made Ground, and there are two ponds in the south east part of the site.
- 1.5 The site had previously been used by several generations of brickworks, the main legacy being several old kiln locations mainly in the western part of the site, where the ground has been locally baked.
- 1.6 Seventy-three trial holes including boreholes, trial pits and dynamic sample holes were put down in 2005, and a further 19 window sample holes were carried out in 2010. The 2005 investigation found petroleum hydrocarbons and polyaromatic hydrocarbons (PAH) contaminating several areas, but otherwise the site was found to be uncontaminated. The objective of the 2010 investigation was to carry out additional testing to enable assessment to current standards and procedures (using the CLEA methodology). The investigation generally confirmed the absence of contamination with the exception of hydrocarbons, but also located a hotspot of nickel contamination within the area of Made Ground.
- 1.7 Results showed that the petroleum hydrocarbons have apparently substantially diminished in the intervening period, as this type of contamination tends to decay naturally. They were identified as diesel range, and the assessment showed that they do not require any remediation for commercial or industrial type development.
- 1.8 The risk assessment also showed that the PAH and nickel contamination will not require remediation if they are covered with building slabs or hardstanding, which is most likely to be the case in commercial or industrial development.

- 1.9 Gas monitoring showed that no precautions are necessary with respect to landfill gas over the majority of the site, but that some consideration may be needed for development in the north eastern part, particularly for commercial type development. This could comprise subfloor ventilation or a high specification gas-proof membrane.
- 1.10 Thus, the site can be regarded as uncontaminated for the purpose of commercial or industrial development, as long as hard cover is provided to the small areas of PAH and nickel contamination, and no remediation is necessary.
- 1.11 This report is for the use of Biffa Waste Services Limited, West Sussex County Council and M+W Group Limited only and should not be relied upon by other parties unless specifically advised by Capita Symonds Ltd in writing.

2. Introduction

- 2.1 Capita Symonds Limited were appointed by Biffa Waste Services Limited to carry out a geoenvironmental ground investigation for a former brickworks site near Warnham in West Sussex, and to produce a remediation strategy. This report is also provided for West Sussex County Council and M+W Group Limited.
- 2.2 The brickworks site and adjacent clay pits have been divided into different units for development planning. The subject of this report is the area designated as Sites G and H. Site H is subdivided into Sites Ha and Hb, Ha being the northern half of Area H and Hb the southern half. The site is bounded by the railway line to the west and the access road to the landfill to the east. The southern boundary is on a line extending from the northern side of the access road to the Wienerberger Brick Works, which remains operational. The northern boundary is a line passing along the toe of the slope up to the Biffa yard and offices. The location of the site is shown on plans in Appendix A.
- 2.3 Capita Symonds previously carried out a desk study and ground investigation of the site in 2005 for Gazeley Limited. The results are contained in our report reference CS007890/CMD/05-1191/R dated August 2005, and the relevant logs and test results are included in Appendix C to this report. Biffa inform us that they are entitled to rely on this report.
- 2.4 The 2005 investigation was carried out to support possible development comprising warehouse units. The work included a desk study, fourteen dynamic sampling holes, ten cable percussion boreholes and 49 trial pits. Twenty monitoring standpipes were installed. Laboratory testing was carried out for both geotechnical and contamination purposes.
- 2.5 The purpose of the present ground investigation was to complement the previous work and to obtain samples for additional contamination testing to allow assessment to current procedures. A total of nineteen window sample holes were put down during March 2010. Samples were also taken of the silt and water within the ponds.
- 2.6 This report provides a summary of the desk study information. This is based on the 2005 investigation, but also refers to more recent environmental searches carried out in 2009 as part of the desk study for the adjacent Site F. This report also gives the results of the present investigation and provides an interpretation and assessment of all the data relating to contamination and the need for remediation.
- 2.7 This report is for the use of Biffa Waste Services Limited, West Sussex County Council and M+W Group Limited only and should not be relied upon by other parties unless specifically advised by Capita Symonds Ltd in writing.



3. The Site

- 3.1 The site is located within a former brickworks near Warnham in West Sussex. It lies approximately 5km to the north of Horsham off Langhurstwood Road. The approximate National Grid Reference of the centre of the site is 517050, 134500. A site location plan is given in Appendix A.
- The site occupies about 8.8ha, measuring about 490m from north to south and between 150m and 225m from west to east.
- 3.3 The Dorking to Horsham railway line forms the site boundary to the west, and the access road to the landfill is the eastern boundary. The southern boundary is on a line extending from the northern side of the access road to the Wienerberger Brick Works, which remains operational. The northern boundary is a line passing along the toe of the slope up to the Biffa yard and offices.
- 3.4 The topography of the site is mainly flat, but there is raised ground along much of the eastern boundary before a steep bank down to the access road to the landfill.
- The site is taken up by old factory buildings and yards over most of its area, except for a strip of raised ground on the eastern boundary in the northern part, and two ponds in the east of the central area with open scrub-covered ground to the north of them.
- A workshop at the very northern part of the site and some nearby small buildings were still in use at the time of the investigation, but the rest of the buildings are disused. One of the hardstandings near the centre of the site within Site G was being used for brick storage, and the open area to the south of it was used for parking skips and general materials storage. Some materials storage was also taking place on the hardstanding by the site access in the south east. There is a relatively new compound by the access track in the east-central part of the site, and this houses gas pumping equipment serving the adjacent landfill.
- 3.7 A walkover survey to identify potential sources of contamination identified several tanks on the site, and an old electricity substation in the middle of the site. The disused electricity substation compound possibly incorporated other plant room facilities within small brick buildings. Three tanks were noted around the yard to the south of the workshop by the northern boundary. Three further tanks are located on the northern side of two smaller old factory buildings in the centre of the site, one of which had been removed, and there was a small tank on the eastern boundary near the site access in the south.
- To the north of the ponds there is an area within a low bund that was once probably a pond or silt lagoon but is now backfilled supporting rough grass vegetation.
- 3.9 Beyond the boundary and the railway to the west the land is occupied by woods and farming. There is an operational brickworks to the south of the site. To the east, the land is an old clay pit serving the brickworks, and the northern part of this rises up to a recently restored landfill. To the north is a yard containing offices, beyond which is a waste treatment compound and a landfill.



4. Environmental Setting

Geology

The British Geological Survey 1:63,360 geology map Sheet 302 – Horsham Solid and Drift indicates the geology beneath the site to be underlain by Weald Clay of Cretaceous age. The strata are indicated to be dipping gently to the north at 7 degrees. The Weald Clay is generally a stiff to hard dark grey silty clay or weak mudstone, often containing thin limestone or sandstone bands and with clay ironstone beds in its lower formation. The most significant of these beds is the Horsham Stone that is a calcareous sandstone, used for roofing and aggregate. This bed is shown to outcrop about 70m south of the access road to the brickworks. A small limestone band is marked outcropping just to the north of the site, and will not occur beneath the site. No other sandstone or limestone beds are marked that would be encountered on the site.

Hydrogeology

- The Environment Agency (EA) operates a classification system to categorise the importance of groundwater resources (aquifers) and their sensitivity to contamination. From 1st April 2010 new aquifer designations have been introduced to replace the old system of classifying aquifers as Major, Minor and Non-Aquifer. This new system is in line with the EA's Groundwater Protection Policy (GP3) and the Water Framework Directive (WFD) and is based on British Geological Survey mapping. Aquifers are now classified as Principal, Secondary A and Secondary B based on the amenity value of the resource. A separate classification has been given for superficial deposits and bedrock.
- A Principal Aquifer is defined as layers of rock or drift deposits that have high intergranular and/or fracture permeability meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer. A Secondary A aquifer comprises permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers. A Secondary B aquifer comprises predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers. Unproductive strata are those which provide no water bearing potential.
- The Groundwater Aquifer Map published by the Environment Agency on its website records the site to be on unproductive strata.
- 4.5 To protect drinking water from pollution, the EA has designated groundwater Source Protection Zones (SPZ) around major groundwater abstraction points. The zones restrict the type of activities and development permitted within their boundaries to protect the groundwater reserves. The site is not within a groundwater source protection zone.



4.6 There is one abstraction licence in the area, and this relates to surface water abstracted for brick making. It is understood that water is abstracted from the ponds on Site F.

Hydrology

- 4.7 The nearest water course is Boldings Brook which flows from north to south on the western side of the railway. At its nearest point it is about 40m from the site boundary. There is a spring flowing into this brook that arises about 100m south west of the site boundary. This is probably associated with the outcrop of the Horsham Stone.
- 4.8 There are two ponds on the site. Two other ponds are located on Site F to the east.
- 4.9 There are discharge consents for disposal to the stream to the west from both the old brickworks and the existing Wienerberger works. There is also a revoked consent for discharge to the stream from the Cleanaway landfill.

Radon

4.10 Map 5 contained in the Radon Atlas of England and Wales shows the site is in an area not affected by radon.

Site Sensitivity

4.11 The site sensitivity map contained in the Envirocheck Report for the MRMC site to the east records the site to be in a nitrate sensitive zone.

Waste

- 4.12 The landfill site to the east, Warnham Landfill, has a Waste Management Licence previously held by Cleanaway Limited, who are now part of Veolia Environmental Services (UK) plc, but which was transferred to Biffa Waste Services Limited in 2009. The licence status is reported to be 'active' in the 'boundaries' section of the Envirocheck report, but is listed as 'closed' in the 'locations' section. It is licensed for co-disposal. A superseded licence authorised asbestos, household, commercial and industrial waste and treated leachate.
- 4.13 Brookhurst Wood Landfill site to the north of the Cleanaway site is Permitted to Biffa Waste Services Limited, and was able to accept a wide range of waste. Both Warnham and Brookhurst Wood Landfills are subject to an EP application for extended landfill activity.
- 4.14 The site sensitivity map contained in the Envirocheck Report for the MRMC site to the east records the site to be a Local Authority Recorded Landfill site.
- 4.15 IPPC applications affecting the site relate to the adjacent landfill and to the brickworks manufacture. This included one air pollution enforcement notice in 2004.

Hazardous Substances

4.16 The COMAH and NIHHS entries in the Envirocheck Report for the MRMC site relate to the brickworks and do not appear to be current. The Planning Hazardous Substance consent was for the former LPG depot present on the MRMC site (Site F).



Industrial Land Use

4.17 The principal Trade Directory entries in the proximity of the site relate to the brickworks and waste operations. Also recorded are vehicle servicing and repairs. The brickworks to the south of the site remains operational.

Site History

- 5.1 The site history is summarised based on the information contained in the Capita Symonds 2005 report for Gazeley Ltd and historical maps for the adjacent MRMC site contained in the Capita Symonds 2009 report.
- 5.2 The brickworks development dates from the early 20th century, beginning in the south of the site and spreading north, with the clay pits being developed to the east and north of the brickworks. The brickworks appear to have been extended and redeveloped over several decades. While the development records are incomplete, it is apparent that a succession of buildings have occupied the western half of the site, including several kilns. The kilns identifiable on the old mapping are generally within about 50m of the railway boundary, the 1976 map showing a line of 8 kilns.
- 5.3 The steep bank on the eastern boundary is the edge of the old clay pit. The track entering the site from the east near the middle of the site appears to be over a ramp down into the clay pits.
- 5.4 The pond was established early in the site development. The only buildings identifiable immediately north of the pond are those currently remaining, apart from a chimney marked at the location of what appears now to be an infilled pond or possibly a silt lagoon.

6. Site Conceptual Model

Overview

- 6.1 The general approach taken to dealing with past land contamination is one of risk management comprising identification and assessment of risks followed by mitigation and monitoring if required. The procedures used within this report are consistent with those defined within Part IIA Guidance and the Model Procedures for the Management of Land Contamination, Contaminated Land Report (CLR) 11 produced by the Department of Environment, Food and Rural Affairs (DEFRA) and the Environment Agency.
- 6.2 Within the context of land contamination there are three essential elements to any potential risk:
 - A source substance that is in or under the land and has the potential to cause harm or to cause pollution of Controlled Waters
 - A receptor in general terms, something that could be adversely affected by a contaminant, such as people, an ecological system, property, or a water body; and
 - A pathway a route or means by which a receptor can be exposed to, or affected by, a contaminant.
- Each of the above can exist independently, but they create a risk only where they are linked together, so that a particular contaminant affects a receptor through a particular pathway. This kind of linked combination is known as the Source (contaminant) Pathway Receptor (SPR) risk assessment model. Formulation of an outline conceptual model allows the identification and assessment of potential pollutant linkages.

Potential Sources

- 6.4 Contamination associated with the former brickworks will principally relate to the fuel for the kilns, with possible spillage or leakage of oil from storage tanks or supply lines. Disposal of ash from coal-fired kilns may contain metals, polyaromatic hydrocarbons (PAH) and sulphates.
- 6.5 The electricity substation is a potential source of PAH and PCB contamination.
- 6.6 Contamination could have accumulated in the silt within the ponds.
- 6.7 Any areas of Made Ground on site could contain contaminated soil and may produce gas, but the source of the waste comprising principally reject clay and bricks is not expected to produce significant contamination.
- 6.8 Contaminants that could migrate from the adjacent railway include hydrocarbons and PAH.
- 6.9 The landfills to the north and north east will be a source of landfill gas and potentially contaminated leachate.
- 6.10 Radon gas is not indicated to be a potential source in this area.



Potential Receptors

- 6.11 The potential receptors considered in line with the Environmental Protection Act 1990 Part IIA were:
 - Human Health
 - Controlled waters
 - Property in the form of buildings
 - **Ecology**
- 6.12 Human health includes future users of the site including maintenance staff and construction workers.
- 6.13 The site is not within a groundwater source protection area, and is largely underlain by a non-aquifer. However, the groundwater is considered to be a potential receptor.
- There are currently water bodies on site that are receptors. 6.14
- 6.15 The proposed buildings and services for the proposed developments are potential receptors.
- 6.16 There are no significant ecological receptors located on or close to the site, and this receptor will not be considered further.

Pathways

- 6.17 Migration pathways are mechanisms by which contaminants can reach a target or receptor, from a potential source. Pathways can be categorised as air, land and water based. The following pathways have been considered:
 - migration of contaminants with sub surface infiltration,
 - shallow ground water flow,
 - airborne,
 - direct dermal contact with soil/groundwater contaminants,
 - ingestion and/or inhalation of contaminants, and
 - plant uptake.
- 6.18 The plant uptake pathway will not be present following development, and the current use does not involve cultivation, so this will not be considered further.

Risk Assessment

6.19 The preliminary risk assessment is summarised in Table 5.1. This forms the basis of the outline site conceptual model, which is presented in Appendix B.



Table 5.1 - Preliminary Source-Pathway-Receptor Risk Assessment

| Potential Source | Potential Pathway | Potential | Potential for a source-pathway- |
|---|--|------------------------|---|
| | W. | Receptor | receptor Linkage |
| Potential contaminants within Soils – fuel spillages | Migration of contaminants with sub surface infiltration and shallow groundwater flow | Controlled waters | Low – Soils are generally very low permeability with high attenuation |
| Potential contaminants within Soils – fuel spillages | Ingestion, Direct contact | Human Health | Low – Much of the soil will be covered by the proposed development. Moderate – During construction, but car be mitigated by appropriate ppe. |
| Potential contaminants within Soils (Made Ground) | Migration of contaminants with sub surface infiltration and shallow groundwater flow | Controlled waters | Low – Significant contamination is unlikely, soils are generally very low permeability with high attenuation |
| Potential contaminants within Soils – leakages from electricity substation | Migration of contaminants with sub surface infiltration and shallow groundwater flow | Controlled waters | Low - Soils are generally very low permeability with high attenuation |
| Potential contaminants within Soils – leakages from electricity substation | Ingestion | Human Health | Moderate – PAH may penetrate plastic water supply pipes |
| Potential contaminants within Soils – leakages from electricity substation | Direct contact | Human Health | Low – Much of the soil will be covered by the proposed development. Moderate – During construction, but car be mitigated by appropriate ppe. |
| Potential contaminants within Soils (Made Ground) | Ingestion | Human Health | Low – Significant contamination is unlikely. Much of the soil will be covered by the proposed development. |
| Potential contaminants within Soils (Made Ground) | Direct contact | Human Health | Low – Significant contamination is unlikely. Much of soil will be covered by the proposed development. Possible consideration for construction workers but can be mitigated by appropriate PPE. |
| Potential contaminants within Soils (Made Ground and natural ground) | Direct contact with foundations, services and migration within groundwater | Buildings, services | Moderate — Sulphates known to occur naturally in Weald Clay, but ground is impermeable. |
| Potential contaminants within pond silt | Direct contact / ingestion | Human Health | Low – Potential for direct contact is limited. Possible consideration for construction workers if ponds are to be cleared but can be mitigated by appropriate PPE. |
| Potential contaminants within pond silt | Migration of contaminants with sub surface infiltration | Controlled waters | Low Limited quantity of silt. Underlying soils are generally very low permeability with high attenuation. |

| Potential Source | Potential Pathway | Potential Receptor | Potential for a source-pathway- receptor Linkage |
|--|--|-----------------------|--|
| Potential contaminants from railway land | Migration of contaminants with sub surface infiltration and shallow groundwater flow | Human Health | Low – Potential for migration is limited because of the impermeability of the ground |
| Contaminants within landfill | Migration of contaminants with sub surface infiltration and shallow groundwater flow | Controlled waters | Low – Landfill is recent and should have been engineered to control leachate. Ground is generally impermeable and will prevent flow and attenuate contamination. |
| Gas from landfill | Airborne | Human Health | Moderate – Significant gas will be produced. Soils are generally impermeable so risk will reduce with distance from landfill. |

7. Ground Investigations

Introduction

- 7.1 Capita Symonds previously carried out a desk study and ground investigation covering a larger part of the brickworks site in 2005 for Gazeley Limited. The results are contained in our report reference CS007890/CMD/05-1191/R dated August 2005, and the logs and results are included in Appendix C.
- 7.2 The locations of the holes are shown on the site plan in Appendix A.
- 7.3 The investigation comprised ten cable percussion boreholes, fourteen dynamic sample holes and forty-nine trial pits. Standpipes were installed in twenty of the holes to enable gas and groundwater monitoring, and for sampling the groundwater. The dynamic sample holes with installations were located around and adjacent to the tanks. Installations in the cable percussion boreholes provided general site coverage.
- 7.4 Sixty-six soil samples were tested for contamination, together with seven groundwater samples.
- 7.5 The exploratory hole logs, the laboratory test results and the gas and groundwater monitoring records are presented in Appendix C.
- 7.6 A further ground investigation was carried out in March 2010 to supplement the previous investigation. This comprised nineteen window sample holes, principally targeted at areas where contamination had been identified or was suspected and areas where additional coverage was needed. Additionally, samples were taken of the pond water and silt for contamination analysis. Standpipes were installed in three of the holes to supplement those that were able to be utilised from the previous investigation.
- 7.7 Laboratory testing was carried out on samples retrieved, comprising a general suite of potential contaminants together with PAH, hydrocarbons and asbestos testing. This included 16 soil samples, two silt samples and two water samples from the ponds. Monitoring of gas and groundwater level was carried out in the standpipes installed, plus any other installations from the previous investigation that were found to be serviceable.
- 7.8 Logs of the window sample holes, test results and monitoring records for the recent investigation are presented in Appendix D.

8. Ground Conditions

Introduction

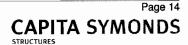
This section presents a summary of the ground conditions determined by both the previous ground investigation and the recent supplementary work.

Ground Conditions

- 8.2 The investigations confirmed the recorded geology, finding Weald Clay beneath the whole site. It was described as hard or brittle brown or grey clay, or very weak to weak mudstone, which was generally laminated and fractured. Clay near the surface tended to grade to mudstone.
- 8.3 Over most of the site the natural clay was found to be overlain by Made Ground around 0.3m to 1.5m thick, generally comprising concrete slab and sub-base construction over broken brick with gravel, ash and clay often in a sandy matrix. At the locations of old structures and flues the Made Ground was locally over 3.2m thick. Deeper areas of Made Ground were found in the eastern parts of the site.
- Just north of the site entrance from the south, Trial pit 21 and window sample hole 501 found 5.2m depth of Made Ground generally comprising clay with brick, ash, clinker, ceramics, glass and wood. This is thought to be the location of a ramp into the clay pit to the east that used to convey a tramway.
- 8.5 In the east of the site the ponds and silt lagoon are cut into the clay, and the higher ground is made up, the depth of Made Ground increasing northwards to over 5.4m. The Made Ground in this area was found to comprise generally firm to stiff, yellow brown to grey, gravelly clay with ash, brick and mudstone. The infill to the probable old silt lagoon was similar material. In places the natural clay underlying the Made Ground was soft to firm for up to about 1m depth beneath its surface.
- 8.6 In the area of the track entering the site from the east in the middle section of the site the surface of the natural clay falls away into the former clay pit, with Made Ground depths rising to up to 2.8m also comprising clay and brick but also with some wood and metal.
- 8.7 The raised bank along the eastern boundary in the northern section of the site was also found to be Made Ground up to 5.5m thick, comprising brick, ash and clinker fill over clay containing brick and gravel.
- The 2005 investigation found that the clay beneath the former brick kilns had been baked, becoming hard and brittle in a zone beneath and around the kilns.

Groundwater

8.9 Groundwater was found to enter several of the trial pits, but was thought to be perched water within the Made Ground.



8.10 The monitoring results showed groundwater between 1.05m and 5.94m depth. The reduced level was in the range 49.6mOD to 53.0mOD. Typically the reduced level was in the range 50.5mOD to 51.5mOD, and tended to fall slightly during the period of monitoring during the Spring months.

Gas

- 8.11 No methane was recorded in any of the installations with the exception of one reading of 0.1% in BH1.
- 8.12 Carbon dioxide was detected in nearly all of the monitoring installations, but was generally at a very low level with normal oxygen levels. Higher carbon dioxide levels were found in the eastern and northern parts of the site.
- 8.13 Carbon dioxide between 1.5% and 3.5% was found in the Made Ground in the area of the ponds, and in the borehole in the extreme south east of the site. DS13 in the west of the yard at the north of the site recorded up to 6.2%. The maximum readings were taken from BH10 in the Made Ground in the north east of the site where up to 16.5% was recorded.
- 8.14 Gas flow rates were low, the maximum recorded being 0.6l/hr.



9. Contamination Assessment

Introduction

- 9.1 In the 2005 investigation a total of sixty-six soil samples were analysed for a general suite of contaminants considered to be indicative of the state of the soil. The suite included total PAH and total TPH, but these were not speciated. A further sixteen soil samples were analysed during the 2010 investigation, and these included full speciation of both PAH and TPH.
- 9.2 Six soil samples were tested for PCB in 2005. Nine samples from the recent investigation were tested for the presence of asbestos.
- 9.3 Seven samples of groundwater were taken from the standpipe installations in 2005 and analysed for a suite of contaminants including speciated PAH and TPH by GC-FID. In the recent investigation water samples were tested from each of the ponds, plus a sample of silt from each pond.
- 9.4 In line with CLR11 (DEFRA & EA, 2004), a Generic Quantitative Risk Assessment (GQRA) has been undertaken to determine the significance of the measured concentrations of contaminants. The GQRA comprises the comparison of the measured concentrations with Generic Assessment Criteria (GACs).
- 9.5 The GACs used for the assessment of soil concentrations comprise Soil Guideline Values (SGVs) and values that have been derived using the CLEA model (version 1.04) adopting the appropriate assumptions and input parameters provided in the SR series of reports. In deriving the GACs for use on Brownfield sites we have assumed a soil with 1% Soil Organic Matter, consistent with measured values. The derived GACs are given in Appendix E.
- 9.6 The likely development on this site will be commercial or industrial in keeping with the surrounding land uses as landfill, brick manufacture and waste processing. The appropriate category with respect to GACs will be commercial/industrial, and this situation has been used in the assessment.

Soil

9.7 The test results for the general suite of contaminants are summarised in the table below. Where appropriate, the GAC has been included for simple comparison.

| | GAC | Results (mg/kg unless stated) | | | |
|-------------|---------------|-------------------------------|-----|---------|--|
| Determinant | (SGV in bold) | Min | Max | Average | |
| Arsenic | 640 | 2 | 132 | 28 | |
| Cadmium | 230 | <0.5 | 3.0 | 0.6 | |



| | GAC | Results (mg/kg unless stated | | |
|-------------------------------|----------------|------------------------------|------|---------|
| Determinant | (SGV in bold) | Min | Max | Average |
| Chromium | 30400 (LQM) | 6.5 | 395 | 47 |
| Lead | 4400 | 6 | 350 | 51 |
| Mercury | 3600 | <0.3 | 1.1 | 0.4 |
| Nickel | 1800 | 4.4 | 3554 | 99 |
| Copper | 39000 | 2 | 3600 | 107 |
| Zinc | 660000 | 21 | 1100 | 156 |
| Selenium | 130000 | <0.5 | 3.8 | 0.9 |
| Hexavalent Chromium | 330 | <0.2 | <0.2 | <0.2 |
| Water soluble Boron | 110000 | 0.8 | 3.7 | 2.0 |
| pH (unit) | | 6.2 | 10.3 | 7.7 |
| Water soluble sulphate (mg/l) | | 10 | 1800 | 537 |
| Total Cyanide | 16000 | <1.0 | 125 | 11 |
| Free Cyanide | | <1.0 | <1.0 | <1.0 |
| Sulphide | | 2 | 179 | 22 |
| Elemental Sulphur | | 10 | 680 | 98 |
| Phenols | 3200 | <1.0 | <1.0 | <1.0 |
| Soil Organic Matter (%) | | <0.1 | 6.8 | 1.5 |

- 9.8 There was only one exceedance of the GAC in all of the above results, this being the figure for nickel of 3554mg/kg. All other results for nickel were less than 85mg/kg which is well below the GAC.
- 9.9 By comparing the maximum figure in the table above with the GAC it is apparent that there are no contaminants of concern within this suite of testing other than nickel. Since in every case the maximum value is well below the GAC no statistical analysis is required for them. For nickel, statistical analysis using the procedure given in the Annex to CLR7 shows that



- the US_{95} value is 172mg/kg, and nickel is not generally of concern, but that the value of 3554mg/kg represents an outlier. The hotspot is located at WS509 at 3.5m depth. It is noted that the result at 0.50m depth in this hole was well within the GAC.
- 9.10 It is unlikely that the hotspot of nickel will be exposed by the works because of the depth at which it was found. Based on the source-pathway-receptor assessment, in this case no remediation will be necessary.
- 9.11 PCB levels were below detection limits in all the samples tested, and this potential contaminant is not of concern.
- 9.12 No asbestos was detected in any of the samples tested.
- 9.13 The 2005 investigation found petroleum hydrocarbons in several of the exploratory holes. Of 66 results, ten gave TPH measurements in excess of 1,000mg/kg. The maximum value was 24,000mg/kg, and the second highest was 8,400mg/kg. The 2010 investigation sampled and tested soil from similar locations to the higher results, principally to be able to speciate the hydrocarbon. Of the twenty samples tested, the highest three results were 996, 249 and 169mg/kg, with all other values being less than 30mg/kg. Speciation of these tests showed the hydrocarbon to be substantially in the range EC₁₆ to EC₃₅.
- 9.14 Although there can be statistical variation in the data, it is evident that there has been a substantial reduction in the levels of hydrocarbons in the ground since the 2005 investigation. This can occur through natural degradation of the hydrocarbon by microbial activity, the source of the contamination having been removed.
- 9.15 Examining the highest level of TPH recorded at 24,000mg/kg, this is probably within the EC₁₆ to EC₃₅ range based on the speciation results. The GAC for the aliphatic fraction in the EC₁₆ to EC₃₅ range is 120,000mg/kg, and for the aromatic fraction the GACs for the EC₁₆ to EC₂₁ and EC₂₁ to EC₃₅ ranges are 27,000 and 28,000mg/kg respectively. Hence, even without the apparent degradation of the hydrocarbon, the recorded levels will be within acceptable limits for commercial or industrial development, based on the CLEA assessment methodology. No remediation of petroleum hydrocarbons will be necessary at this site for commercial or industrial end use.
- 9.16 However, it is possible that other spillages may have occurred that have not been detected by the investigations, and vigilance will be necessary during construction.
- 9.17 Sixty-six results for PAH in the 2005 investigation found detectable amounts in only two locations, a total of 250mg/kg at TP20 beneath the factory slab in the western building, and 5.8mg/kg at TP48 in the Made Ground in the north east of the site. These were not speciated. It was not possible to resample the area beneath the slab because of a dangerous structure, but the 2010 investigation tested 16 other samples for PAH including the position of TP48. Only two samples returned measurable results, at 8.1mg/kg and 1.5mg/kg in WS509 and WS517. Speciation showed these to be principally benzo(b)fluoranthene and benzo(k)fluoranthene, for both of which the GAC is 140mg/kg. These are therefore not of concern, but it is not possible to discount the result at TP20, and this remains a hotspot that will require consideration in development or further investigation.



- 9.18 Because of the very low permeability of the clay strata beneath this site and the limited extent of the contamination, the incidence of PAH contamination is not considered to be significant with respect to controlled waters.
- 9.19 In summary, the soil can be regarded as uncontaminated for the purpose of commercial or industrial development with the exception of an area of possible polyaromatic hydrocarbon (PAH) contamination beneath the factory slab in the area of TP20.
- 9.20 Testing was carried out on two samples of silt from the base of the ponds. All the results for the general suite of testing were well below the GACs, and the PAH was below detection limits. Levels of petroleum hydrocarbons were well below GAC values with TPH results of 58.7mg/kg and 83.6mg/kg. Speciation showed that around 70% of the hydrocarbon was in the EC₁₆ to EC₃₅ range.

Groundwater

- 9.21 Seven samples of groundwater were tested in the 2005 investigation. Results for dissolved cadmium, chromium, lead, mercury, selenium, copper and for PAH were below the detection limit or very close to it. The sample from BH4 was also tested for PCB, which was not detected. Measured quantities of dissolved arsenic, zinc and nickel were all below Environmental Quality Standard limits (EQS), and only Arsenic marginally exceeded the UK Drinking Water Standard (DWS). Petroleum hydrocarbons were below detectable limits for five of the seven samples tested, and the other two gave TPH results of 0.08 and 0.16mg/l, with peaks in the C₁₀ to C₄₀ range. There is no EQS for hydrocarbons, but the UK DWS limit is 0.01mg/l. The measured values are considered to be insignificant.
- 9.22 Based on the testing carried out, the groundwater can be regarded as uncontaminated.

Pond Water

9.23 Samples of water were tested from each pond. Results for arsenic, cadmium, chromium, lead, copper, mercury, and selenium were below the detection limit. Results for nickel, zinc and boron were all below Environmental Quality Standard limits (EQS) and the UK Drinking Water Standard (DWS). Very small amounts of PAH were measured, all well below any relevant EQS or DWS limits. The pond water can be regarded as uncontaminated.

Gas

- 9.24 The gas monitoring results have been assessed using the methodology described in CIRIA Report C665, "Assessing risks posed by hazardous ground gases to buildings". Qualitatively the risk depends on the type of development, but for most industrial uses it is likely to be 'very low'.
- 9.25 Quantitatively, the Gas Screening Value is assessed to be 0.102l/hr at BH10 in the Made Ground in the north east of the site, and up to 0.037l/hr elsewhere. This places the site in Characteristic Situation 1 except for the area of Made Ground in the north east which is gas Characteristic Situation 2. No special measures are needed with respect to ground gas for development of the majority of the site, but gas should be considered for any development in the north east area. Unless the Made Ground is substantially removed and the gas situation verified it will be necessary to adopt Characteristic Situation 2 for this area.



9.26 No radon protection measures are required in this area.

Discussion and Recommendations

Introduction

- 10.1 It is assumed that the development of the site will be for commercial or industrial use consistent with the surrounding land use.
- The ground investigations confirmed the recorded geology, with Weald Clay being present across the site. It was described as hard or brittle brown or grey clay, or very weak to weak mudstone, which was generally laminated and fractured.
- 10.3 Over most of the site the natural clay was found to be overlain by Made Ground around 0.3m to 1.5m thick, generally comprising concrete slab and sub-base construction over broken brick with gravel, ash and clay often in a sandy matrix. At the locations of old structures and flues the Made Ground was locally over 3.2m thick. Deeper areas of Made Ground were found in the eastern parts of the site.
- 10.4 In the east of the site the ponds and silt lagoon are cut into the clay, and the higher ground is made up, the depth of Made Ground increasing northwards to over 5.4m. The Made Ground in this area was found to comprise generally firm to stiff, yellow brown to grey, gravelly clay with ash, brick and mudstone. The infill to the probable old silt lagoon was similar material.
- 10.5 The raised bank along the eastern boundary in the northern section of the site was also found to be Made Ground up to 5.5m thick, comprising brick, ash and clinker fill over clay containing brick and gravel.
- The monitoring results showed groundwater between 1.05m and 5.94m depth. The reduced level was in the range 49.6mOD to 53.0mOD.
- The site was previously used as a brickworks, with successive generations of development. This included several kilns, and areas of baked clay have been found in the vicinity of the kiln flues.

Contamination

- 10.8 A detailed contamination assessment was presented in Section 8 of this report. The site can generally be regarded as uncontaminated with respect to development for commercial or industrial use with the exception of hotspots of nickel and PAH.
- One hotspot of nickel contamination was found at 3.5m depth in WS509, which is in the area of Made Ground in the east of the site. It is noted that the result at 0.50m depth in this hole was well within the GAC. It is unlikely that the hotspot of nickel will be exposed by development works because of the depth at which it was found. Based on the source-pathway-receptor assessment, in this case no remediation will be necessary. This assessment will need to be reviewed if development proposals require excavation of the Made Ground, particularly with respect to construction workers, but in any case the building slab or hardstanding construction will provide sufficient protection to site users to mitigate the hazard of the contamination.

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CAPITA SYMONDS

- 10.10 An area of PAH contamination was identified beneath the slab of the factory building in the west of the site (TP20). Because of the remaining old building it was not possible to determine the extent of this, but it does not appear to extend outside the building area. Based on the source-pathway-receptor assessment, this contamination will not pose a significant risk if it is located beneath a building slab or road hardstanding. If this is the case for the development layout, then no remediation will be necessary. The Contractor should be made aware of the risk to construction workers.
- 10.11 If a slab, hardstanding or other suitable cover cannot be provided in the development layout then the PAH contamination should be treated or removed from site. It is recommended that further investigation is carried out after demolition or during construction to check the extent of this hotspot and to obtain speciated test results to enable an updated risk assessment to be undertaken. It is possible that this contamination may have diminished since the 2005 investigation, as was found with the hydrocarbon contamination. If it requires remediation, then bioremediation or removal may be considered.
- 10.12 The site has been in industrial use for very many years, and it is possible that areas of contamination may occur that have not been detected by the investigations. Any suspect areas discovered during the site development should be tested and assessed, and appropriate measures taken.

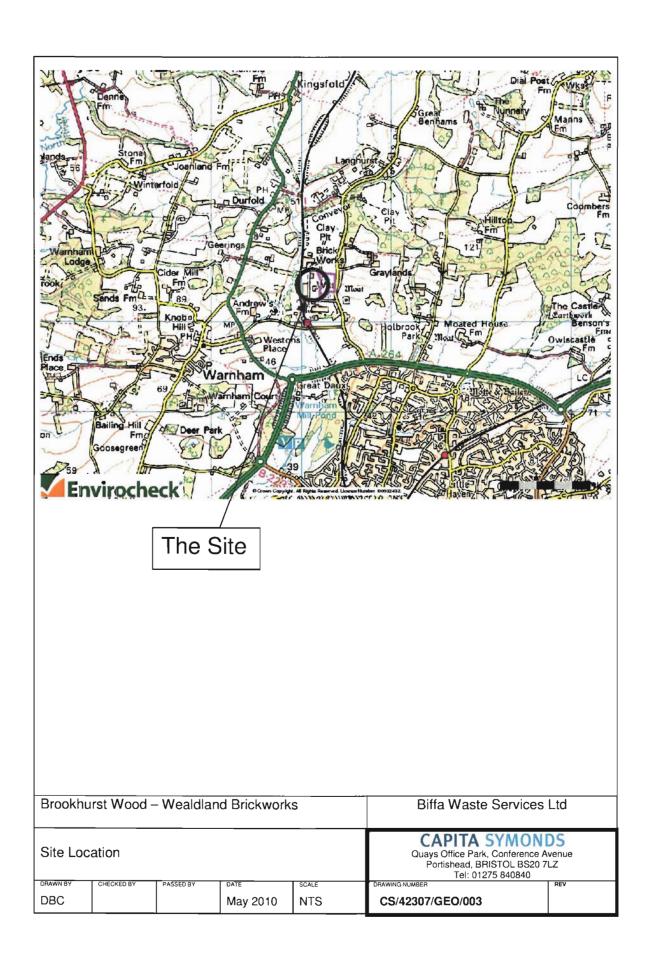
Gas

- 10.13 The site has been assessed to be very low risk with respect to ground gas for the likely form of development, and it is not in an area at risk from radon. No special measures are needed with respect to ground gas for the majority of the site. Any development on or near the Made Ground in the north east area of the site should accommodate the requirements of Gas Characteristic Situation 2.
- 10.14 Tables 2 and 3 of BS 8485 indicate that for an industrial development in the north east area sufficient protection is likely to be provided by a reinforced concrete slab with a taped and sealed gas-proof membrane. Commercial development may require additional precautions such as a ventilated sub-floor void or higher specification of membrane construction.

11. References

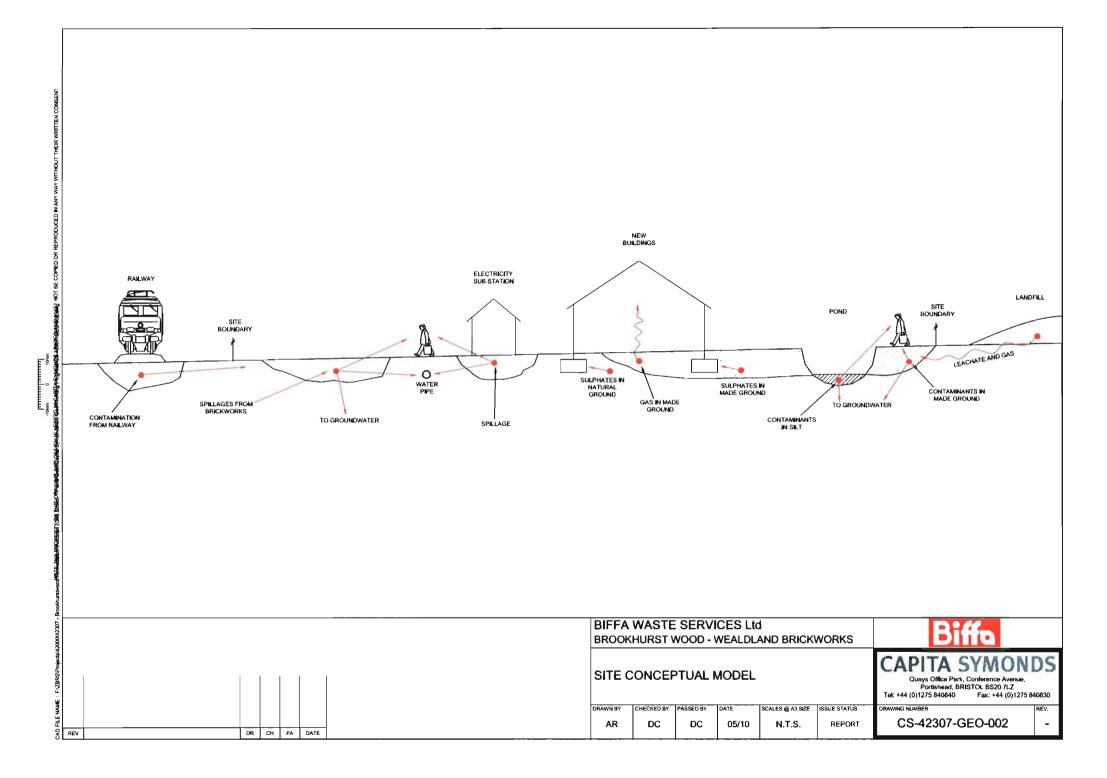
- 11.1 Geo-Environmental Investigation for land at The Brickworks, Langhurstwood Road, Warnham, West Sussex. Capita Symonds Ltd Report CS007890/CMD/05-1191/R, August 2005.
- 11.2 Geoenvironmental Report, West Sussex MRMC. Capita Symonds Ltd Report CS033750, August 2009.
- 11.3 BMR Green, JCH Miles, EJ Bradley and DM Rees, "The Radon Atlas of England and Wales", National Radiological Protection Board Report W26, August 2002.
- Wilson S, Oliver S, Mallett H, Hutchings H, Card G, "Assessing risks posed by hazardous ground gases to buildings", CIRIA Report C665, 2007.
- 11.5 NHBC Standards, Part 4 Foundations, 2008.
- 11.6 BRE Special Digest 1, "Concrete in aggressive ground", 2003.

Appendix A Site Location and Exploratory Hole Location Plans





Appendix B Conceptual Model



Appendix C 2005 Ground Investigation Results

CAPITA SYMONDS (Structures) Ltd

Radius House 51 Clarendon Road Watford

Tel: 01923 817537 Fax: 01923 228516 Project: The Brickworks, Horsham

Cable Percussion Rig

Job Number: CS007890A

Client: Gazeleys

Dates: 21/06/2005

N Coord:

G.L. (mLD)

Sheet 1 of 3 E Coord: -

BH₁

Driller: JDL

Exploratory Hole No.

Herts WD17 1HU SAMPLING DATA

GROUND STRATA

Method:

| SAMPLING DATA | | | GROUND STRATA | | | | | |
|---------------|---------|---------------|----------------|---------------------------------|--|---------------|-----------|--|
| Depth (m) | Туре | Test Result | Level (mLD) | end Depth (m) | Description | Water | Standpip | |
| 0.50 | D | | | 0.20 | CONCRETE MADE GROUND. Non cohesive aggregate of crush red bricks, Ash and Clay, dry and coarse. CLAY. Stiff to Very Stiff, weathered brown clay. | | | |
| 1.00 | D | | | | Brown day. | | | |
| 1.50 | D | N = 46 | | 1.50 | Stiff to V. Stiff CLAY, weathered brown clay with grey / blue un-weathered patches. | | | |
| 2.00 | D | N = 44 | | -7; -7; -3; -1; -1; | Clay becoming harder and more brittle with depth | | | |
| 2.50 | D | | | | | | | |
| 3.00 | D | N = 50 | 1 | | | | | |
| 3.50 | D | | | | | | | |
| 4.00 | D | N = 53 | | 4.00 | Blue / Grey, hard and brittle laminated CLAY. Generally becoming harder and more brittle with depth, fractured throughout, friable particularly where weathered | | | |
| 4.50 | D | | 1 | - <u>-</u> | along laminae. Texture varies from waxy to cementious, some moisture present commonly along fracture planes. | | | |
| 5.00 | D | N = 50 | 1 | | Continued next sheet | | | |
| SAMPLE/T | EST KEY | | REMARKS | | Boring Progress & Water | Observation [| Depths (m | |

- SAMPLE/TEST KEY
 D Small Disturbed Sample
 B Bulk Sample
 U Undisturbed Sample (& Blows)
 W Water Sample

- W Water Sample
 S Standard Penetration Test
 C Cone Penetration Test
 N Penetration Test 'N' Value
 * Partial Seating Penetration
 Cu Undrained Shear Strength kPa

Water Level

B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

REMARKS

Hole installed with 50mm HDPE liner, backfilled with pea gravel, sealed with bentonite and completed with lockable metal cover.

| cal | le | =1 | :32 | |
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Date Strike Level Minutes Casing Sealed

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| From | То | Hours | From | То | Ву |
| | | | | | IDI |

Exploratory Hole No. Project: The Brickworks, Horsham CAPITA BH₁ Job Number: CS007890A **SYMONDS** Client: Sheet 2 of 3 (Structures) Ltd Gazeleys N Coord: E Coord: -Dates: 21/06/2005 Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Cable Percussion Rig G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Test Result Water Depth (m) Standpipe Type (mLD) Legend Depth (m) Description Blue / Grey, hard and brittle laminated CLAY. Generally becoming harder and more brittle with depth, fractured throughout, friable particularly where weathered 5.50 D along laminae. Texture varies from waxy to cementious, some moisture present commonly along fracture planes. 6.00 D N = 256.50 D 7.00 D N = 287.50 D 8.00 D N = 278.50 D 9.00 Ð N = 529.50 D 10.00 D N = 55Continued next sheet Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY **REMARKS** D - Small Disturbed Sample Level Minutes Casing Sealed Date Strike Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed with bentonite and completed with U - Undisturbed Sample (& Blows) W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Logged Chiselling Water Added From То Hours From By $extstyle oxedsymbol{oxed}$ Water Strike Water Level Scale =1:32 JDL

IB 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: The Brickworks, Horsham Exploratory Hole No. CAPITA BH₁ **SYMONDS** Job Number: CS007890A Client: Sheet 3 of 3 Gazeleys (Structures) Ltd Dates: 21/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Cable Percussion Rig G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Water Type Legend Depth (m) Description Standpipe (mLD) Blue / Grey, hard and brittle laminated CLAY. Generally becoming harder and more brittle with depth, fractured throughout, 10.50 D friable particularly where weathered along laminae. Texture varies from waxy to cementious, some moisture present commonly along fracture planes. 11.00 D N = 3011.50 D 12.00 D N = 2612.00 End of Exploratory Hole at 12.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS Minutes Casing Sealed D - Small Disturbed Sample Strike Hole installed with 50mm HDPE liner, B - Bulk Sample U - Undisturbed Sample (& Blows) backfilled with pea gravel, sealed with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From Hours From Ву Water Strike Water Level Scale =1:32 JDL 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: The Brickworks, Horsham **CAPITA** BH₂ Job Number : CS007890A **SYMONDS** Sheet 1 of 2 Client: (Structures) Ltd Gazeleys N Coord: E Coord: -Dates: 21/06/2005 Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Test Result Water Standpipe Depth (m) Depth (m) Description Type Legend (mLD) CONCRETE 0.20 MADE GROUND. non cohesive aggregate of 0.30 crushed brick, dry clay and ash. Coarse granular, poorly sorted fill. Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 1.50-1.95 D N = 262.00-2.45 D N = 533.00-3.45 D N = 604.00-4.45 N = 315.00-5.45 D N = 42Continued next sheet Boring Progress & Water Observation Depths (m) REMARKS SAMPLE/TEST KEY D - Small Disturbed Sample Minutes Casing Sealed Date Strike Level Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test N - Penetration Test N - Penetration Test N - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged То From From Hours By V Water Strike ▼ Water Level Scale =1:32 JDL B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: The Brickworks, Horsham CAPITA BH₂ Job Number: CS007890A **SYMONDS** Client: Sheet 2 of 2 Gazeleys (Structures) Ltd Dates: 21/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Driller: G.L. (mLD) JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Type Test Result Legend Depth (m) Water Standpipe Description (mLD) Brown weathered CLAY, hard to brittle, laminated and fractured throughout. 5.30 Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches Blue / grey unweathered CLAY. Hard to brittle, laminated and fractured throughout. Friable along laminae and 6.00-6.45 D N = 27fractures, waxy texture. 7.00-7.45 D N = 508.00 End of Exploratory Hole at 8.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample B - Bulk Sample Date Strike Level Minutes Casing Sealed Hole installed with 50mm HDPE liner, backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged То To From Ву From Hours Water Strike Water Level Scale =1:32 JDL 3 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Exploratory Hole No. The Brickworks, Horsham **CAPITA BH3** Job Number: CS007890A **SYMONDS** Client: Gazeleys Sheet 1 of 2 (Structures) Ltd Dates: 22/06/2005 N Coord: E Coord: -51 Clarendon Road Tel: 01923 817537 Watford Method: G.L. (mLD) Driller: **JDL** Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Type Depth (m) Water Standpipe Legend Description (mLD) CONCRETE. reinforced 0.20 MADE GROUND. non cohesive aggregate of crushed brick, ash and dry clay. Coarse granular material, poorly sorted. 1.40 Brown weathered CLAY, hard to brittle 1.50-1.95 D N=47 laminated and fractured throughout. Friable along the laminae and fractures. Some unweathered grey patches present, and small amount of rootlet material near top of layer. 2.00-2.45 D N=28 3.00-3.45 D N = 333.30 Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less friable along laminae with some moisture and weathering in fracture planes. Waxy texture becoming harder with depth. 4.00-4.45 D N = 475.00-5.45 D N=51 Continued next sheet Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample B - Bulk Sample Level Minutes Casing Sealed Date Strike Hole installed with 50mm HDPE liner, U - Undisturbed Sample (& Blows) W - Water Sample backfilled with pea gravel, sealed with bentonite and completed with lockable metal cover. S - Standard Penetration Test - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From From Hours By Water Level Scale =1:32 JDL B 3 - RCE CP LOG - 1,0 - 11/2/2003 - MRW

Exploratory Hole No. Project: The Brickworks, Horsham CAPITA BH3 Job Number: CS007890A **SYMONDS** Client: Sheet 2 of 2 Gazeleys (Structures) Ltd Dates: 22/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Driller: G.L. (mLD) JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Type Test Result Depth (m) Description Standpipe Leaend (mLD) Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less friable along laminae with some moisture and weathering in fracture planes. Waxy texture becoming harder with depth. 6.00-6.45 D N=28 7.00-7.45 D N=53 8.00-8.45 D N=46 8.00 End of Exploratory Hole at 8.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS Minutes Casing Sealed Date Strike Level D - Small Disturbed Sample Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged То From Τo Ву From Hours 🟹 Water Strike Water Level Scale =1:32 JDL B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Exploratory Hole No. The Brickworks, Horsham CAPITA **BH4** Job Number: CS007890A **SYMONDS** (Structures) Ltd Client: Sheet 1 of 2 Gazeleys Dates: 23/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Type Legend Depth (m) Description Water Standpipe (mLD) CONCRETE, reinforced 0.30 MADE GROUND. non cohesive aggregate of crushed brick , ash and dry clay. Coarse granular, poorly sorted material. 1.50-1.95 D N=17 1.50 Brown weathered CLAY, hard to brittle laminated and fractured throughout. Friable along the laminae and fractures. Some unweathered grey patches present, and small amount of rootlet material near 2.00-2.45 D N=31 top of layer. 3.00-3.45 D N=36 4.00-4.45 N=51 5.00-5.45 D N=29 Continued next sheet Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Minutes Casing Sealed Date Strike Level Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed with bentonite and completed with U - Undisturbed Sample (& Blows) W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged То From From Hours Τo Ву Water Strike Water Level Scale =1:32 JDŁ 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: The Brickworks, Horsham CAPITA BH4 Job Number: CS007890A **SYMONDS** Client: Sheet 2 of 2 Gazeleys (Structures) Ltd Dates: 23/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Type Test Result Depth (m) Water Legend Description Standpipe (mLD) Brown weathered CLAY, hard to brittle laminated and fractured throughout. Friable along the laminae and fractures. Some unweathered grey patches present, and small amount of rootlet material near top of layer. 6.00-6.45 D N = 376.00 Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less friable along laminae with some moisture and weathering in fracture planes. Waxy texture becoming harder with depth. 7.00-7.45 D N = 447.00 End of Exploratory Hole at 7.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample B - Bulk Sample Strike Minutes Casing Sealed Level Date Hole installed with 50mm HDPE liner, backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged Ву From Τо Hours From Τо Water Strike Water Level Scale =1:32 JDL IB 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: The Brickworks, Horsham CAPITA BH₅ Job Number: CS007890A **SYMONDS** Client: Sheet 1 of 2 (Structures) Ltd Gazeleys Dates: N Coord: E Coord: -24/06/2005 Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Driller: G.L. (mLD) JDL Herts WD17 1HU Fax: 01923 228516 **GROUND STRATA** SAMPLING DATA Level Depth (m) Type Test Result Depth (m) Description Water Standpipe Legend (mLD) CONCRETE 0.30 MADE GROUND. non cohesive aggregate of crushed brick, ash and dry clay. Coarse granular material, poorly sorted. 1.00 Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 1.50-1.95 D N=36 1.50 Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less 2.00-2.45 D N=50 friable along laminae with some moisture and weathering in fracture planes. Waxy texture becoming harder with depth. 3.00-3.45 D N=28 3.30 Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 4.00-4.45 D N=28 5.00-5.45 D N=25 Continued next sheet Boring Progress & Water Observation Depths (m) REMARKS SAMPLE/TEST KEY D - Small Disturbed Sample Strike Level Minutes Casing Sealed Date Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Logged Chiselling From To Hours From To Ву Water Strike Water Level Scale =1:32 JDL IB 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: The Brickworks, Horsham CAPITA BH₅ Job Number: CS007890A **SYMONDS** Sheet 2 of 2 Client: Gazeleys (Structures) Ltd Dates: 24/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Tel: 01923 817537 Watford Method: G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Water Depth (m) Туре Test Result Legend Depth (m) Description Standpipe (mLD) Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 6.00-6.45 D N=48 6.00 Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less friable along laminae with some moisture and weathering in fracture planes. Waxy texture becoming harder with depth 7.00-7.45 D N=31 7.50 End of Exploratory Hole at 7.50 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS Minutes Casing Sealed D - Small Disturbed Sample Date Strike Level Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged From To Hours From By Swater Strike ■ Water Level Scale =1:32 JDL HB 3 - RCE CP LQG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: The Brickworks, Horsham CAPITA **BH6** Job Number: CS007890A **SYMONDS** Sheet 1 of 1 Client: (Structures) Ltd Gazeleys N Coord: E Coord: -Dates: 25/06/2005 Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: JDL Fax: 01923 228516 Herts WD17 1HU SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Water Type Depth (m) Standpipe Legend Description (mLD) CONCRETE 0.30 MADE GROUND. non cohesive aggregate of crushed brick, ash and dry clay. Coarse granular material, poorly sorted. 1.50-1.95 D N=5 2.00-2.45 D N=9 2.50 Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 3.00-3.45 D N=44 4.00-4.45 N = 434.00 Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less friable along laminae with some moisture and weathering in fracture planes. Waxy texture becoming harder with depth. 5.00-5.45 D N=48 5.00 End of Exploratory Hole at 5.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Minutes Casing Sealed Strike Level Date Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Logged Chiselling Water Added From To Hours From By Water Strike Water Level Scale =1:32 **JDL** 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Exploratory Hole No. The Brickworks, Horsham CAPITA BH7 Job Number: CS007890A **SYMONDS** Client: Sheet 1 of 2 Gazeleys (Structures) Ltd Dates: 23/06/2005 E Coord: -N Coord: Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Driller: G.L. (mLD) JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Water Depth (m) Type Test Result Legend Depth (m) Description Standpipe (mLD) MADE GROUND. TARMAC 0.30 MADE GROUND. non cohesive aggregate of crushed brick, ash and dry clay. Coarse granular material, poorly sorted. 1.00 Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 1.50-1.95 D N=19 2.00-2.45 D N=21 3.00-3.45 D N=49 4.00-4.45 D N=47 5.00-5.45 D N=28 5.00 Continued next sheet Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS Minutes Casing Sealed D - Small Disturbed Sample Date Strike Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test N - Penetration Test N - Penetration Test N - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From То Hours From Ву Water Strike ■ ▼ Water Level Scale =1:32 JDL B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Exploratory Hole No. The Brickworks, Horsham **CAPITA** BH7 Job Number: CS007890A **SYMONDS** Client: Sheet 2 of 2 (Structures) Ltd Gazeleys Dates: N Coord: 23/06/2005 E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Type Test Result Legend Depth (m) Water Standpipe (mLD) Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less friable along laminae with some moisture and weathering in fracture planes. Waxy texture becoming harder with depth. End of Exploratory Hole at 6.50 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Minutes Casing Sealed Date Strike Level Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed with bentonite and completed with U - Undisturbed Sample (& Blows) W - Water Sample lockable metal cover. Value S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged То From From Hours To Ву Water Strike Water Level Scale =1:32 JDL IB 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: The Brickworks, Horsham Exploratory Hole No. **CAPITA** BH8 Job Number: CS007890A **SYMONDS** Client: Sheet 1 of 2 (Structures) Ltd Gazeleys Dates: 28/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Type Test Result Depth (m) Water Standpipe Legend Description (mLD) MADE GROUND. non cohesive aggregate of crushed brick, ash and dry clay. Coarse granular material, poorly sorted. 1.20 Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. 1.50-1.95 D N=20 More weathered near top of unit, with some grey unweathered patches. 2.00-2.45 D N=18 3.00-3.45 D N=52 4.00-4.45 D N = 365.00-5.45 D N=31 Continued next sheet Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY **REMARKS** D - Small Disturbed Sample B - Bulk Sample Minutes Casing Sealed Level Hole installed with 50mm HDPE liner, backfilled with pea gravel, sealed U - Undisturbed Sample (& Blows) with bentonite and completed with W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From Hours From Ву Water Strike Water Level Scale =1:32 JDL B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

| CAPITA SYMONDS (Structures) Ltd Ratius House 91 Clierotrian Road Fact 1912-28 7537 | ~ | A DI | ΤΛ | Project : The Brickworks, Horsham | | | | | | | | | Exploratory Hole No. | | | | |
|--|---|-----------------------|--|-----------------------------------|-------------------------|------------|-----------|------------------------------------|--|--|-------------|----------------------|----------------------|----------|-----------|--|--|
| Cilent : Gazaleys Sheet 2 of 2 | | | | Job Nur | mber : | CS007890A | | | | | | | ВН | 3 | | | |
| Date 1.00 Tel 1.01923 B17537 Tel | | | | Client : | | Gazeleys | | | | | | | | | | | |
| Welford : GL (mLD) - Driller : JOL SAMPLING DATA Depth (m) Type Test Result Te | Radius House | e | , | Dates : | | 28/06/2005 | | | N C | oord : | - | | E Coord | : - | | | |
| SAMPLE/TEST KEY Degral Disturbed Sample Substituted Substituted Sample | Watford | | | Method | : | | | | G.L. | G.L. (mLD) - Driller : JDL | | | | | | | |
| SAMPLETEST KEY D - Small Disturbed Sample (& Blows) V - Water Strike U - Partial Scanging Penetration Cu - Undrained Shear Strength RPa Ci Water Strike W - Water Strike W - Water Strike Cu - Christelling Penetration Cu - Undrained Shear Strength RPa Ci Water Strike Scale =1:32 Brown weathered CLAY, hard to brittle, laminated and finetured throughout. Finable along luminea and facture throughout. Finable along luminea and facture planes, More weathered rear too of unit, with some growine planes, more weathered rear too of unit, with some growine planes, more planes, mo | SAMPLING | 3 DAT | `A | GROL | JND S | TRATA | | | | | | ' | | | | | |
| SAMPLE/TEST KEY D - Small Diskurded Sample U - Unriskurbed Sample Sample (8 Blows) W - Water Sarrige N - Partial Searning Penetration Cu - Undrained Shear Strength IkPa Water Strike Scale = 1:32 Boring Progress & Water Observation Depths (m) Date Strike Level Minutes Casing Sealed Level Minutes Casing Sealed Chiselling Water Added Logged From To Hours From To By Job. Job. Water Strike Scale = 1:32 | Depth (m) | Туре | Test Result | | Legend | | Descrip | tion | | | | | | Water | Standpipe | | |
| W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Strike Water Strike Scale =1:32 | D - Smail Di | sturbed | Sample | Hole ins | talled wit d with pe | h 50mm HD | PE liner, | inate able a re we ne gre | ed and a along la eathere rey unw | fractured iminae an id near top do near top reathered xploratory | Progres | t. olanes. iith 17 m | | | | | |
| * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From To Hours From To By Water Level Scale =1:32 | W - Water Sample S - Standard Penetration Test | | with ben | itonite an | d completed | with | | | | | | | | | | | |
| Water Strike ▼ Water Level From To Hours From To By JDL | N - Penetrat * - Partial Se | tion Test eating F | st 'N' Value Penetration Par Strength Pe | | | | | | | | hisallina | | Water | Added | Logged | | |
| ▼ Water Level Scale =1:32 JDL | | | sai Sueligui Kra | | | | | | | | _ | | | | | | |
| 19.9 - TWE OF LOG - 1.0 - 1.1/2/2003 - WITW | Water L | .evel | 1/2002 NEWA | | Sca | le =1:32 | | | | | | | | | | | |
| | IDB 3 - RCE CP LOG | - 1.0 - 11/2 | 72003 - MRW | | | | | | | · · · · · · · · · · · · · · · · · · · | Literature. | L | | <u> </u> | | | |

Project: Exploratory Hole No. The Brickworks, Horsham **CAPITA** Job Number: CS007890A BH9 **SYMONDS** Sheet 1 of 2 Client: Gazeleys (Structures) Ltd Dates: 25/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Tel: 01923 817537 Watford Method: G.L. (mLD) Driller: JDL Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA GROUND STRATA Level Depth (m) Type Test Result Legend Depth (m) Description Water Standpipe (mLD) CONCRETE 0.30 MADE GROUND. non cohesive aggregate of crushed brick, ash and dry clay. Coarse granular material, poorly sorted. 1.40 Brown weathered CLAY, hard to brittle, 1.50-1.95 D N=3 laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 2.00-2.45 D N=12 3.00-3.45 D N=20 4.00-4.45 D N=54 5.00-5.45 D N=28 Continued next sheet Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Date Strike Level Minutes Casing Sealed Hole installed with 50mm HDPE liner, B - Bulk Sample backfilled with pea gravel, sealed with bentonite and completed with U - Undisturbed Sample (& Blows) W - Water Sample lockable metal cover. S - Standard Penetration Test N - Penetration Test N - Penetration Test N - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From To Hours From To Ву

Scale =1:32

JDL

Water Level

IB 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

CAPITA SYMONDS (Structures) Ltd

Radius House 51 Clarendon Road Watford Herts WD17 1HU

Tel: 01923 817537 Fax: 01923 228516

Job Number: CS007890A

Client: Gazeleys

Dates: 25/06/2005 N Coord:

G.L. (mLD)

Sheet 2 of 2 E Coord: -

BH9

Driller: JDL

Exploratory Hole No.

SAMPLING DATA

GROUND STRATA

Method:

| OAMI LIIV | O DAI | | GROUND STRATA | | | | | | | | | |
|-----------|-------|-------------|----------------|--------|-----------|---|---|------------|------------|--|--|--|
| Depth (m) | Туре | Test Result | Level (mLD) | Legend | Depth (m) | Description | | Water | Standpipe | | | |
| 6.00-6.45 | D | N=26 | | | 5.50 | laminated an Friable along More weathe some grey ur Blue / grey ur brittle lamina throughout. Ffractures. Un friable along and weatheri | ered CLAY, hard to brittle, d fractured throughout. laminae and facture planes. red near top of unit, with nweathered patches. nweathered CLAY, hard to ted and fractured Friable along laminae and weathered generally less laminae with some moisture ng in fracture planes. Waxy ning harder with depth. | | | | | |
| 7.00-7.45 | D | N=27 | | | | | | | | | | |
| 8.00-8.45 | D | N=32 | | | 8.15 | End of | Exploratory Hole at 8.15 m | | - | | | |
| | | | | | | | | | _ | | | |
| SAMPLE/T | ESTVE | | DEMAG | DK6 | | | Boring Progress & Water Obs | ervation [| Depths (m) | | | |

SAMPLE/TEST KEY

D - Small Disturbed Sample
B - Bulk Sample
U - Undisturbed Sample (& Blows)
W - Water Sample
S - Standard Penetration Test

N - Penetration Test
N - Penetration Test
N - Partial Seating Penetration
Cu - Undrained Shear Strength kPa

Water Strike

Water Level

B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

REMARKS

Hole installed with 50mm HDPE liner, backfilled with pea gravel, sealed with bentonite and completed with lockable metal cover.

Scale =1:32

Boring Progress & Water Observation Depths (m)

| | Date | Strike | Level | Minutes | Casing | Sealed |
|---|------|-----------|-------|---------|--------|--------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | С | hiselling | | Water A | dded | Logged |
| Π | From | То | Hours | From | То | Ву |

JDL

Project: Exploratory Hole No. The Brickworks, Horsham CAPITA **BH10** Job Number: CS007890A **SYMONDS** Sheet 1 of 2 Client: Gazeleys (Structures) Ltd Dates: N Coord: 27/06/2005 E Coord : -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Driller: JDL G.L. (mLD) Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Depth (m) Туре Test Result Legend Depth (m) Description Water Standpipe (mLD) MADE GROUND. non cohesive aggregate of crushed brick, ash and dry clay. Coarse granular material, poorly sorted. 1.50-1.95 D N=19 2.00-2.45 D N=6 3.00-3.45 D N=5 3.00 Soft blue / grey CLAY, flexible some brown weathered patches. 4.00-4.45 D N=46 4.00 Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. 5.00-5.45 D N=52 Continued next sheet Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Date Strike Level Minutes Casing Sealed Hole installed with 50mm HDPE liner. B - Bulk Sample backfilled with pea gravel, sealed with bentonite and completed with U - Undisturbed Sample (& Blows) W - Water Sample lockable metal cover. S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged Ву From From To Hours \sum Water Strike Water Level Scale =1:32 JDL IB 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

CAPITA SYMONDS (Structures) Ltd

Radius House 51 Clarendon Road Watford

Tel: 01923 817537 Fax: 01923 228516 Project: The Brickworks, Horsham

Job Number: CS007890A

Client: Gazeleys

Dates: 27/06/2005 N Coord:

G.L. (mLD)

Sheet 2 of 2

BH10

Exploratory Hole No.

E Coord: -

Driller: JDL

Herts WD17 1HU **SAMPLING DATA**

GROUND STRATA

Method:

| SAMPLING | 5 DA I | A | GROU | GROUND STRATA | | | | | | | | |
|-------------|--------|-------------|---------------------------------|---------------|-----------|--|-------------|------------|--|--|--|--|
| Depth (m) | Туре | Test Result | Level (mLD) | Legend | Depth (m) | Description | Water | Standpipe | | | | |
| 6.00-6.45 | D | N=35 | | | | Brown weathered CLAY, hard to brittle, laminated and fractured throughout. Friable along laminae and facture planes. More weathered near top of unit, with some grey unweathered patches. | | | | | | |
| 7.00-7.45 | D | N=40 | - - - - - | | # | | | | | | | |
| 8.00-8.45 | D | N=51 | - - - - - | | 8.00 | Blue / grey unweathered CLAY, hard to brittle laminated and fractured throughout. Friable along laminae and fractures. Unweathered generally less friable along laminae with some moisture and weathering in fracture planes. Waxy | | | | | | |
| 9.00-9.45 | D | N=27 | - - - - - - - | | | texture becoming harder with depth. | | | | | | |
| 10.00-10.45 | D | N=31 | - | | 10.00 | End of Exploratory Hole at 10.00 m | | | | | | |
| SAMDI E/TI | EST KE | | PEMAR | oke | | Boring Progress & Water Obs | servation (| Depths (m) | | | | |

SAMPLE/TEST KEY

- D Small Disturbed Sample
 B Bulk Sample
 U Undisturbed Sample (& Blows)
 W Water Sample
 S Standard Penetration Test

- C Cone Penetration Test
 N Penetration Test
 N Penetration Test 'N' Value
 * Partial Seating Penetration
 Cu Undrained Shear Strength kPa
- Water Strike
- Water Level
- HB 3 RCE CP LOG 1.0 11/2/2003 MRW

REMARKS

Hole installed with 50mm HDPE liner, backfilled with pea gravel, sealed with bentonite and completed with lockable metal cover.

| Scale | =1:32 |
|-------|-------|

Boring Progress & Water Observation Depths (m) Date Strike Level Minutes Casing Sealed

| Date | Strike | Level | Minutes | Casing | Sealed |
|------|-----------|-------|---------|--------|--------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| С | hiselling | | Water A | dded | Logged |

| С | hiselling | | Water A | dded | Logged |
|------|-----------|-------|---------|------|--------|
| From | То | Hours | From | To | Ву |
| | | | | | JDL |

Project: Exploratory Hole No. Wealden Brickworks, Horsham CAPITA **DS01** Job Number: CS007890 **SYMONDS** Client: Sheet 1 of 1 (Structures) Ltd Dates: 21/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Depth (m) Type Test Result Legend Depth (m) Description Water Standpipe (mLD) CONCRETE. 0.22 MADE GROUND: (loose) reddish brown locally grey variegated ashy brick SAND with some to much fine to medium gravel of brick coal coke clinker. Occasional brick cobbles. 2.30 MADE GROUND: firm grey / yellowish brown / brown variegated CLAY with much mudstone gravel. 2.85 Very stiff to hard (grades to mudstone) with poorly developed thin to thick laminae grey / yellow variegated CLAY. 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Date Strike Level Minutes Casing Sealed B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged To From Ву From Tο Hours Water Strike Water Level Scale =1:32 B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: Wealden Brickworks, Horsham **CAPITA DS02** Job Number: CS007890 **SYMONDS** Client: Sheet 1 of 1 (Structures) Ltd Dates: 21/06/2005 N Coord: E Coord: -51 Clarendon Road Tel: 01923 817537 Watford Method: Driller: G.L. (mLD) Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Type Depth (m) Water Standpipe Description (mLD) Legend CONCRETE. 0.19 MADE GROUND: brick COBBLES. 0.25 MADE GROUND: (loose) reddish brown locally grey variegated ashy brick SAND with some to much fine to medium gravel of brick coal coke clinker. Occasional brick cobbles. 1.70 MADE GROUND: firm to stiff yellowish brown CLAY with gravel of mudstone brick clinker coke. 2.55 MADE GROUND: (loose) reddish brown locally grey variegated ashy brick SAND with some to much fine to medium gravel of brick coal coke clinker. Occasional brick cobbles. 3.70 Firm rapidly becoming very stiff to hard (grades to mudstone) with poorly developed thin to thick laminae grey / 4.00 yellow variegated CLAY. End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Strike Level Minutes Casing Sealed Date B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From From By Hours ☑. Water Strike Water Level Scale =1:32 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

CAPITA SYMONDS (Structures) Ltd

Radius House 51 Clarendon Road Watford

| Project : | Wealden Brickworks | Horsham |
|-----------|--------------------|---------|
|-----------|--------------------|---------|

Job Number: CS007890

DS03

Sheet 1 of 1

Exploratory Hole No.

Client:

Dates:

21/06/2005

N Coord:

E Coord : -

| 51 Clarendon R Watford Herts WD17 1F | | Tel: 01923 817537 Fax: 01923 228516 | Method | ·: | | | G.L. (mLD) | - | | Driller : | | |
|---|------|--|-------------|--------|--|---|--|---|--------------|--------------|--------|----------|
| SAMPLING | DATA | | GRO | JND ST | TRATA | | | | | | | |
| Depth (m) | Type | Test Result | Level (mLD) | Legend | Depth (m) 0.22 0.30 3.30 4.00 | Firm ra (grade develop yellow CLAY. | GROUND: brick GROUND: (loose grey variegated a: me to much fine coal coke clinke | ery stiff to vith poorly minae gre ing light gr | hard by / | | Water | Standpip |
| SAMPLE/TEST KEY D - Small Disturbed Sample B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa | | REMAF | rks | | Boring Progress & Water Observa Date Strike Level Minutes | | | | | Casin | Sealed | |
| Water Str | rike | Guengui KPa | | Saal | A =1·22 | | From | Chiselling To | Hours | From | To | Logge |
| B3-RCE CP LOG - 1 | | 13 - MPW | | Scal | e =1:32 | | | + | - | | | - |

Exploratory Hole No. Project: Wealden Brickworks, Horsham CAPITA **DS04** Job Number: CS007890 **SYMONDS** Sheet 1 of 1 Client: (Structures) Ltd Dates: 21/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Water Standpipe Type Legend Depth (m) Description (mLD) CONCRETE. 0.10 MADE GROUND: brick COBBLES. 0.25 MADE GROUND: (loose) reddish brown locally grey variegated ashy brick SAND with some to much fine to medium gravel of brick coal coke clinker. Occasional brick cobbles. 1.45 MADE GROUND: soft to firm grey / yellowish brown / brown variegated CLAY with much mudstone gravel. 3.70 Very stiff to hard (grades to mudstone) with poorly developed thin to thick laminae grey / yellow variegated CLAY. 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS Minutes Casing Sealed D - Small Disturbed Sample Strike Level Date B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From Hours From Ву Water Strike Water Level Scale =1:32 B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

CAPITA **SYMONDS** (Structures) Ltd

Radius House 51 Clarendon Road Watford

Tel: 01923 817537 Fax: 01923 228516

| Project : | Wealden Brickworks | Horsham |
|-----------|--------------------|---------|
|-----------|--------------------|---------|

Job Number: CS007890

Client:

21/06/2005

DS05

Sheet 1 of 1

Exploratory Hole No.

Dates:

N Coord:

G.L. (mLD)

E Coord: -

Method:

Driller:

Herts WD17 1HU **SAMPLING DATA**

GROUND STRATA

| Depth (m) | Туре | Test Result | Level (mLD) | Legend | Depth (m) | Description | | | | | Water | Standpipe |
|-------------|-----------|-------------|----------------|--------|--|---|--|---------------------------|-------------------------|----------|------------|-----------|
| | | | 12 | XXXX | - - 0.18 | CONCRETE. | | ev / vellow | ish brown | | | |
| | | | | | - | / brown varies mudstone & d | gated CLAY | with much | 1 | | | |
| | | | | 0.75 | MADE GROU becoming rec variegated as fine to mediu clinker. Occa | ldish brown hy SAND w m gravel of | locally greath ith some to brick coal of | y much | | | | |
| | | | | | - 2.10 | MADE GROU brown variega gravel. | JND: firm ye ated CLAY v | ellowish bro with much | own / light mudstone | 1 | | |
| | | | | | - 3.10 | MADE GROU mudstone gra fragment. We | avel & occas | sional wood | l | | | |
| | | | 188 | | 3.80 - 4.00 | Firm with poo laminae grey End of | orly develope / yellow vari Exploratory | egated CL | AY. | | . <u>V</u> | |
| | | | | | - | | | | | | | _ |
| SAMPLE/T | EST VEV | | REMAR | /C | | | Boring | Progress | s & Wate | r Observ | ation E | Depths (m |
| D - Small D |)isturbed | Sample | I VEINIVILLE | | | | Date | Strike | Level | Minutes | Casir | o Seale |

- SAMPLE/TEST KEY
 D Small Disturbed Sample
 B Bulk Sample
 U Undisturbed Sample (& Blows)
 W Water Sample
 S Standard Penetration Test
 C Cone Penetration Test
 N Penetration Test 'N' Value
 * Partial Segting Penetration

- * Partial Seating Penetration
 Cu Undrained Shear Strength kPa

Water Strike

Water Level

B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Date Strike Level Minutes Casing Sealed

Chiselling Water Added Logged

Ву

From Hours From

Scale =1:32

CAPITA SYMONDS (Structures) Ltd Radius House 51 Clarendon Road Watford Herts WD17 1HU SAMPLING DATA Depth (m) Type Test Result Project: Wealden Brickworks, Horsham Exploratory Hole No. DS06 Client: Sheet 1 of 1 Exploratory Hole No. DS06 Sheet 1 of 1 E Coord: E Coord: G.L. (mLD) Driller: SAMPLING DATA Depth (m) Type Test Result Level (mLD) Legend Depth (m) Description Water MADE GROUND: stiff grey / yellowish brown AMDE GROUND: stiff grey / yellowish brown MADE GROUND: stiff grey / yellowish brown

| Radius House | | Dates : | | 21/06/2005 | | N Coord : | - | | E Coord | l:- | | |
|---|--|----------------|--------|------------|--------------------------------|---|--|------------------------|-----------|----------|---------------------------------------|--|
| 51 Clarendon Road Watford Herts WD17 1HU | Tel : 01923 817537 Fax : 01923 228516 | Method | 1: | | | G.L. (mLD) | _ | | Driller : | | | |
| SAMPLING DA | ATA | GROU | JND S | TRATA | | | | ' | | | | |
| Depth (m) Type | e Test Result | Level (mLD) | Legend | Depth (m) | Description | | | | | Water | Standpipe | |
| | | | | | / brown | GROUND: stiff gr variegated CLAY ne & occasional c | with much | h | 1 | | | |
| | | | | 0.45 | becomir variegat some to | GROUND: (loose ng reddish brown ed ashy locally cl much fine to me al coke clinker. C | locally gre ayey SANI dium grav | y D with el of | | | | |
| | | | | 2.00 | brown v | GROUND: firm ye ariegated CLAY v ional brick gravel | vith much | | | | | |
| | | | | 2.95 | | / brown mudstor | GROUND: firm gr variegated CLAY ne & occasional in weak hydrocarbon | with much onstone g | า | | | |
| | | | | 4.00 | E | nd of Exploratory | Hole at 4. | 00 m | | | · · · · · · · · · · · · · · · · · · · | |
| SAMPLE/TEST H | | REMAR | RKS | | | Boring | Progress | s & Wate | r Observ | ation De | epths (m) | |
| D - Small Disturb B - Bulk Sample | ed Sample Sample (& Blows) | | | | | Date | Strike | Level | Minutes | Casino | Sealed | |
| S - Standard Pen C - Cone Penetra N - Penetration T | etration Test ation Test est 'N' Value | | | | | | | | | | | |
| * - Partial Seating Cu - Undrained S | Penetration Shear Strength kPa | | | | | | hiselling | | Water | Added | Logged | |
| Water Strike | | | | | | From | To | Hours | From | То | By | |
| _ water Strike Water Level | | | 800 | le =1:22 | | | | | | | | |
| B 3 - RCE CP LOG - 1.0 - 1 | 11/2/2003 - MRW | Scale =1:32 | | | | | | | | | | |

Exploratory Hole No. Project: Wealden Brickworks, Horsham CAPITA **DS07** Job Number: CS007890 **SYMONDS** Client: Sheet 1 of 1 (Structures) Ltd Dates: E Coord: -22/06/2005 N Coord: Radius House 51 Clarendon Road Tel: 01923 817537 Watford Method: Driller: G.L. (mLD) Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Type Test Result Legend Depth (m) Description Water Standpipe (mLD) CONCRETE. 0.12 MADE GROUND: brick GRAVEL & COBBLES. 0.25 Stiff to very stiff with poorly developed thin to thick laminae yellowish brown with brown staining to bedding & fissure surfaces CLAY. Locally thin interbeds of mudstone & siltstone. 3.40 Very stiff to hard thinly laminated blue grey CLAY. ∇ 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample B - Bulk Sample Minutes Casing Sealed Date Strike Level U - Undisturbed Sample (& Blows) W - Water Sample Valer Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged То From To Ву From Hours Water Strike

Scale =1:32

Water Level

B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: Wealden Brickworks, Horsham CAPITA **DS08** Job Number: CS007890 **SYMONDS** (Structures) Ltd Client: Sheet 1 of 1 Dates : N Coord : E Coord : -22/06/2005

| 51 Clarendon Road Watford Herts WD17 1HU SAMPLING DATA Depth (m) Type | Tel: 01923 817537 Fax: 01923 228516 | Method GROU Level (mLD) | | TRATA Depth (m) | | G.L. (mLD) | - | | Driller : | | |
|--|--|----------------------------------|----------|------------------|---|--|--------------------------|-----------|--------------------|-------|----------|
| | | Level | | | Description | | | | | | |
| Depth (m) Type | Test Result | Level (mLD) | Legend | Depth (m) | Description | | | | | | |
| | | | | | Description | | | |], | Water | Standpip |
| | | | | _ | CONCRET | ΓE. | | | | | XXX |
| | | 1 | <u> </u> | 0.17 0.25 | MADE GR | OUND: brick G | RAVEL & | COBBLE | S. | | ₩ |
| | | | | | thin to thick with brown surfaces C | y stiff with poor k laminae yello staining to bed LAY. Locally th & siltstone. | wish brow Iding & fis | n sure | | | |
| | | | | 3.20 | grey CLAY | o hard thinly lar | | | | | |
| SAMPLE/TEST KEY D - Small Disturbed S B - Bulk Sample U - Undisturbed Sam W - Water Sample S - Standard Penetratior C - Cone Penetration Test * - Partial Seating Pe Cu - Undrained Shea | Sample apple (& Blows) ation Test Test 'N' Value | REMAR | RKS | | | Date | Progress Strike | & Water | Observa Minutes | Casin | |
| | a Juengui Kra | | | | | From | To | Hours | From | To | _ |
| Water Strike | | | | | | FIOIN | 10 | Hours | FIOIII | 10 | Ву |
| Water Level 3 - RCE CP LOG - 1.0 - 11/2/2 | | | Sca | le =1:32 | | | | | | | |

HB 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: Wealden Brickworks, Horsham **CAPITA DS09** Job Number: CS007890 **SYMONDS** Client: (Structures) Ltd Sheet 1 of 1 Dates: 22/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Leve Depth (m) Type Test Result Depth (m) Water Standpipe Legend Description (mLD) CONCRETE. 0.10 MADE GROUND: brick GRAVEL & COBBLES. 0.30 Stiff to very stiff with poorly developed thin to thick laminae yellowish brown with brown staining to bedding & fissure surfaces CLAY. Locally thin interbeds of mudstone & siltstone. 3.30 Very stiff to hard thinly laminated blue grey CLAY. 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample B - Bulk Sample U - Undisturbed Sample (& Blows) Strike Minutes Casing Sealed Date Level W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Water Added Chiselling Logged Ву From Τo Hours From Water Strike Water Level Scale =1:32 B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Exploratory Hole No. Wealden Brickworks, Horsham **CAPITA DS10** Job Number: CS007890 **SYMONDS** Client: Sheet 1 of 1 (Structures) Ltd Dates: 22/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Туре (mLD) Legend Depth (m) Description Water Standpipe BRICK PAVING 0.12 MADE GROUND: dark grey ashy SAND with 0.25 much gravel of clinker & brick Hard brick red thickly laminated CLAY (baked). 1.00 Very stiff locally hard (grades to mudstone) light brownish yellow / light brown variegated CLAY with poorly developed thin to thick laminae. 2.30 End of Exploratory Hole at 2.30 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Minutes Casing Sealed Strike Level Date B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample S - Standard Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged То From То From Ву Hours `∠´ Water Strike

Scale =1:32

Water Level

3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Wealden Brickworks, Horsham Exploratory Hole No. **CAPITA DS11 SYMONDS** Job Number: CS007890 Client: Sheet 1 of 1 (Structures) Ltd Dates: 22/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: G.L. (mLD) Driller: Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Water Type Legend Depth (m) Standpipe (mLD) Description **BRICK PAVING** 0.13 MADE GROUND: dark grey ashy SAND with 0.30 much gravel of clinker & brick. Hard brick red thickly laminated CLAY 0.90 Very stiff to hard (grades to mudstone) with poorly developed thin to thick laminae grey / yellow variegated stained brown on discontinuity surfaces CLAY. 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY **REMARKS** D - Small Disturbed Sample Minutes Casing Sealed Strike Level B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From Hours From Ву Water Strike

Scale =1:32

Water Level

3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Exploratory Hole No. Project: Wealden Brickworks, Horsham CAPITA **DS12** Job Number: CS007890 **SYMONDS** Client: Sheet 1 of 1 (Structures) Ltd Dates: 22/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Tel: 01923 817537 Watford Method: G.L. (mLD) Driller: Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Depth (m) Type Test Result Legend Depth (m) Description Water Standpipe (mLD) **BRICK PAVING** 0.12 MADE GROUND: dark grey ashy SAND with 0.25 much gravel of clinker & brick. 0.40 Hard brick red thickly laminated CLAY (baked). Very stiff to hard (grades to mudstone) with poorly developed thin to thick laminae grey / yellow variegated stained brown on discontinuity surfaces CLAY. 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY **REMARKS** D - Small Disturbed Sample B - Bulk Sample Minutes Casing Sealed Date Strike Level U - Undisturbed Sample (& Blows) W - Undisturbed Sample (& Blo W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged To Hours From To Ву From Water Strike Water Level Scale =1:32 B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Exploratory Hole No. Wealden Brickworks, Horsham CAPITA **DS13** Job Number: CS007890 **SYMONDS** Sheet 1 of 1 Client: (Structures) Ltd Dates: N Coord: E Coord: -22/06/2005 Radius House 51 Clarendon Road Tel: 01923 817537 Watford Method: G.L. (mLD) Driller: Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Water Standpipe Depth (m) Type Test Result Legend Depth (m) Description (mLD) CONCRETE. 0.14 MADE GROUND: stiff dark grey / dark brown variegated sandy CLAY with much gravel of 0.35 clinker brick glass. MADE GROUND: brown / dark brown variegated SAND & GRAVEL of ash rust iron 0.75 ceramic glass rubber. Soft to firm dark grey (organic) / light brown mottled CLAY. Organic odour. 1.20 Soft to firm light yellowish brown / light grey mottled CLAY with ordered lithorelics of mudstone. 2.10 Stiff to very stiff with poorly developed thin to thick laminae grey / yellow variegated stained brown on discontinuity surfaces CLAY. 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS Minutes Casing Sealed D - Small Disturbed Sample B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test N - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged From Hours From Ву Water Strike Water Level Scale =1:32

3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

Project: Wealden Brickworks, Horsham Exploratory Hole No. **CAPITA DS14** Job Number: CS007890 **SYMONDS** Client: Sheet 1 of 1 (Structures) Ltd Dates: 22/06/2005 N Coord: E Coord: -Radius House 51 Clarendon Road Watford Tel: 01923 817537 Method: Driller: G.L. (mLD) Herts WD17 1HU Fax: 01923 228516 SAMPLING DATA **GROUND STRATA** Level Depth (m) Test Result Type Legend Depth (m) Description Water Standpipe (mLD) MADE GROUND: brick GRAVEL & COBBLES. 0.45 MADE GROUND: brown / dark brown variegated SAND & GRAVEL of ash rust iron 0.65 ceramic glass rubber. Soft to firm becoming firm light yellowish brown / light grey mottled CLAY with ordered lithorelics of mudstone. 2.30 Stiff to very stiff with poorly developed thin to thick laminae yellowish brown with brown staining to bedding & fissure surfaces CLAY. 4.00 End of Exploratory Hole at 4.00 m Boring Progress & Water Observation Depths (m) SAMPLE/TEST KEY REMARKS D - Small Disturbed Sample Minutes Casing Sealed Date Strike Level B - Bulk Sample U - Undisturbed Sample (& Blows) W - Water Sample Valet Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value * - Partial Seating Penetration Cu - Undrained Shear Strength kPa Chiselling Water Added Logged To From Hours From To Ву Water Strike Water Level Scale =1:32 B 3 - RCE CP LOG - 1.0 - 11/2/2003 - MRW

| Site: | Wealden Brickworks | Client: | Gazeley |
|----------|--------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP1 |
| Level: | 52.15mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description | | | |
|--------|--|------|------------|--|--|--|--|
| | | 1 | 0 – 0.45 | MADE GROUND. Aggregate of crushed bricks and flints gravels, in a dry granular sandy matrix, unconsolidated. | | | |
| | | 2 | 0.45 – 3.7 | CLAY. Pale brown with some grey / blue patches, highly weathered clay, very firm to brittle laminated and interbedded with cemented horizons in places. Clay becoming harder and more brittle with depth highly fractured and friable particularly along laminae. Waxy texture with some moisture along fracture planes, some folded laminae visible | | | |
| Notes: | Slight trickle of ground water at 3.3 metres | | | | | | |

| Site: | Wealden Brickworks | Client: | Gazeley |
|----------|--------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP2 |
| Level: | 52.54mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description | | | | |
|--------|--|------|-----------|--|--|--|--|--|
| | | 1 | 0 – 2.1 | MADE GROUND. Unconsolidated aggregate of red bricks crushed bricks, concrete and sand. Some clay patches with plastics and metal rods included. Refusal at 2.1 metres. Eastern side of pit collapsed as a void space, red brick structure clearly visible. Old Kiln flue. | | | | |
| Notes: | Pit stopped at 2.1m due to obstructions. This obstruction later confirmed to be a Kiln Flue. | | | | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP3 |
| Level: | 52.90mOD | Date: | 20/6/2005 |



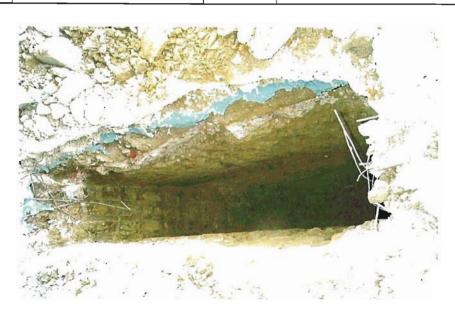
| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.3 | CONCRETE |
| | | 2 | 0.3 – 0.5 | MADE GROUND. Poorly sorted aggregate of clay and ash, with various pebbles and lumps of carbonaceous material. Some rootlets and a stale odour. |
| | | 3 | 0.9 – 3.3 | CLAY. Very firm brown weathered clay with sticky texture. Some grey patches, roots and black patches around roots. Becoming hard brittle and laminated around 2.2m blue / grey clay fractured and friable with some moisture in fractures and some weathering. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP4 |
| Level: | 53.03mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description | | |
|--------|------|------|-----------|--|--|--|
| | | 1 | 0 – 0.1 | CONCRETE | | |
| | | 2 | 0.1 – 0.3 | MADE GROUND. Sand and gravel | | |
| | | 3 | 0.3 – 1.0 | MADE GROUND. Aggregate of stiff clay and brick. Very heavily stained black with strong hydrocarbon smell, some wood and plastic. Concrete slab at base of made ground. | | |
| | | 4 | 1.0 – 3.4 | CLAY. Hard to brittle weathered brown clay, laminated and fractured throughout. Smell of hydrocarbon, old pipe in top of clay possibly old fuel line. | | |
| Notes: | | | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP5 |
| Level: | 52.91mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.6 | CONCRETE. Reinforced ring around kilns 200mm over 200mm gravel with 200mm slab below. |
| | | 2 | 0.6 – 2.3 | CLAY. Pale brown weathered clay hard and brittle, laminated and fractured throughout |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP6 |
| Level: | 52.91mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|---|------|-----------|--|
| | | 1 | 0 – 1.2 | MADE GROUND / CONCRETE. Reinforced ring around kilns 200mm over 200mm gravel with 200mm slab below. Further layer of sand and gravel with concrete slab at base |
| | | 2 | 1.2 – 3.4 | CLAY. Pale brown weathered clay hard and brittle, laminated and fractured throughout. Clay in close proximity to kilns very hard and baked due to heat from kilns. |
| Notes: | South side of pit red brick structure confirmed to be a section of an old Kiln flue, these are common around this area. | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP7 |
| Level: | 52.42mOD | Date: | 20/6/2005 |



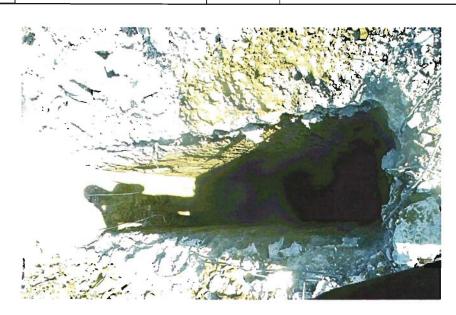
| Sample | Туре | Unit | Depth (m) | Description | |
|---------|---------------------------------------|------|-----------|---|--|
| | | 1 | 0 – 0.1 | CONCRETE | |
| | | 2 | 0.1 – 0.9 | MADE GROUND. Aggregate of crushed bricks, Sand and gravel | |
| | | 3 | 0.9 – 3.0 | CLAY. Very firm to hard brown weathered clay, with some grey un-weathered patches and cemented mudstone nodules. Clay becoming less weathered with depth but becoming hard and brittle, laminated and fractured, very friable along laminae some moisture in fractures. | |
| Notes: | Trickle of groundwater at 2.0 metres. | | | | |
| 140163. | THORIE OF GROUNDWALEF AL 2.0 MELIES. | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP8 |
| Level: | 52.57mOD | Date: | 20/6/2005 |



| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 0.2 | CONCRETE |
| | | 2 | 0.2 – 0.3 | MADE GROUND. Sand and gravel |
| | | 3 | 0.3 – 3.2 | CLAY. Very firm to hard brown weathered clay, with some grey un-weathered patches and cemented mudstone nodules. Clay becoming less weathered with depth but becoming hard and brittle, laminated and fractured, very friable along laminae some moisture in fractures |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP9 |
| Level: | 52.76mOD | Date: | 20/6/2005 |



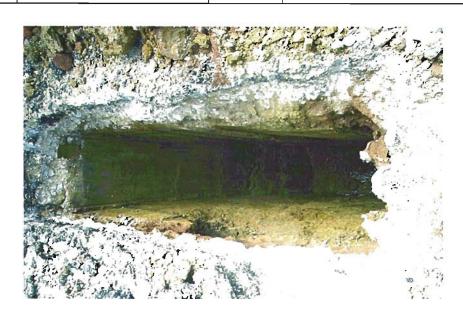
| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 2.5 | MADE GROUND. Unconsolidated ash and dry clay mix (300mm) over red brick structure, identified as kiln flue |
| | | 2 | 2.5 – 3.8 | CLAY. Hard cemented clay, laminated and fractured, clay adjacent to the old kiln flue was baked by heat into a red brick like material which is extremely hard. |
| Notes: | _ | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP10 |
| Level: | 53.18mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.2 | CONCRETE |
| | | 2 | 0.2 – 0.5 | MADE GROUND. Aggregate of crushed bricks and sandy ash like material with some gravel. |
| | | 3 | 0.5 – 2.7 | CLAY. Laminated brown weathered clay, fractured and brittle becoming less weathered with depth to a blue / grey laminated and fractured clay with waxy texture. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP11 |
| Level: | 53.26mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.2 | CONCRETE |
| | | 2 | 0.2 – 0.8 | MADE GROUND. Unconsolidated aggregate of crushed bricks, clay, ash. Drainage pipe struck at 0.7, no water. |
| | | 3 | 0.8 – 3.3 | CLAY. Pale brown weathered clay, fractured and laminated friable along joints. Becoming very hard and cemented with depth, fractured and brittle. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP12 |
| Level: | 53.27mOD | Date: | 20/6/2005 |



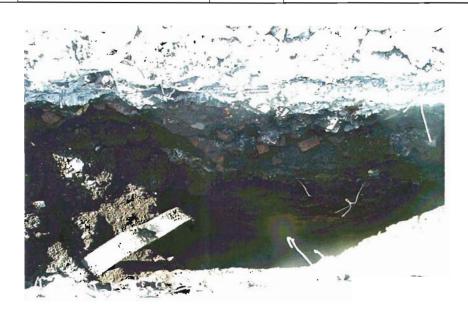
| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 0.2 | CONCRETE |
| | | 2 | 0.2 – 0.8 | MADE GROUND. Cohesive aggregate of crushed bricks, clay, ash. Sticky and firm texture |
| | | 3 | 0.8 – 3.7 | CLAY. Pale brown weathered clay, stiff flexible, Becoming very hard and cemented with depth, laminated, fractured and brittle, friable along laminae and cracks. |
| Notes: | | | | • |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP13 |
| Level: | mOD | Date: | 20/6/2005 |



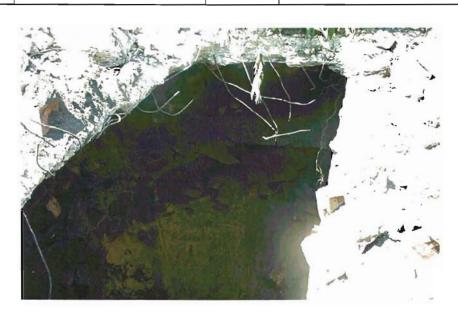
| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.2 | CONCRETE |
| | | 2 | 0.2 – 1.3 | MADE GROUND. Uncohesive aggregate of crushed bricks, clay, ash. Coarse and dry. |
| | | 3 | 1.3 – 3.9 | CLAY. Pale brown weathered clay, stiff flexible, with some un-weathered grey spots. Becoming very hard and cemented with depth, laminated, fractured and brittle, friable along laminae and cracks. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP14 |
| Level: | 58.77mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|---------------|--------|--------------|---|
| | | 1 | 0 - 0.2 | CONCRETE |
| | | 2 | 0.2 – 4.7 | MADE GROUND. Fairly cohesive aggregate of clay, crushed brick, with a lot of whole bricks, ash mixed throughout. Some patches of weald clay through, top metre mostly bricks. Becoming mostly stiff Weald clay, weathered pale brown with some grey / blue un-weathered patches. Roots present with black organic material around roots, some sandier weathered patches. Small brick inclusions proving made ground. |
| | | | | |
| Notes: | No natural gr | ound e | ncountered m | aximum depth achieved by excavator |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP15 |
| Level: | 58.64mOD | Date: | 20/6/2005 |



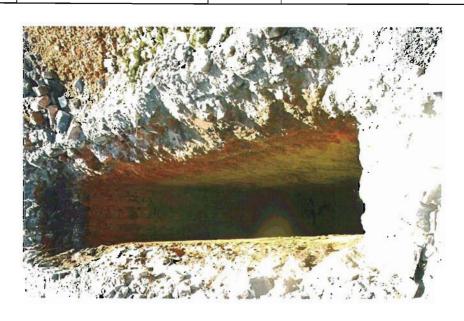
| Sample | Туре | Unit | Depth (m) | Description | | |
|--------|---|------|-----------|------------------------|--|--|
| | | 1 | 0 – 0.2 | CONCRETE | | |
| | | 2 | 0.2 – 3.3 | MADE GROUND. Kiln Flue | | |
| | | | | | | |
| Notes: | No natural ground encountered maximum depth achieved by excavator | | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP16 |
| Level: | 53.74mOD | Date: | 20/6/2005 |



| Sample | Type | Unit | Depth (m) | Description | |
|--------|--|------|-----------|--|--|
| | | | | | |
| | | 1 | 0 – 0.5 | MADE GROUND. Compacted clay and brick, top 0.2 very hard becoming less compacted near base. | |
| | | 2 | 0.5 – 2.1 | CLAY. Extremely hard red cemented clay with no structures. Close proximity to old kilns. Clay has clearly been baked into a hard red brick like material. | |
| | | 3 | 2.1 – 4.0 | CLAY. Brown weathered clay, laminated and fractured, becoming less weathered with depth to a grey / blue laminated and fractured clay, brittle and friable | |
| Notes: | Baked clay material common across site where clay is in close proximity to old kilns and flues, which have been in operation for over 100 years. Heat from these kilns etc. has baked the clay into a brick like material. | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP17 |
| Level: | 53.61mOD | Date: | 20/6/2005 |



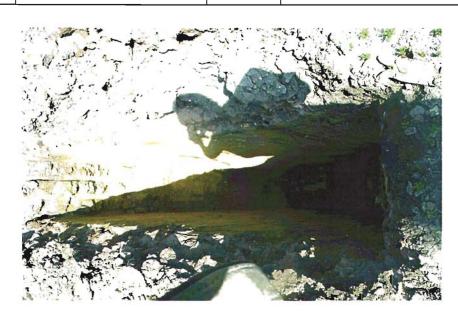
| Sample | Туре | Unit | Depth (m) | Description | |
|--------|--|------|------------|--|--|
| | | 1 | 0 – 0.6 | MADE GROUND. Compacted clay and brick, top 0.2 very hard becoming less compacted near base. Layer of laid paving bricks in situ at top. | |
| | | 2 | 0.6 – 1.2 | CLAY. Extremely hard red cemented clay with no structures. Close proximity to old kilns. Clay has clearly been baked into a hard red brick like material. | |
| | | 3 | 1.2 – 3.95 | CLAY. Brown weathered clay, laminated and fractured, becoming less weathered with depth to a grey / blue laminated and fractured clay, brittle and friable | |
| Notes: | Baked clay material common across site where clay is in close proximity to old kilns and flues, which have been in operation for over 100 years. Heat from these kilns etc. has baked the clay into a brick like material. | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP18 |
| Level: | 53.55mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 0.7 | MADE GROUND. Compacted at surface but becoming unconsolidated with depth. Aggregate of brick and ash, reddish brown in colour, dry with higher percentage of ash near base. |
| | | 2 | 0.7 – 3.7 | CLAY. Stiff grey clay with plastic texture with some brown weathered patches, roots present, with some sandier spots. Becoming hard brittle and fractured at 1.7 metres, into the typical laminated, friable clay. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP19 |
| Level: | 53.88mOD | Date: | 20/6/2005 |



| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 0.5 | MADE GROUND. Unconsolidated aggregate of bricks, ash, with glass, ceramics in a coarse granular matrix, with lumps of carbonaceous material. |
| | | 2 | 0.5 – 3.8 | CLAY. Stiff brown weathered clay, becoming hard, brittle and laminated with depth. Weathered along laminae and fracture planes, some moisture in cracks, waxy texture. Some folding of layers obvious. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP20 |
| Level: | 52.94mOD | Date: | 20/6/2005 |



| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 - 0.2 | CONCRETE |
| | | 2 | 0.2 1.9 | MADE GROUND. Clay and brick aggregate, cohesive and wet, with sand. South side of pit has red brick structure, just below the surface level, old kiln flue. Refusal at 1.9m unknown obstruction possibly base slab of flue. Made ground variable with wood, gravel, metal and plastic in, with hydrocarbon odour at base of pit. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP21 |
| Level: | 53.84mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|--------------|----------|--------------------|--|
| | | 1 | 0 – 3.8 | MADE GROUND. Top 0.6m unconsolidated aggregate of bricks and ash, very dry. Below this various layers of clay and crushed brick, with ash, ceramics, glass and wood. Generally cohesive, with a unidentified chemical odour. |
| | | | | |
| Notes: | Water is bas | e of hol | l e, unknown er | ntry point probably around 3.5 metres. |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP22 |
| Level: | 55.10mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.9 | MADE GROUND. Dry semi-cohesive aggregate of clay, brick with plastics, roots and some ash. Dry and desiccated at surface. |
| | | 2 | 0.9 – 3.0 | CLAY. Stiff grey clay with weathered brown patches throughout, with some root material. Becoming hard, brittle with depth. Laminated and fractured, friable along laminae, with weathering along fractures planes, some moisture. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP23 |
| Level: | 52.75mOD | Date: | 20/6/2005 |

| | NO PICTURE | |
|--|------------|--|
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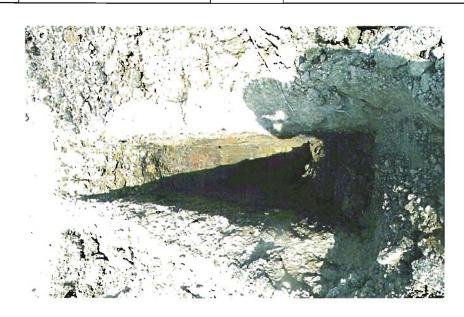
| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 - 0.3 | CONCRETE |
| | | 2 | 0.3 – 0.5 | MADE GROUND. Aggregate of brick and ash, dry and uncohesive. |
| | | 3 | 0.5 – 2.9 | CLAY. Stiff grey clay with weathered brown patches throughout, with some root material. Becoming hard, brittle with depth. Laminated and fractured, friable along laminae, with weathering along fractures planes, some moisture. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP24 |
| Level: | 53.01mOD | Date: | 20/6/2005 |

NO PICTURE

| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 1.3 | MADE GROUND. Uncohesive aggregate of clay bricks and ash, dry and crumbly. |
| | | 2 | 1.3 – 2.3 | CLAY. Stiff grey clay with weathered brown patches throughout, with some root material. Becoming hard, brittle with depth. Laminated and fractured, friable along laminae, with weathering along fracture planes, some moisture. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP25 |
| Level: | 54.97mOD | Date: | 20/6/2005 |



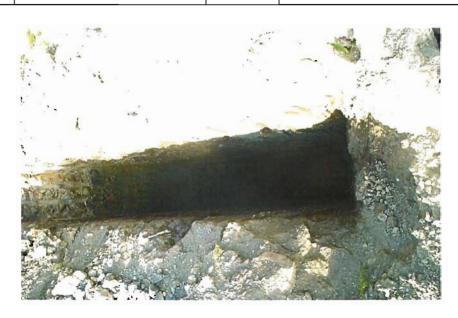
| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.9 | MADE GROUND. Building sand |
| | | 2 | 0.9 – 1.9 | MADE GROUND. Semi cohesive aggregate of clay ash and brick. Very high percentage of ash |
| | | 3 | 1.9 – 3.8 | CLAY. Blue / grey becoming brown and heavily weathered, hard brittle clay, fractured and laminated. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP26 |
| Level: | 55.60mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.3 | MADE GROUND. Uncohesive aggregate of clay bricks and ash, dry and crumbly. |
| | | 2 | 0.3 – 2.5 | CLAY. Pale brown weathered clay, stiff flexible, with some un-weathered grey spots. Becoming very hard and cemented with depth, laminated, fractured and brittle, friable along laminae and cracks. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP27 |
| Level: | 54.54mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 1.6 | MADE GROUND. Semi cohesive aggregate of clay bricks and ash. |
| | | 2 | 1.6 – 4.3 | CLAY. Blue / grey laminated and fractured clay. Hard and brittle friable along laminae and fracture planes, waxy texture with moisture and weathering in fracture planes. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP28 |
| Level: | 53.90mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 2.0 | MADE GROUND. Semi cohesive aggregate of clay bricks and ash. |
| | | 2 | 2.0 – 4.5 | CLAY. Blue / grey laminated and fractured clay. Hard and brittle friable along laminae and fracture planes, waxy texture with moisture and weathering in fracture planes. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP29 |
| Level: | 55.18mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 4.0 | MADE GROUND. Top 2 metres semi cohesive aggregate of clay brick and ash, wet texture flexible. Changing into primarily clay based aggregate, very stiff and cohesive with brick and ash, some roots and hydrocarbon odour. Water in the bottom of the pit most likely from adjacent lagoon or silt pond. Oily substance visible floating on top of water. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP30 |
| Level: | 50.97mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 2.8 | MADE GROUND. Semi cohesive aggregate of clay, brick with a lot of wood and some metal. Becoming less cohesive more granular and dryer with depth |
| | | 2 | 2.8 – 2.9 | CLAY. Very hard blue / grey clay, laminated, fractured and brittle along laminae and fractures planes, waxy texture, with some moisture and weathering in fractures. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP31 |
| Level: | 50.78mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 1.7 | MADE GROUND. Unconsolidated aggregate of bricks and gravels in a coarse granular matrix. |
| | | 2 | 1.7 – 3.2 | CLAY. Blue / grey, hard laminated clay, fractured and brittle, some moisture in fractures, and small trickle of water into base of pit. |
| Notes: | - | | | |
| | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP32 |
| Level: | 53.83mOD | Date: | 20/6/2005 |



| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.6 | MADE GROUND. Unconsolidated aggregate of bricks and gravels in a coarse granular matrix. |
| | | 2 | 0.6 – 3.2 | MADE GROUND. Kiln flue, possibly backfilled with brick, difficult to tell as it collapsed on itself |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP33 |
| Level: | 53.70mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 1.6 | MADE GROUND. Unconsolidated aggregate of bricks and gravels in a coarse granular matrix. Top corner of kiln flue encountered, visible as red brick structure. |
| | | 2 | 1.6 – 3.2 | CLAY. Brown weathered clay, hard and brittle, laminated throughout, fractured and friable along laminae and fracture planes |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP34 |
| Level: | 53.30mOD | Date: | 20/6/2005 |



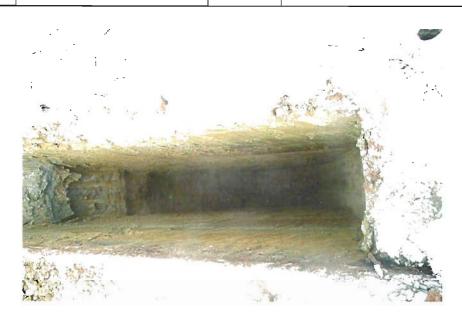
| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 0.9 | MADE GROUND. Unconsolidated aggregate of bricks and gravels in a coarse granular matrix, with a lot of ash at the base and a hydrocarbon odour. |
| | | 2 | 0.9 – 3.2 | CLAY. Brown weathered clay, hard and brittle, laminated throughout, fractured and friable along laminae and fracture planes |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-------------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP35 |
| Level: | 53.03mOD | Date: | 20/6/2005 |



| Sample | Type | Unit | Depth (m) | Description | |
|--------|---|------|-----------|--|--|
| | | 1 | 0 – 2.0 | MADE GROUND. Mostly whole bricks, bits of wall structures, plastics and metal rods. Concrete walls on either side of pit, part of a made structure, possibly old sand pit now backfilled. A lot of water in fill material and pit. | |
| | | | | | |
| Notes: | Pit terminated as not likely to encounter any natural surfaces. | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP36 |
| Level: | 53.17mOD | Date: | 20/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 0.3 | CONCRETE. |
| | | 2 | 0.3 – 4.3 | CLAY. Stiff flexible grey / blue clay, slightly weathered brown in parts, becoming hard brittle and laminated at 2.5 metres. Heavily weathered and fractured at depth, with waxy texture and some moisture in fractures. |
| | | | | |

Notes:

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP37 |
| Level: | 53.76mOD | Date: | 20/6/2005 |



| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 2.5 | MADE GROUND. Unconsolidated aggregate of bricks and gravels in a coarse granular matrix. Top of kiln flue encountered, visible as red brick structure on south side of pit, down to 2.5 m |
| | | 2 | 0.5 – 2.5 | CLAY. Very hard cemented red clay, baked by heat from flue, grading into hard weathered, laminated clay, fractured and brittle. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP38 |
| Level: | mOD | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 1.3 | CONCRETE 200mm, over MADE GROUND. Unconsolidated aggregate of crushed brick and gravel, in coarse granular sand and ash matrix., over CONCRETE 200mm, over MADE GROUND, ash and brick, over CONCRETE 200mm, over made ground. |
| | | 2 | 1.3 – 3.2 | CLAY. Brown weathered and fractured clay, laminated, hard and brittle. Waxy texture, friable along laminae, some moisture in fractures at depth. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP39 |
| Level: | | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 - 0.2 | CONCRETE |
| | | 2 | 0.2 – 0.5 | MADE GROUND. Crushed brick and ash aggregate with some gravel, coarse and granular. |
| | | 3 | 0.5 - 0.7 | CONCRETE |
| | | 4 | 0.7 – 1.2 | MADE GROUND. Aggregate of predominantly ash with crushed brick. |
| | | 5 | 1.2 – 2.6 | CLAY. Hard brown and weathered, laminated and fractured, becoming harder and more cemented with depth |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP40 |
| Level: | | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 0.2 | CONCRETE |
| | | 2 | 0.2 – 0.6 | MADE GROUND. Sand and gravel over unconsolidated aggregate of crushed brick and ash, some dry clay. |
| | | 3 | 0.6 - 3.5 | CLAY. Brown weathered, hard and brittle laminated clay weathered and fractured along laminae. Becoming very friable with depth, with some moisture in fracture planes. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP41 |
| Level: | | Date: | 27/6/2005 |

| NO PICTURE | |
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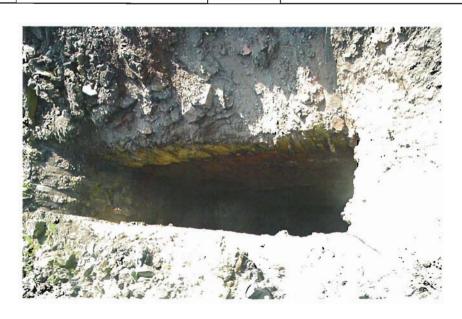
| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|------------|--|
| | | 1 | 0 – 0.15 | CONCRETE |
| | | 2 | 0.15 – 0.4 | MADE GROUND. Sand and gravel over unconsolidated aggregate of crushed brick and ash, some dry clay. |
| | | 3 | 0.4 – 3.5 | CLAY. Brown weathered, hard and brittle laminated clay weathered and fractured along laminae. Becoming less weathered with depth to a blue / grey clay with waxy texture and some moisture in fractures. |
| | | | | |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP42 |
| Level: | | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|----------------|--------|------------|---|
| | | 1 | 0 – 0.15 | CONCRETE |
| | | 2 | 0.15 – 1.8 | MADE GROUND. Large amount of whole red bricks to 1 metre, changing into laid red brick structure down to base, possibly old backfilled flue or brick clamp. |
| Notes: | Refusal at 1.8 | metres | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP43 |
| Level: | | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 4.2 | MADE GROUND. Top 0.4 metres dry unconsolidated clay and gravels, with brick and ash material. Changing into cohesive clay and brick mix with ash layers down to 4 .0 metres. Some domestic waste visible in fill including mixed ceramics, bottles, textiles, plastics. Possibly just touching natural clay at 4.0 metres, when a blue clay is encountered with some roots, only small amount retrievable from pit. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP44 |
| Level: | 53.40mOD | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description | | |
|--------|---------------|---|-------------|--|--|--|
| | | 1 | 0 – 0.25 | CONCRETE | | |
| | | 2 | 0.25 - 0.35 | MADE GROUND. Sand and Gravel | | |
| | | 3 | 0.35 – 1.4 | CLAY. Baked red clay, hard and cemented, like brick material, close to old kiln. Some moisture detected possibly perched groundwater in pore space. | | |
| | | 4 | 1.4 – 3.8 | CLAY. Brown highly weathered clay, very friable. Laminated and fractured throughout, waxy texture with some moisture in fractures. Becoming harder and more brittle with depth to a cemented mudstone. | | |
| | | | | | | |
| Notes: | Small pool of | Small pool of water in base of pit most likely from perched groundwater | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP45 |
| Level: | mOD | Date: | 27/6/2005 |



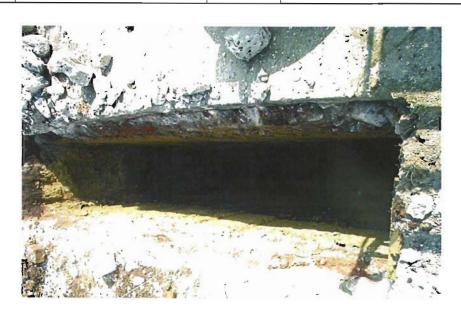
| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 – 0.1 | ASPHALT |
| | | 2 | 0.1 – 0.3 | MADE GROUND. Sand and gravel |
| | | 3 | 0.3 – 0.5 | MADE GROUND. Bricks and sand aggregate |
| | | 4 | 0.5 – 0.8 | MADE GROUND. Worked stiff clay layer, brown weathered flexible clay with high percentage of ash 80 % + |
| | | 5 | 0.8 – 2.7 | CLAY. Baked red clay, hard and cemented, some moisture possibly perched groundwater. Grading into the natural brown weathered, laminated and fractured clay, becoming harder and more brittle with depth. Some moisture in fractures |
| Notes: | | • | 1 | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP46 |
| Level: | 55.23mOD | Date: | 27/6/2005 |



| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 4.8 | MADE GROUND. Brown aggregate of clay and ash. Some cohesive clay layers, not very thick. Primarily an aggregate of ash, bricks, roots, gravels, with some ceramics and glass. Abundant rootlets in top 1 metre, overall semi cohesive unit. |
| Notes: | | | <u> </u> | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP47 |
| Level: | 53.33mOD | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|--|
| | | 1 | 0 0.1 | CONCRETE |
| | | 2 | 0.1 – 1.4 | MADE GROUND. Crushed brick and ash layer at top over a stiff clay layer 350 mm, on brown and weathered with some un weathered patches. Generally sticky and cohesive with some red brick fragments 750mm, on 300mm of crushed brick and ash. |
| | | 3 | 1.4 4.1 | CLAY. Brown weathered stiff clay, cohesive and flexible, becoming hard and brittle with depth, changing to laminated fractured clay, weathered and friable along laminae and fractures. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP48 |
| Level: | 55.18mOD | Date: | 27/6/2005 |



| Sample | Туре | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 – 5.4 | MADE GROUND. Top 0.5 metres non cohesive aggregate of brick, clay and ash. Becoming stiff and cohesive with depth, primarily clay based aggregate, grey weathered brown clay with some brick fragments and root material. No natural ground encountered only worked clay to base. |
| Notes: | | | | |

| Site: | WEALDEN BRICKWORKS | Client: | GAZELEY |
|----------|-----------------------|--------------|-----------|
| Job No.: | CS007890 | Hole No.: | TP49 |
| Level: | 52.69mOD | Date: | 27/6/2005 |



| Sample | Type | Unit | Depth (m) | Description |
|--------|------|------|-----------|---|
| | | 1 | 0 - 0.2 | CONCRETE |
| | | 2 | 0.2 – 0.4 | MADE GROUND. Uncohesive aggregate of brick and ash, coarse and granular. |
| | | 3 | 0.4 – 2.6 | CLAY. Brown weathered stiff clay, semi cohesive at top rapidly becoming hard and brittle with depth, changing to laminated fractured clay, weathered and friable along laminae and fractures. |
| Notes: | | | 1 | |

Cathaoir McDermott Capita Symonds Ltd Radius House, 51 Clarendon Road Watford WD17 1HU Page 1 of 9 pages

19th July 2005

TEST REPORT

Our Report No: B05005069

Your Order No: Instns of 09.07.2005

67 no. soil samples submitted for analysis on 09.07.2005

Project Name: The Brinkworks

Project Code: CS007890

Results enclosed: Pages 2-9

Laboratory analysis started on 09.07.2005
All laboratory analysis completed by 19th July 2005

Rexona Rahman
Project Co-ordinator
ALCONTROL TECHNICHEM

Leigh Barker
Project Co-ordinator
ALCONTROL TECHNICHEM

Test Methods are Documented in House Procedures or where appropriate Standard Methods.

Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.

All samples connected with this report, including any 'on hold', will be stored and disposed of according to Company policy. A copy of this policy is available on request.

SOIL ANALYTICAL RESULTS

Our Report No: B05005069

Page 2 of 9 pages

Your Order No: Instns of 09.07.2005

CLIENT: Capita Symonds Ltd

67 no. soil samples submitted for analysis on 09.07.2005

DATE OF ISSUE: 19th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05034233 | S05034235 | S05034236 | S05034237 | S05034238 | S05034239 | S05034240 | S05034241 | S05034242 | S05034243 |
|---|-------------------|------------|------------|------------|------------|------------|----------------|-------------------|-----------------|------------------|
| Sampling Date: | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | • | - |
| Sample Ref : | TP 2 | TP 4 | TP 4 | TP 5 | TP 5 | TP 11 | TP 11 | TP 12 | TP 12 | TP 12 |
| Depth(m): | 0.50 | 0.70 | 3.40 | 0.30 | 1.00 | 0.50 | 1.50 | 0.40 | 1.20 | 3.00 |
| Sample Type: | s | s | s | s | s | s | s | s | s | s |
| 025a Total (acid soluble) Sulphate as SO ₄ | 2900 | 560 | <200 | 1500 | 310 | 500 | 620 | 870 | 670 | 260 |
| 011 2:1 Water Soluble Sulphate as SO ₄ (g/l) | 0.84 | 0.05 | 0.03 | 0.16 | 0.05 | 0.08 | 0.16 | 0.26 | 0.15 | 0.05 |
| 032 Elemental Sulphur | <100 | 680 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| 026 Organic Carbon (%) | 1.0 | 3.5 | 0.5 | 0.60 | 2.2 | 0.4 | 0.4 | 0.7 | 0.6 | 2.0 |
| *Rapid PAH by GC-FID | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 065 Rapid TPH by GC-FID | 94 | 24000 | 7300 | 100 | <50 | <50 | <50 | <50 | <50 | <50 |
| 016 Arsenic | 18 | 14 | 3 | 12 | 13 | 27 | 15 | 22 | 15 | 2 |
| 016 Cadmium | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 016 Chromium | 44 | 39 | 46 | 30 | 43 | 37 | 56 | 45 | 33 | 33 |
| 016 Lead | 46 | 28 | 28 | 41 | 21 | 28 | 27 | 31 | 30 | 17 |
| 016 Mercury | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| 016 Selenium | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 |
| 016 Copper | 50 | 55 | 41 | 23 | 30 | 30 | 41 | 33 | 16 | 26 |
| 016 Nickel | 36 | 47 | 50 | 24 | 53 | 43 | 52 | 30 | 22 | 36 |
| 016 Zinc | 160 | 110 | 96 | 86 | 110 | 110 | 120 | 71 | 59 | 79 |
| All results expressed in mg/kg dry weight basi | is, unless stated | | | | | | *denotes analy | sis outside the s | cope of our UKA | AS accreditation |

SOIL ANALYTICAL RESULTS

Our Report No: B05005069

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Your Order No: Instns of 09.07.2005

CLIENT: Capita Symonds Ltd

67 no. soil samples submitted for analysis on 09.07.2005

DATE OF ISSUE: 19th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05034244 | S05034245 | S05034246 | S05034247 | S05034248 | S05034249 | S05034250 | S05034251 | S05034252 | S05034253 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sampling Date: | • | - | - | - | - | - | - | - | - | - |
| Sample Ref : | TP 14 | TP 14 | TP 14 | TP 14 | TP 20 | TP 20 | TP 21 | TP 21 | TP 21 | TP 22 |
| Depth(m): | 0.50 | 2.00 | 3.00 | 4.50 | 1.00 | 1.80 | 0.50 | 1.50 | 3.50 | 0.40 |
| Sample Type: | S | S | S | S | s | S | S | S | s | s |
| 025a Total (acid soluble) Sulphate as SO ₄ | 15000 | 8200 | 1000 | 430 | 2000 | 2500 | 5100 | 82000 | 3100 | 630 |
| 011 2:1 Water Soluble Sulphate as SO ₄ (g/l) | 1.5 | 1.7 | 0.30 | 0.08 | 0.36 | 0.80 | 1.6 | 1.5 | 1.4 | 0.09 |
| 032 Elemental Sulphur | <100 | <100 | <100 | <100 | 330 | <100 | <100 | <100 | 220 | <100 |
| 026 Organic Carbon (%) | 0.5 | 1.9 | 3.5 | 2.60 | 2.7 | 0.8 | 1.5 | 0.4 | 0.9 | 1.9 |
| *Rapid PAH by GC-FID | <2 | <2 | <2 | <2 | 250 | <2 | <2 | <2 | <2 | <2 |
| 065 Rapid TPH by GC-FID | <50 | 540 | <50 | <50 | 3000 | 270 | 120 | 1100 | 120 | 8400 |
| 016 Arsenic | 76 | 47 | 14 | 14 | 16 | 16 | 56 | 120 | 23 | 20 |
| 016 Cadmium | <0.5 | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.0 | <0.5 | <0.5 |
| 016 Chromium | 41 | 39 | 37 | 44 | 44 | 43 | 39 | 49 | 43 | 46 |
| 016 Lead | 73 | 270 | 47 | 28 | 29 | 28 | 33 | 50 | 27 | 47 |
| 016 Mercury | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| 016 Selenium | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.9 | <0.5 | 1.2 |
| 016 Copper | 96 | 160 | 30 | 40 | 210 | 54 | 70 | 160 | 47 | 48 |
| 016 Nickel | 79 | 59 | 28 | 49 | 44 | 51 | 63 | 110 | 48 | 49 |
| 016 Zinc | 120 | 510 | 92 | 110 | 88 | 93 | 100 | 440 | 95 | 150 |

All results expressed in mg/kg dry weight basis, unless stated

*denotes analysis outside the scope of our UKAS accreditation

SOIL ANALYTICAL RESULTS

Our Report No: B05005069

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Your Order No: Instns of 09.07.2005

CLIENT: Capita Symonds Ltd

67 no. soil samples submitted for analysis on 09.07.2005

DATE OF ISSUE: 19th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05034254 | S05034255 | S05034256 | S05034257 | S05034258 | S05034259 | S05034260 | S05034261 | S05034262 | S05034263 |
|---|---------------|-----------|-----------|-----------|-----------|-----------|----------------|-------------------|-----------------|-----------------|
| Sampling Date: | - | - | - | - | - | - | - | - | | - |
| Sample Ref : | TP 22 | TP 24 | TP 24 | TP 25 | TP 25 | TP 25 | TP 26 | TP 26 | TP 27 | TP 27 |
| Depth(m): | 2.00 | 0.30 | 1.50 | 0.50 | 1.50 | 2.50 | 0.20 | 2.00 | 0.50 | 2.00 |
| Sample Type: | s | s | s | s | s | s | s | s | s | S |
| 025a Total (acid soluble) Sulphate as SO₄ | 570 | 2200 | 3100 | 250 | 660 | 5600 | 920 | 1500 | 430 | 1500 |
| 011 2:1 Water Soluble Sulphate as SO ₄ (g/l) | 0.12 | 0.22 | 1.2 | 0.06 | 0.06 | 1.6 | 0.25 | 0.45 | 0.10 | 0.38 |
| 032 Elemental Sulphur | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| 026 Organic Carbon (%) | 3.1 | 2.3 | 2.00 | 0.20 | 4.2 | 0.5 | 1.00 | 0.7 | 0.3 | 0.9 |
| *Rapid PAH by GC-FID | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 065 Rapid TPH by GC-FID | <50 | 3800 | 80 | 150 | 75 | <50 | 4200 | 74 | 62 | <50 |
| 016 Arsenic | 9 | 69 | 25 | 6 | 18 | 24 | 19 | 15 | 10 | 18 |
| 016 Cadmium | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 016 Chromium | 46 | 120 | 35 | _ 11 | 32 | 42 | 43 | 47 | 32 | 48 |
| 016 Lead | 20 | 170 | 17 | 6 | 44 | 22 | 36 | 23 | 21 | 20 |
| 016 Mercury | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| 016 Selenium | <0.5 | 2.0 | 1.0 | 2.0 | 0.6 | 0.5 | 1.2 | 0.6 | <0.5 | 1.2 |
| 016 Copper | 36 | 3600 | 32 | 5 | 77 | 69 | 64 | 38 | 29 | 34 |
| 016 Nickel | 49 | 240 | 41 | 7 | 57 | 53 | 46 | 45 | 37 | 51 |
| 016 Zinc | 86 | 1100 | 81 | 21 | 210 | 110 | 130 | 84 | 76 | 96 |
| All results expressed in mg/kg dry weight basis | unless stated | | | | | | *denotes analy | sis outside the s | cope of our UKA | S accreditation |

SOIL ANALYTICAL RESULTS

Our Report No: B05005069

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Your Order No: Instns of 09.07.2005

CLIENT: Capita Symonds Ltd

67 no. soil samples submitted for analysis on 09.07.2005

DATE OF ISSUE: 19th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | 505024204 | 505024265 | 005024000 | 00502405 | 005004000 | 005004000 | 005004050 | 005004054 | 005004055 | 005004655 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | S05034264 | S05034265 | S05034266 | S05034267 | S05034268 | S05034269 | S05034270 | S05034271 | S05034272 | S05034273 |
| Sampling Date: | - | - | - | - | | - | - | - | <u> </u> | • |
| Sample Ref : | TP 28 | TP 28 | TP 29 | TP 29 | TP 34 | TP 34 | TP 38 | TP 38 | TP 38 | TP 39 |
| Depth(m): | 0.30 | 2.50 | 1.00 | 3.50 | 0.50 | 1.10 | 0.40 | 1.00 | 1.50 | 0.40 |
| Sample Type: | s | s | s | s | s | s | S | S | S | s |
| 025a Total (acid soluble) Sulphate as SO ₄ | 610 | 1300 | 3200 | 6500 | 3400 | 2400 | 3600 | 4800 | 270 | 2600 |
| 011 2:1 Water Soluble Sulphate as SO ₄ (g/l) | 0.09 | 0.38 | 0.49 | 1.8 | 1.1 | 0.71 | 0.44 | 0.31 | 0.06 | 0.24 |
| 032 Elemental Sulphur | <100 | <100 | <100 | 360 | <100 | <100 | <100 | <100 | <100 | <100 |
| 026 Organic Carbon (%) | 1.3 | 3.2 | 0.7 | 6.80 | 1.7 | 1.4 | 0.4 | 0.3 | 0.4 | 1.6 |
| *Rapid PAH by GC-FID | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 065 Rapid TPH by GC-FID | 1400 | 75 | 110 | 7000 | 200.0 | <50 | 110 | <50 | <50 | 130 |
| 016 Arsenic | 18 | 17 | 20 | 22 | 31 | 15 | 31 | 19 | 14 | 27 |
| 016 Cadmium | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 016 Chromium | 45 | 41 | 43 | 31 | 37 | 40 | 59 | 47 | 43 | 52 |
| 016 Lead | 41 | 18 | 40 | 49 | 32 | 21 | 44 | 69 | 26 | 130 |
| 016 Mercury | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| 016 Selenium | 0.6 | 1.0 | 1.2 | 3.8 | 0.9 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 |
| 016 Copper | 70 | 31 | 33 | 58 | 47 | 31 | 58 | 38 | 36 | 72 |
| 016 Nickel | 45 | 43 | 31 | 39 | 48 | 45 | 36 | 23 | 49 | 34 |
| 016 Zinc | 140 | 160 | 150 | 610 | 110 | 130 | 92 | 71 | 95 | 200 |

All results expressed in mg/kg dry weight basis, unless stated

*denotes analysis outside the scope of our UKAS accreditation

SOIL ANALYTICAL RESULTS

Our Report No: B05005069

Your Order No: Instns of 09.07.2005

67 no. soil samples submitted for analysis on 09.07.2005

Project Name: The Brinkworks

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CLIENT: Capita Symonds Ltd

DATE OF ISSUE: 19th July 2005

Project Code: CS007890

| Lab Daf No. | C0E024274 | C0E024275 | 005024270 | 606024277 | CDE024270 | S05034279 | S05034280 | S05034281 | S05034282 | S05034283 |
|---|------------------|-----------|-----------|-----------|-----------|-----------|----------------|-------------------|-----------------|-----------------|
| Lab Ref No: | S05034274 | S05034275 | S05034276 | S05034277 | S05034278 | 505034279 | 505034260 | 303034261 | 303034262 | 303034203 |
| Sampling Date: | - | • | - | - | - | - | - | • | - | • |
| Sample Ref : | TP 39 | TP 39 | TP 43 | TP 43 | TP 43 | TP 46 | TP 46 | TP 46 | TP 48 | TP 48 |
| Depth(m): | 1.00 | 2.00 | 0.50 | 1.00 | 3.00 | 0.50 | 2.00 | 3.00 | 0.40 | 1.50 |
| Sample Type: | ß | ø | s | s | S | Ø | S | S | S | S |
| 025a Total (acid soluble) Sulphate as SO₄ | 6200 | 610 | 62000 | 440 | 12000 | 2800 | 4300 | 3300 | 520 | 1100 |
| 011 2:1 Water Soluble Sulphate as SO ₄ (g/l) | 1.6 | 0.16 | 1.6 | 0.09 | 1.8 | 0.84 | 1.5 | 1.4 | 0.03 | 0.31 |
| 032 Elemental Sulphur | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| 026 Organic Carbon (%) | 0.8 | 2.7 | 2.8 | 0.3 | 1.3 | 1.4 | 2.3 | 0.7 | 1.6 | 2.2 |
| *Rapid PAH by GC-FID | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | 5.8 | <2 |
| 065 Rapid TPH by GC-FID | <50 | <50 | <50 | <50 | 93 | 110 | <50 | <50 | 130 | _57 |
| 016 Arsenic | 33 | 11 | 33 | 24 | 56 | 39 | 33 | 24 | 25 | 17 |
| 016 Cadmium | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 |
| 016 Chromium | 37 | 31 | 26 | 49 | 140 | 52 | 34 | 33 | 32 | 35 |
| 016 Lead | 42 | 22 | 33 | 18 | 350 | 260 | 49 | 26 | 63 | 19 |
| 016 Mercury | <0.3 | <0.3 | <0.3 | <0.3 | 0.4 | 0.6 | <0.3 | <0.3 | <0.3 | <0.3 |
| 016 Selenium | 1.1 | <0.5 | 2.0 | <0.5 | <0.5 | 1.4 | <0.5 | 0.8 | <0.5 | <0.5 |
| 016 Copper | 82 | 32 | 72 | 31 | 130 | 120 | 67 | 52 | 130 | 30 |
| 016 Nickel | 51 | 42 | 76 | 47 | 57 | 55 | 58 | 49 | 51 | 42 |
| 016 Zinc | 170 | 75 | 220 | 98 | 490 | 400 | 110 | 77 | 120 | 98 |
| All results expressed in mg/kg dry weight basis | s, unless stated | | | | | | *denotes analy | sis outside the s | cope of our UKA | S accreditation |

SOIL ANALYTICAL RESULTS

Our Report No: B05005069

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Your Order No: Instns of 09.07.2005

CLIENT: Capita Symonds Ltd

67 no. soil samples submitted for analysis on 09.07.2005

DATE OF ISSUE: 19th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05034284 | S05034285 | S05034286 | S05034287 | S05034288 | S05034289 | S05034290 | S05034291 | S05034292 | S05034293 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sampling Date: | - | | - | - | - | - | • | - | - | - |
| Sample Ref : | TP 48 | DS01 | DS01 | DS01 | DS05 | DS05 | DS05 | DS07 | DS07 | DS07 |
| Depth(m): | 3.50 | 0.90 | 1.90 | 2.50 | 0.60 | 1.90 | 3.50 | 0.25 | 1.90 | 3.90 |
| Sample Type: | S | S | S | s | S | S | S | s | s | s |
| 025a Total (acid soluble) Sulphate as SO ₄ | 860 | 37000 | 34000 | 1300 | | | | | | |
| 011 2:1 Water Soluble Sulphate as SO ₄ (g/l) | 0.21 | 1.5 | 1.4 | 0.40 | | | | | | |
| 032 Elemental Sulphur | <100 | <100 | <100 | <100 | | | - | | | |
| 026 Organic Carbon (%) | 2.2 | 1.6 | 1.6 | 0.90 | | | | _ | | |
| *Rapid PAH by GC-FID | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 065 Rapid TPH by GC-FID | 76 | 57 | <50 | <50 | 100 | <50 | 3500 | <50 | <50 | 69 |
| 016 Arsenic | 15 | 35 | 53 | 22 | | | | | | |
| 016 Cadmium | <0.5 | <0.5 | <0.5 | <0.5 | | | _ | | | |
| 016 Chromium | 31 | 28 | 29 | 40 | | _ | | | | |
| 016 Lead | 28 | 36 | 33 | 15 | | | | | | |
| 016 Mercury | <0.3 | <0.3 | <0.3 | <0.3 | | | | | | |
| 016 Selenium | <0.5 | 1.0 | 1.4 | 0.6 | | | | | | |
| 016 Copper | 30 | 75 | 86 | 29 | | | | | | |
| 016 Nickel | 35 | 58 | 62 | 43 | | | | | | |
| 016 Zinc | 70 | 100 | 79 | 73 | | | | | | |

All results expressed in mg/kg dry weight basis, unless stated

*denotes analysis outside the scope of our UKAS accreditation

SOIL ANALYTICAL RESULTS

Our Report No: B05005069

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Your Order No: Instns of 09.07.2005

CLIENT: Capita Symonds Ltd

67 no. soil samples submitted for analysis on 09.07.2005

DATE OF ISSUE: 19th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05034294 | S05034295 | S05034296 | S05034297 | S05034298 | S05034299 | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|--|---|--|
| Sampling Date: | • | - | - | • | - | - | | | |
| Sample Ref : | DS10 | DS10 | DS10 | DS14 | DS14 | DS14 | | | |
| Depth(m): | 0.20 | 1.00 | 2.00 | 0.40 | 1.50 | 3.50 | | | |
| Sample Type: | s | s | s | s | s | s | | | |
| 025a Total (acid soluble) Sulphate as SO ₄ | 1100 | <200 | <200 | 7000 | 890 | 530 | | | |
| 011 2:1 Water Soluble Sulphate as SO ₄ (g/l) | 0.28 | 0.04 | 0.03 | 1.6 | 0.25 | 0.16 | | | |
| 032 Elemental Sulphur | <100 | <100 | <100 | <100 | <100 | <100 | | · | |
| 026 Organic Carbon (%) | 4.3 | <0.1 | 2.5 | 3.20 | 4.2 | 2.9 | | | |
| *Rapid PAH by GC-FID | <2 | <2 | <2 | <2 | <2 | <2 | | | |
| 065 Rapid TPH by GC-FID | 660 | 69 | <50 | <50 | <50 | <50 | | | |
| 016 Arsenic | 17 | 9 | 17 | 40 | 6 | 26 | | | |
| 016 Cadmium | <0.5 | <0.5 | <0.5 | 5.0 | <0.5 | <0.5 | | | |
| 016 Chromium | 32 | 30 | 34 | 39 | 37 | 43 | | | |
| 016 Lead | 97 | 18 | 22 | 450 | 20 | 17 | | | |
| 016 Mercury | <0.3 | <0.3 | <0.3 | 0.8 | <0.3 | <0.3 | | | |
| 016 Selenium | 0.6 | <0.5 | <0.5 | 1.1 | <0.5 | <0.5 | | | |
| 016 Copper | 45 | 22 | 34 | 630 | 31 | 36 | | | |
| 016 Nickel | 24 | 31 | 34 | 64 | 37 | 46 | | | |
| 016 Zinc | 43 | 67 | 85 | 570 | 63 | 130 | | | |

SOIL ANALYTICAL RESULTS - 039 POLYCHLORINATED BIPHENYLS

Our Report No: B05005069

Page 9 of 9 pages

Your Order No: Instns of 09.07.2005

CLIENT: Capita Symonds Ltd

67 no. soil samples submitted for analysis on 09.07.2005

DATE OF ISSUE: 19th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05034235 | S05034236† | S05034248† | S05034249 | S05034257 | S05034258 | S05034259 | | | |
|---------------------------------------|------------|------------|------------|-----------|-----------|-----------|-----------|---|---|---|
| Sampling Date: | 20/06/2005 | 20/06/2005 | • | _ | - | - | - | | | |
| Sample Ref : | TP 4 | TP 4 | TP 20 | TP 20 | TP 25 | TP 25 | TP 25 | | | |
| Depth(m): | 0.70 | 3.40 | 1.00 | 1.80 | 0.50 | 1.50 | 2.50 | | | |
| Sample Type: | S | S | S | S | S | S | S | | | |
| | | | | | | | | _ | | |
| 039 Polychlorinated Biphenyls (PCB's) | | | | | _ | | | | _ | _ |
| PCB Congener 28 | + | <0.05 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| PCB Congener 52 | ‡ | <0.05 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| PCB Congener 101 | | <0.05 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| PCB Congener 118 | | <0.05 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| PCB Congener 138 | ‡ | <0.05 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| PCB Congener 153 | ‡ | <0.05 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| PCB Congener 180 | # | <0.05 | <0.05 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| Total PCBs | ‡ | ND | ND | ND | ND | ND | ND | | | |
| | | | | | | | | | | |

All results expressed in mg/kg dry weight basis

†denotes raised detection limit(s) due to matrix interference.

Total PCB = Sum of 7 identified components

‡ denotes unsuitable for analysis due to matrix interference.

ND denotes Not Detected

Cathaoir McDermott Capita Symonds Ltd Radius House, 51 Clarendon Road Watford WD17 1HU Page 1 of 8 pages

25th July 2005

TEST REPORT

Our Report No: B05005414 (Previous Report B05005069)

Your Order No: Instns of 20.07.2005

66 no. soil samples submitted for additional analysis on 20.07.2005

Project Name: The Brinkworks

Project Code: CS007890

Results enclosed: Pages 2-8

Laboratory analysis started on 20.07.2005

All laboratory analysis completed by 25th July 2005

Leigh Barker
Project Co-ordinator
ALCONTROL TECHNICHEM

Andy Dengel
Operations Manager
ALCONTROL TECHNICHEM

Test Methods are Documented In House Procedures or where appropriate Standard Methods.

Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.

All samples connected with this report, including any 'on hold', will be stored and disposed of according to Company policy. A copy of this policy is available on request.

SOIL ANALYTICAL RESULTS

Our Report No: B05005414 (Previous Report B05005069)

Your Order No: Instns of 20.07.2005

66 no. soil samples submitted for additional analysis on 20.07.2005

Project Name: The Brinkworks

Page 2 of 8 pages

CLIENT: Capita Symonds Ltd

DATE OF ISSUE: 25th July 2005

Project Code: CS007890

| Lab Ref No: | S05036680 | S05036681 | S05036682 | S05036683 | S05036684 | S05036685 | S05036686 | S05036687 | S05036688 | S05036689 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|
| Previous Lab Ref No: | \$05034233 | S05034235 | S05034236 | S05034237 | S05034238 | S05034239 | S05034240 | S05034241 | S05034242 | S05034243 |
| Sampling Date: | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | 20/06/2005 | | • |
| Sample Ref : | TP 2 | TP 4 | TP 4 | TP 5 | TP 5 | TP 11 | TP 11 | TP 12 | TP 12 | TP 12 |
| Depth(m): | 0.50 | 0.70 | 3.40 | 0.30 | 1.00 | 0.50 | 1.50 | 0.40 | 1.20 | 3.00 |
| Sample Type: | s | s | s | S | s | s | s | S | s | s |
| 009 pH | 7.2 | 7.3 | 6.9 | 10.0 | 7.5 | 8.2 | 7.3 | 7.0 | 6.8 | 6.6 |
| | | | | | | | | | | |

SOIL ANALYTICAL RESULTS

Our Report No: B05005414 (Previous Report B05005069)

Page 3 of 8 pages

Your Order No: Instns of 20.07.2005

CLIENT: Capita Symonds Ltd

66 no. soil samples submitted for additional analysis on 20.07.2005

DATE OF ISSUE: 25th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| 00000000 | 00000004 | 00500000 | 00500000 | 00500004 | 00500005 | 00500000 | 00500007 | 605026608 | 605026600 |
|-----------|-------------------------|---------------------|-------------------------------|---|--|---|--|--|---|
| S05036690 | S05036691 | S05036692 | S05036693 | S05036694 | \$05036695 | 805036696 | 505036697 | 505036698 | S05036699 |
| S05034244 | S05034245 | S05034246 | S05034247 | S05034248 | S05034249 | S05034250 | S05034251 | S05034252 | S05034253 |
| - | - | - | - | - | - | • | - | - | - |
| TP 14 | TP 14 | TP 14 | TP 14 | TP 20 | TP 20 | TP 21 | TP 21 | TP 21 | TP 22 |
| 0.50 | 2.00 | 3.00 | 4.50 | 1.00 | 1.80 | 0.50 | 1.50 | 3.50 | 0.40 |
| s | s | s | s | s | s | s | S | s | s |
| | | | | | | | | | |
| 7.4 | 7.1 | 6.7 | 6.2 | 7.5 | 7.1 | 7.2 | 7.5 | 7.7 | 8.1 |
| | | | | | | | | | |
| | - TP 14 0.50 S | S05034244 S05034245 | S05034244 S05034245 S05034246 | S05034244 S05034245 S05034246 S05034247 - - - - TP 14 TP 14 TP 14 TP 14 0.50 2.00 3.00 4.50 S S S | S05034244 S05034245 S05034246 S05034247 S05034248 - - - - - TP 14 TP 14 TP 14 TP 14 TP 20 0.50 2.00 3.00 4.50 1.00 S S S S | S05034244 S05034245 S05034246 S05034247 S05034248 S05034249 - - - - - - - TP 14 TP 14 TP 14 TP 20 TP 20 0.50 2.00 3.00 4.50 1.00 1.80 S S S S S | S05034244 S05034245 S05034246 S05034247 S05034248 S05034249 S05034250 - - - - - - - - TP 14 TP 14 TP 14 TP 20 TP 20 TP 21 0.50 2.00 3.00 4.50 1.00 1.80 0.50 S S S S S S | S05034244 S05034245 S05034246 S05034247 S05034248 S05034249 S05034250 S05034251 -< | S05034244 S05034245 S05034246 S05034247 S05034248 S05034249 S05034250 S05034251 S05034252 - |

SOIL ANALYTICAL RESULTS

Our Report No: B05005414 (Previous Report B05005069)

Your Order No: Instns of 20.07.2005

Project Name: The Brinkworks

66 no. soil samples submitted for additional analysis on 20.07.2005

Page 4 of 8 pages

CLIENT: Capita Symonds Ltd

DATE OF ISSUE: 25th July 2005

Project Code: CS007890

| | | | | | | | r | _ | | |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Lab Ref No: | S05036700 | S05036701 | S05036702 | S05036703 | S05036704 | S05036705 | S05036706 | S05036707 | S05036708 | S05036709 |
| Previous Lab Ref No: | S05034254 | S05034255 | S05034256 | S05034257 | S05034258 | S05034259 | S05034260 | S05034261 | S05034262 | S05034263 |
| Sampling Date: | | - | - | - | - | • | - | - | - | • |
| Sample Ref : | TP 22 | TP 24 | TP 24 | TP 25 | TP 25 | TP 25 | TP 26 | TP 26 | TP 27 | TP 27 |
| Depth(m): | 2.00 | 0.30 | 1.50 | 0.50 | 1.50 | 2.50 | 0.20 | 2.00 | 0.50 | 2.00 |
| Sample Type: | s | S | s | s | S | S | S | S | \$ | S |
| | | | | | | | | | | |
| 009 pH | 7.3 | 7.2 | 6.9 | 8.4 | 7.4 | 7.0 | 7.3 | 7.2 | 7.0 | 7.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |

SOIL ANALYTICAL RESULTS

Our Report No: B05005414 (Previous Report B05005069)

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Your Order No: Instns of 20.07.2005

CLIENT: Capita Symonds Ltd

66 no. soil samples submitted for additional analysis on 20.07.2005

DATE OF ISSUE: 25th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05036710 | S05036711 | S05036712 | S05036713 | S05036714 | \$05036715 | S05036716 | S05036717 | S05036718 | S05036719 |
|----------------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| Previous Lab Ref No: | S05034264 | S05034265 | S05034266 | S05034267 | S05034268 | S05034269 | S05034270 | S05034271 | S05034272 | S05034273 |
| Sampling Date: | - | - | - | - | - | - | - | - | - | - |
| Sample Ref : | TP 28 | TP 28 | TP 29 | TP 29 | TP 34 | TP 34 | TP 38 | TP 38 | TP 38 | TP 39 |
| Depth(m): | 0.30 | 2.50 | 1.00 | 3.50 | 0.50 | 1.10 | 0.40 | 1.00 | 1.50 | 0.40 |
| Sample Type: | s | s | s | S | S | s | S | \$ | S | S |
| | | | | | | | | | | |
| 009 pH | 7.1 | 7.2 | 8.0 | 7.3 | 7.7 | 7.2 | 8.7 | 10.3 | 7.6 | 9.7 |
| | | | | | | | | | | |
| | | | | | | | | | | |

SOIL ANALYTICAL RESULTS

Our Report No: B05005414 (Previous Report B05005069)

Your Order No: Instns of 20.07.2005

66 no. soil samples submitted for additional analysis on 20.07.2005

Project Name: The Brinkworks

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CLIENT: Capita Symonds Ltd

DATE OF ISSUE: 25th July 2005

Project Code: CS007890

| Lab Ref No: | S05036720 | S05036721 | S05036722 | S05036723 | S05036724 | S05036725 | S05036726 | S05036727 | S05036728 | S05036729 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Previous Lab Ref No: | S05034274 | S05034275 | S05034276 | S05034277 | S05034278 | S05034279 | S05034280 | S05034281 | S05034282 | S05034283 |
| Sampling Date: | - | - | - | - | - | - | - | - | - | - |
| Sample Ref : | TP 39 | TP 39 | TP 43 | TP 43 | TP 43 | TP 46 | TP 46 | TP 46 | TP 48 | TP 48 |
| Depth(m): | 1.00 | 2.00 | 0.50 | 1.00 | 3.00 | 0.50 | 2.00 | 3.00 | 0.40 | 1.50 |
| Sample Type: | S | S | S | S | s | s | S | S | s | S |
| 009 pH | 7.5 | 7.0 | 6.3 | 7.2 | 7.4 | 7.3 | 7.4 | 7.1 | 7.6 | 6.9 |
| | | | | | | | | | | |
| | | | | | | | | | | |

SOIL ANALYTICAL RESULTS

Our Report No: B05005414 (Previous Report B05005069)

Your Order No: Instns of 20.07.2005

CLIENT: Capita Symonds Ltd

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66 no. soil samples submitted for additional analysis on 20.07.2005

DATE OF ISSUE: 25th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05036730 | S05036731 | S05036732 | S05036733 | S05036734 | S05036735 | S05036736 | S05036737 | S05036738 | \$05036739 |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Previous Lab Ref No: | S05034284 | S05034285 | S05034286 | S05034287 | S05034288 | S05034289 | S05034290 | S05034291 | S05034292 | S05034293 |
| Sampling Date: | - | - | | - | - | | - | - | - | - |
| Sample Ref : | TP 48 | DS01 | DS01 | DS01 | DS05 | D\$05 | DS05 | DS07 | DS07 | D\$07 |
| Depth(m): | 3.50 | 0.90 | 1.90 | 2.50 | 0.60 | 1.90 | 3.50 | 0.25 | 1.90 | 3.90 |
| Sample Type: | S | S | s | s | s | s | s | S | S | S |
| | 7.4 | 7.0 | 7.3 | 7.5 | 6.2 | 7.0 | 7.3 | 7.4 | 7.3 | 7.2 |
| | | | | | | | | | | |
| | | | | | <u> </u> | | | | | |

SOIL ANALYTICAL RESULTS

Our Report No: B05005414 (Previous Report B05005069)

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Your Order No: Instns of 20.07.2005

CLIENT: Capita Symonds Ltd

66 no. soil samples submitted for additional analysis on 20.07.2005

DATE OF ISSUE: 25th July 2005

Project Name: The Brinkworks

Project Code: CS007890

| Lab Ref No: | S05036740 | S05036741 | S05036742 | S05036743 | S05036744 | S05036745 | | | |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|------|----------|---|
| Previous Lab Ref No: | S05034294 | S05034295 | S05034296 | S05034297 | S05034298 | S05034299 | | | |
| Sampling Date: | - | • | - | - | - | - | | | |
| Sample Ref : | DS10 | DS10 | DS10 | D\$14 | DS14 | DS14 | | | |
| Depth(m): | 0.20 | 1.00 | 2.00 | 0.40 | 1.50 | 3.50 | | | |
| Sample Type: | S | S | S | S | s | s | | | |
| | 7.6 | 7.6 | 6.9 | 7.1 | 6.2 | 6.8 | | <u> </u> | _ |
| | | | | - | | | | _ | |

Cathoir McDermott Capita Symonds Ltd Radius House, 51 Clarendon Road Watford WD17 1HU Page 1 of 6 pages

16th August 2005

TEST REPORT

Our Report No: B05005943

Your Order No: CS007890

7 no.water samples submitted for analysis on 06.08.2005

Project Name: The brickworks

Project Code: CS007890

Results enclosed: Pages 2-6

Laboratory analysis started on 06.08.2005
All laboratory analysis completed by 16th August 2005

Leigh Barker
Project Co-ordinator
ALCONTROL TECHNICHEM

Peter Morley Site Manager

ALCONTROL TECHNICHEM

Test Methods are Documented In House Procedures or where appropriate Standard Methods.

Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.

All samples connected with this report, including any 'on hold', will be stored and disposed of according to Company policy. A copy of this policy is available on request.

WATER ANALYTICAL RESULTS

Our Report No: B05005943

Page 2 of 6 pages

Your Order No: CS007890

CLIENT: Capita Symonds Ltd

7 no.water samples submitted for analysis on 06.08.2005

DATE OF ISSUE: 16th August 2005

Project Name: The brickworks

Project Code: CS007890

| Lab Ref No: | S05040300 | S05040301 | S05040302 | S05040303 | S05040304 | S05040305 | S05040306 | | |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|---|--|
| Sampling Date: | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | | |
| Sample No: | DS07 | DS10 | BH2 | BH3 | BH4 | BH6 | BH7 | | |
| Sample Type: | W | w | W | W | w | w | w | | |
| 009 pH | 7.3 | 7.3 | 6.9 | 6.8 | 7.2 | 7.1 | 6.9 | | |
| 016 Sulphate as SO ₄ | 100 | 230 | 150 | 240 | 160 | 420 | 1200 | | |
| 016 Dissolved Arsenic | 0.013 | 0.015 | 0.008 | 0.012 | 0.010 | 0.020 | 0.022 | | |
| 016 Dissolved Cadmium | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 016 Dissolved Chromium | 0.011 | <0.01 | <0.01 | <0.01 | 0.011 | <0.01 | <0.01 | | |
| 016 Dissolved Lead | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | |
| 028 Dissolved Mercury | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | _ | |
| 016 Dissolved Selenium | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | |
| 016 Dissolved Copper | 0.008 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 016 Dissolved Nickel | <0.005 | <0.005 | 0.016 | 0.007 | <0.005 | 0.007 | 0.009 | | |
| 016 Dissolved Zinc | 0.055 | <0.005 | 0.019 | <0.005 | <0.005 | <0.005 | 0.014 | | |

WATER ANALYTICAL RESULTS - 022 PAH SPECIATED

Our Report No: B05005943

Page 3 of 6 pages

Your Order No: CS007890

CLIENT: Capita Symonds Ltd

7 no.water samples submitted for analysis on 06.08.2005

DATE OF ISSUE: 16th August 2005

Project Name: The brickworks

Project Code: CS007890

| Lab Ref No: | S05040300 | S05040301 | S05040302 | S05040303 | S05040304 | S05040305 | S05040306 | | | |
|-------------------------------|------------|------------|----------------|------------|------------|------------|----------------|-------------------|---------------|--|
| Sampling Date: | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | 02/08/2005 | | | |
| Sample No: | DS07 | DS10 | BH2 | ВН3 | BH4 | BH6 | ВН7 | | | |
| Sample Type: | w | w | w | w | w | w | w | | | |
| Naphthalene | <0.0001 | 0.00012 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Acenaphthylene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Acenaphthene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Fluorene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | _ | | |
| Phenanthrene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Anthracene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Fluoranthene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Pyrene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Benzo (a) anthracene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Chrysene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Benzo (b) fluoranthene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Benzo (k) fluoranthene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Benzo (a) pyrene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Indeno (1,2,3-cd) pyrene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Dibenzo (a,h) anthracene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Benzo (g,h,i) perylene | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | | | |
| Total PAH | ND | 0.00012 | ND | ND | ND | ND | ND | | | |
| All results expressed in mg/l | <u> </u> | | ND denotes Not | Detected | | | Total PAH = Su | m of 16 identifie | ed components | |

| WATER ANALYTICAL RESU | JLTS - 039 POL | YCHLORINAT | ED BIPHENY | 'LS | | | | | |
|--|----------------------|------------|------------|-----|----------|---|-------------|------------------|------------------|
| Our Report No: B05005943 | | | | | | | | Pa | age 4 of 6 pages |
| Your Order No: CS007890 | | | | | | | | CLIENT: Cap | ita Symonds Ltd |
| | | | | | | | | | |
| 7 no.water samples submitted for a | nalysis on 06.08.200 | <u>05</u> | | | | | DA | TE OF ISSUE: 10 | 6th August 2005 |
| Project Name: The brickworks | | | | | | | | Project C | Code: CS007890 |
| Lab Ref No: | S05040304 | | | | | | | | |
| Sampling Date: | 02/08/2005 | | | | | | | | |
| Sample No: | BH4 | | | | | | | | |
| Sample Type: | w | | | | 1 | _ | | | |
| 039 Polychlorinated Biphenyls (PCB's) | | | | | | | | | |
| PCB Congener 28 | <0.005 | | | | | | | | |
| PCB Congener 52 | <0.006 | | | | | - | | | |
| PCB Congener 101 | <0.006 | | | | | | | | |
| PCB Congener 118 | <0.007 | | | | | | | | |
| PCB Congener 138 | <0.006 | | | | | | | | |
| PCB Congener 153 | <0.007 | | | | | | | | _ |
| PCB Congener 180 | <0.006 | | | | | | | | |
| Total PCBs | ND ND | | | | | | | | |
| All results expressed in mg/l ND denotes Not Detected | | | | 1 | <u> </u> | | Total PCB = | Sum of 7 identif | ied components |

Our Report No: B05005943

Your Order No: CS007890

CLIENT: Capita Symonds Ltd

7 no.water samples submitted for analysis on 06.08.2005

Project Code: CS007890

WATER - RESULTS

| Lab Ref No: | Sampling Date: | Sample No: | Sample Type: | 072 TPH by GC-FID (C ₁₀ -C ₄₀) | Description |
|-------------|-------------------|------------|--------------|--|--|
| S05040300 | 02/08/2005 | DS07 | w | 0.16 | The sample chromatogram contains a hump of unresolved complex material overlain by a series of peaks ranging between C_{10} and C_{30} . |
| S05040301 | 02/08/2005 | DS10 | w | <0.01 | The sample chromatogram contains too little GC-FID amenable material for qualitative description. |
| S05040302 | 02/08/2005 | BH2 | w | <0.01 | The sample chromatogram contains too little GC-FID amenable material for qualitative description. |
| \$05040303 | 02/08/2005 | ВН3 | w | <0.01 | The sample chromatogram contains too little GC-FID amenable material for qualitative description. |

NOTE:

- (i) The method provides information only on Gas Chromatograph (GC) amenable material with elutions ranging between 40°C and 325°C.
- (ii) The results are expressed as mg/l.

*Denotes analysis outside the scope of our UKAS accreditation.

ALcontrol Technichem

Project Name: The brickworks

Our Report No: B05005943

Your Order No: CS007890

CLIENT: Capita Symonds Ltd

7 no.water samples submitted for analysis on 06.08.2005

DATE OF ISSUE: 16th August 2005

Project Code: CS007890

Project Name: The brickworks

WATER - RESULTS

| Lab Ref No: | Sampling Date: | Sample No: | Sample Type: | 072 TPH by GC-FID (C ₁₀ -C ₄₀) | Description |
|-------------|-------------------|------------|--------------|--|--|
| S05040304 | 02/08/2005 | BH4 | w | <0.01 | The sample chromatogram contains too little GC-FID amenable material for qualitative description. |
| S05040305 | 02/08/2005 | вн6 | w | 0.08 | The sample chromatogram contains a hump of unresolved complex material overlain by a series of peaks ranging between C_{10} and C_{40} . |
| S05040306 | 02/08/2005 | ВН7 | w | <0.01 | The sample chromatogram contains too little GC-FID amenable material for qualitative description. |
| | | | | | |
| | | | | | |

NOTE:

- (i) The method provides information only on Gas Chromatograph (GC) amenable material with elutions ranging between 40°C and 325°C.
- (ii) The results are expressed as mg/l.

*Denotes analysis outside the scope of our UKAS accreditation.

| Project Na | me: | THE BRICI | KWORKS, | WARNHAM | | | | Trial School Service | Date: | 2/8/2005 | and for loss | |
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| Project No | | CS007890 | | | | | | | Weather: | Sunny | Water Street | |
| Client: | CHECKEN TO BE | GAZELEY | LTD | ROLL STATE | | TO DE VI | | CAN DECEMBER | Page: | 1 of 4 | Fall Court | TIS U |
| N-SITU G | AS MONITO | RING | | | | | | | | | | |
| Location | Date | Depth | | Atmos. | Gas | Gas | | Time | Methane | Methane | Carbon | Oxygen |
| Ref: | | to water | | Pressure | Pressure | Flow | | | | i i | Dioxide | |
| | | m bgl | | mb | Pa | L/Hr | | sec | % LEL | % v/v | % v/v | % v/v |
| BH1 | 2/8/2005 | DRY | | 1014 | NR | | 0 | 15 | 1 | 0.1 | 2 | NR |
| | | | | | | | 0 | 30 | 1 | 0.1 | 1.4 | NR |
| | | | | | | | 0 | 60 | 1 | 0.1 | 1.4 | NR |
| | | | | | | | 0 | 120 | 1 | 0.1 | 1.4 | NR |
| | | | | | | | 0 | 180 | 1 | 0.1 | 1.4 | NR |
| | | | | | | | | | | | | |
| BH2 | 2/8/2005 | 2.2 | | 1014 | NR | | 0 | 15 | 0 | 0 | | NR |
| | | | | | | | 0 | 30 | 0 | 0 | | NR |
| | | | | | | | 0 | 60 | 0 | 0 | | NR |
| | | _ | | | | | 0 | 120 | 0 | 0 | | NR |
| | | | | | | | 0 | 180 | 0 | 0 | 0.5 | NR |
| 3H3 | 2/8/2005 | 2.58 | | 1014 | NR | | 0 | 15 | 0 | 0 | 1.8 | NR |
| | | | | | | | 0 | 30 | 0 | - | | NR |
| | | _ | ,- <u>-</u> | | | 1 | 0 | 60 | 0 | | | NR |
| | | | | | | | 0 | 120 | 0 | | | NR |
| | | | | | | | 0 | 180 | 0 | 0 | | NR |
| Comments | : n/d denote | s not detec | l ted. N⊮Rde | notes not re | ad. | | <u> </u> | Instrument | | Geotechnic | al Instrume | ents |
| | | | | T | | | | GA2000 | | | | |
| Oxygen no | t calibrated | no reading | available | t | | t | 1 | Recorded t | ov: | CMD | | |

| Project Na | ame: | THE BRICK | KWORKS, | WARNHAM | THE REAL PROPERTY. | I PER CHARGO PROPERTY AND PROPE | | | Date: | 2/8/2005 | | |
|------------|---------------|--------------|------------|--|--------------------------|--|--|----------------------|----------|-----------|--|--------|
| Project No | 0.: | CS007890 | | PARTIE DE | DAVING BUILDING | | | | Weather: | Sunny | | |
| Client: | N STORES | GAZELEY | LTD | | | THE STATE OF THE PARTY OF THE P | STREET, STREET | | Page: | 2 of 4 | | |
| IN-SITU C | SAS MONITO | ORING | | | | | | | | | | |
| Location | Date | Depth | | Atmos. | Gas | Gas | | Time | Methane | Methane | Carbon | Oxygen |
| Ref: | | to water | | Pressure | Pressure | Flow | | | | | Dioxide | |
| | | m bgl | | mb | Pa | L/Hr | | Sec | % LEL | % v/v | % v/v | % v/v |
| BH4 | 2/8/2005 | 3.02 | | 1014 | | † 0 | | 15 | O | 0 | | NR |
| | | | | | | 0 | | 30 | 0 | 0 | | NR |
| | | | | | | 0 | | 60 | 0 | 0 | | NR |
| | | | | | | 0 | | 120 | 0 | 0 | | NR |
| | | | | | | 0 | | 180 | 0 | 0 | 0.1 | NR |
| a a | | | | | | | | | | | | |
| BH5 | 2/8/2005 | 3.5 | | 1014 | | 0 | | 15 | | 0 | 1.4 | |
| | | | | 1 | | 0 | | 30 | | <u> </u> | | |
| | | | | | | 0 | | 60 | | 0 | | |
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| | | | | | | C | | 180 | 0 | 0 | 1.4 | |
| | | | | | | | | <u> </u> | | | | |
| ВН6 | 2/8/2005 | 3.13 | | 1014 | | 0 | t | 15 | | | | |
| | | | | <u> </u> | |] 0 | 14 | 30 | | | | · |
| | | | | | |] 0 | 1 | 60 | | | • • • | 4 |
| | | | | | | [0 | H | 120 | | | | |
| | | | | | | 0 | | 180 | C | 0 | 0.4 | |
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| Comment | 5. IVO GEROR | is not detec | led. NA GE | anores not le | au. T | 1 | | Instrument GA2000 | | Geolechni | Tarinstrume | TINS |
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| Project Na | me: | THE BRICI | KWORKS, | WARNHAM | | | | SERVICE STATE | Date: | 2/8/2005 | | |
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| Project No |).: | CS007890 | | 多 在 150 次 150 | | 1000 | | | Weather: | Sunny | | |
| Client: | | GAZELEY | LTD | | DES LIGHT | 100000 | | | Page: | 1 of 4 | | |
| | AS MONITO | | | | | | $\overline{}$ | | | | | |
| Location | Date | Depth | | Atmos. | Gas | Gas | | Time | Methane | Methane | Carbon | Oxygen |
| Ref: | | to water | | Pressure | Pressure | Flow | | | | | Dioxide | |
| | | m bgl | | mb | Pa | L/Hr | | sec | % LEL | % v/v | % v/v | % v/v |
| BH7 | 2/8/2005 | 2.87 | | 1014 | NR | | 0 | 15 | 0 | 0 | 0.5 | NR |
| | 1 | | | | | | 0 | 30 | 0 | 0 | | NR |
| | | | | | | | 0 | 60 | 0 | 0 | | NR |
| | | | | | | | 0 | 120 | | 0 | | NR |
| | | | | | | | 0 | 180 | 0 | 0 | 0.3 | NR |
| | | | | | | | | | | | | |
| BH8 | 2/8/2005 | DRY | | 1014 | NR | | 0 | 15 | | 0 | | NR |
| | | | | | | | 0 | 30 | 0 | 0 | | NR |
| | ì | | | | | | 0 | 60 | 0 | 0 | | NR |
| <u> </u> | | | | | | | 0 | 120 | 0 | 0 | | NR |
| | | | | | | 1 | 0 | 180 | 0 | 0 | 0.5 | NR |
| 3H9 | 2/8/2005 | 2.58 | | 1014 | NR | | 0 | 15 | 0 | 0 | 2.5 | NR |
| | | | | | | | 0 | 30 | | 0 | | NR |
| | | | | 1 | | | 0 | 60 | 0 | 0 | | NR |
| | | | | | | | 0 | 120 | 0 | 0 | 3.2 | NR |
| | | | | | | | 0 | 180 | 0 | 0 | 3.2 | NR |
| Comments | l s: n/d denote | s not detec | ted. NR de | notes not re | l ad. | | + | Instrument | | Geotechnic | cal Instrume | nts |
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| Project N | ame: | THE BRICK | WORKS, | WARNHAM | | | MINISTER STATE | | Date: | 2/8/2005 | | Military St. |
|--------------|---------------------------------------|--------------|----------------|-------------------|-----------|------|----------------|------------|--|------------------------------------|--------------|--------------|
| Project N | 0.: | CS007890 | STREET, STREET | | | | See Allen | | Weather: | Sunny | | |
| Client: | I I I I I I I I I I I I I I I I I I I | GAZELEY | LTD | | 5013100 | | | | Page: | 2 of 4 | | THE RESERVE |
| IN-SITU | GAS MONITO | ORING | | | | | | | | | | |
| Location | Date | Depth | BUILTING | Atmos. | Gas | Gas | | Time | Methane | Methane | Carbon | Oxygen |
| Ref: | | to water | | Pressure | Pressure | Flow | | | | | Dioxide | |
| 1 | | m bgl | , | mb | Pa | L/Hr | | sec | % LEL | % v/v | % v/v | % v/v |
| BH10 | 2/8/2005 | DRY | | 1014 | | C | i e | 15 | 4 | 0.4 | | NR |
| | | | | Ĭ | | 0 | | 30 | 4 | 0.4 | | NR |
| | | | | | | 0 | | 60 | 4 | 0.4 | | NR |
| | | | | | | C | | 120 | 4 | 0.4 | | NR |
| | | | | | | 0 | | 180 | 4 | 0.4 | 4.6 | NR |
| | | | | 1 | | I | | | | | | |
| DS01 | 2/8/2005 | DRY | | 1014 | | C | | 15 | 0 | 0 | | NR |
| | | | | | | 0 | i | 30 | 0 | 0 | | NR |
| | | | | | | 0 | | 60 | 0 | 0 | | NR |
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| | | | | | | 0 | | 180 | 0 | 0 | 1.4 | NR |
| DS07 | 2/8/2005 | 1.92 | | 1014 | | 1 6 | | 15 | 0 | 0 | 1 | |
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| | 1 | | | | | 1 0 | | 60 | 0 | 0 | 1 | |
| | <u> </u> | | | | | 0 | | 120 | 0 | 0 | 1 | |
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| Commen | _ ts: n/d denote | s not detect | ted. NRde | enotes not re | l ead. | 1 | | Instrument | | Geotechni | cal Instrume | ents |
| | 1 | | | 1 | | | † | GA2000 | | | | |
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| NO PRINCIPAL | | CONTRACTOR S | | | | | | | STATE OF THE PARTY | THE RESERVE OF THE PERSON NAMED IN | 235 | |

| Project Nar | ne: | THE BRICE | KWORKS, | WARNHAM | 4 | | | | Date: | 2/8/2005 | | Balles |
|-------------------|--------------|-------------|-------------|--|-----------|------|--------------------|--------------------|----------|------------|----------------|--------|
| Project No.: | | CS007890 | | The state of the s | THE PARTY | | THE REAL PROPERTY. | Ditta=14 | Weather: | Sunny | | 10000 |
| Client: | Color Bridge | GAZELEY | | | -100 | | 100 F-100 | THE REAL PROPERTY. | Page: | 1 of 4 | Section of the | TE BUS |
| | AS MONITO | | | | | | | | | | | |
| | Date | Depth | DE LINE | Atmos. | Gas | Gas | | Time | Methane | Methane | Carbon | Oxygen |
| Ref: | | to water | | | Pressure | Flow | | | | | Dioxide | 10 |
| | | m bgl | | mb | Pa | L/Hr | | sec | % LEL | % v/v | % v/v | % v/v |
| DS10 | 2/8/2005 | 1.15 | | 1014 | NR | 0 | | 15 | 0 | 0 | 0.4 | NR |
| | | | | _ | , | 0 | | 30 | 0 | 0 | | NR |
| | | | | | | 0 | | 60 | | 0 | | NR |
| | | | | | | 0 | | 120 | Ō | 0 | | NR |
| | | | | | | 0 | | 180 | 0 | 0 | 0.4 | NR |
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| D\$13 | 2/8/2005 | 3.13 | | 1014 | NR | 0 | | 15 | 0 | 0 | | NR |
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| Comments: n/d den | | s not detec | ieu. Nik de | notes not re | ao. | | - | Instrument | | Geotechnic | cal Instrume | T |
| Dys. et an not | anlibrated | no roadina | avoilable | | | _ | 1 | GA2000 | 1 | CMD | - | - |
| Jaygen no | calibrated | no reading | avaliable | | | - | | Recorded | by. | CIMD | | |

Appendix D 2010 Ground Investigation Results

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 07970 460 427 Number Mobile: (Window Sampling) Web: www.windowsampling.com **WS501 Drilling Equipment:** Engineer: Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor 130 Client: Elevation AOD: Easting: Northing: Finish: 12/03/2010 12/03/2010 1:50 Capita Symonds **GROUND WATER SAMPLES & IN SITU TESTING** STRATA RECORD Sheet 1 of 1 Depth/Type P/P Standard Penetration Depth Key Description Sampler / Depth (kg/cm2) Testing (m) (m) Recovery (m) MADE GROUND: stiff yellow brown locally grey variegated slightly sandy gravely CLAY. Gravel is mudstone & brick. MADE GROUND: (loose) dark grey silty fine SAND. N=2 (0,0/1,1,0,0) MADE GROUND: (loose) yellow brown fine medium & coarse SAND. MADE GROUND: soft to firm locally soft light blue grey locally yellow brown variegated gravely CLAY. Gravel is angular fine medium & coarse weak N=1 (0,0/0,0,1,0) 101mm WLS mudstone occasional brick & disseminated clinker. N=1 (0,0/1,0,0,0) N=2 (0,0/1,1,0,0) 92mm WLS 30% N=16 (0,0/0,5,5,6) Very weak to weak blue grey thinly laminated 45/150mm - Abandoned 92mm WLS 86% End of Borehole at 6.15 m Remarks / Well Installation / Casing Details Depth to water strike 6.15m BGL: refusal. Backfilled with arisings. WLS - Windowless Sampler Standing water depth WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD** Borehole ++44 (0) 1305 774157 07970 460 427 Tel / Fax: (Window Sampling) Number Mobile: www.windowsampling.com Web: **WS502** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Client: Elevation AOD: Easting: Northing: Finish: Scale: 12/03/2010 12/03/2010 1:50 Capita Symonds **GROUND WATER** Sheet 1 of 1 SAMPLES & IN SITU TESTING STRATA RECORD Strike Well Depth Depth/Type P/P Standard Penetration Sampler / Depth Key Description (kg/cm2) (m) (m) Testing Recovery MADE GROUND: stiff grey brown slightly sandy gravely CLAY. Gravel is mudstone with disseminated brick & clinker. Stiff to very stiff light yellow brown yellow locally orange brown variegated CLAY with lithorelics grading to poorly developed thinly laminated fabric. N=25 (4,5/6,6,7,6) Very weak to weak yellow brown locally brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity N=44 (6,7/10,10,11,13) 101mm WLS surfaces. N=62 (9, 10/12, 14, 15, 21) 70mm WLS End of Borehole at 3.45 m Remarks / Well Installation / Casing Details WLS - Windowless Sampler

3.45m BGL: refusal, Backfilled with arisings



WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 Number 07970 460 427 Mobile: (Window Sampling) www.windowsampling.com Web: **WS503** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor 130 Client: Elevation AOD: Easting: Northing: Start: Finish: Scale: 12/03/2010 Capita Symonds 12/03/2010 1:50 STRATA RECORD **GROUND WATER** SAMPLES & IN SITU TESTING Sheet 1 of 1 Depth Depth/Type Standard Penetration Description Well Sampler / Depth Key (kg/cm2) (m) (m) Testing Recovery MADE GROUND: soft to firm locally firm yellow brown locally grey variegated gravely cobbly CLAY. Gravel & cobbles are angular fine medium & coarse weak mudstone occasional brick. N=29 (5,6/8,8,7,6) Very weak to weak blue grey thinly laminated MUDSTONE. Stained orange brown on discontinuity surfaces towards top. N=40 (5,7/7,10,10,13) 101mm WLS Very weak to weak light yellow brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity surfaces. 43/150mm - Abandoned 3 End of Borehole at 3.15 m 5 8 Remarks / Well Installation / Casing Details WLS - Windowless Sampler 3.15m BGL: refusal. Backfilled with arisings. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 (Window Sampling) Number Mobile: 07970 460 427 Web: www.windowsampling.com WS504 Site: Engineer: **Drilling Equipment:** T & P Regeneration Ltd Brookhurst Wood, Wealdland Brickworks, Horsham Competitor 130 Client: Elevation AOD: Easting: Northing: Start: Finish: Scale: 11/03/2010 11/03/2010 1:50 Capita Symonds **GROUND WATER** Sheet 1 of 1 **SAMPLES & IN SITU TESTING** STRATA RECORD Depth/Type Key Description (m) (m) (kg/cm2) Testing Recovery (m) MADE GROUND: firm to stiff grey brown brown / grey variegated gravely CLAY. Gravel is angular fine medium & coarse weak mudstone ash brick and N=9 (1,1/2,3,2,2) 101mm WLS 90% Very stiff grey thinly laminated extremely closely fissured CLAY. Stained brown on discontinuity surfaces at top. Grades to mudstone at base. N=34 (3,5/8,9,8,9) N=61 (7,9/12,17,15,17) End of Borehole at 3.45 m Remarks / Well Installation / Casing Details Depth to water strike WLS - Windowless Sampler 3.45m BGL: refusal. Backfilled with arisings. Standing water depth WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** ++44 (0) 1305 774157 07970 460 427 Tel / Fax: Number Mobile: (Window Sampling) www.windowsampling.com Web: **WS505** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor 130 **Client:** Elevation AOD: Easting: Northing: Finish: 12/03/2010 12/03/2010 1:50 Capita Symonds **GROUND WATER SAMPLES & IN SITU TESTING** STRATA RECORD Sheet 1 of 1 Well Depth/Type P/P Standard Penetration Key Strike Depth Sampler / Depth Description (kg/cm2) (m) (m) Testing MADE GROUND: firm to stiff locally firm yellow brown locally dark grey slightly sandy gravely cobbly CLAY. Clasts include mudstone with brick & clinker abundant at top. MADE GROUND: (loose) dark red brown / dark grey brown silty sandy ashy GRAVEL of clinker coke N=5 (1,1/1,2,1,1) MADE GROUND: (loose) dark yellow brown / grey brown silty gravely SAND. Gravel includes clinker coke mudstone brick. MADE GROUND: firm locally firm to stiff yellow brown / grey variegated gravely cobbly CLAY. Gravel & cobbles are angular fine medium & coarse weak mudstone brick & clinker. N=12 (1,3/3,4,3,2) 92mm WLS N=7 (2,3/3,1,1,2) MADE GROUND: (loose) dark red brown / dark grey brown silty sandy ashy GRAVEL of clinker coke Soft to firm becoming firm to stiff yellow brown light grey mottled becoming blue grey & dark grey CLAY. N=10 (0,0/0,0,5,5) Weak to moderately weak brown grey variegated thinly laminated fissured MUDSTONE. Stained orange 74 (6,16/-74 for 225mm) 70mm WLS 70% brown & dark brown on discontinuity surfaces. End of Borehole at 5.38 m 8 Remarks / Well Installation / Casing Details WLS - Windowless Sampler 5.375m BGL: refusal. Backfilled with arisings. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** ++44 (0) 1305 774157 Number Mobile: 07970 460 427 (Window Sampling) Web: www.windowsampling.com **WS506 Drilling Equipment:** Site: Engineer: Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Client: Northing: Start: Finish: Scale: Elevation AOD: Easting: 12/03/2010 12/03/2010 1:50 Capita Symonds Sheet 1 of 1 **GROUND WATER** SAMPLES & IN SITU TESTING STRATA RECORD Depth/Type Description Sampler / Depth (kg/cm2) (m) (m) Testing Recovery (m) MADE GROUND: firm becoming firm to stiff grey yellow brown silty CLAY. N=20 (5,5/3,4,6,7) MADE GROUND: firm locally firm to stiff yellow brown / grey variegated gravely cobbly CLAY. Gravel & cobbles are angular fine medium & coarse weak mudstone & brick. N=20 (4,4/4,5,5,6) 101mm WLS N=6 (2,2/2,1,1,2) N=8 (2,1/2,1,2,3) MADE GROUND: firm locally firm to stiff yellow brown / grey variegated gravely cobbly CLAY. Gravel & cobbles are angular fine medium & coarse weak mudstone. Locally discrete black organic partings & occasional wood fragments that retain strength. N=10 (2,1/2,1,2,5) Soft to firm becoming firm to stiff yellow brown light grey mottled CLAY. Very weak to weak light yellow brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity surfaces. 35/150mm - Abandoned 70mm WLS End of Borehole at 5.95 m Remarks / Well Installation / Casing Details 5.95m BGL: refusal. Backfilled with arisings. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 07970 460 427 Number Mobile: (Window Sampling) www.windowsampling.com Web: **WS507** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Client: Elevation AOD: Easting: Northing: Start: Finish: Scale: 1:50 12/03/2010 12/03/2010 Capita Symonds Sheet 1 of 1 **GROUND WATER SAMPLES & IN SITU TESTING** STRATA RECORD Depth/Type P/P Standard Penetration Key Description Depth Sampler / Depti (m) (kg/cm2) Recovery (m) Testing MADE GROUND: firm becoming firm to stiff grey yellow brown silty CLAY with patches & partings of yellow brown fine to medium sand. MADE GROUND: firm to stiff locally firm yellow brown locally grey slightly sandy very gravely cobbly CLAY. Clasts include mudstone with occasional brick & clinker becoming increasiingly N=13 (2,6/4,3,3,3) abundant with depth. N≈8 (2,2/2,2,1,3) 101mm WLS N=7 (1,2,1,2,2,2) MADE GROUND: (loose) dark brown / dark grey brown very clayey silty sandy ashy GRAVEL of clinker coke & brick. Firm becoming soft to firm yellow brown light grey N=8 (2,1/2,2,2,2) locally orange brown mottled CLAY. 92mm WLS 100% N=76 (2,3/2,15,26,33) 79mm WLS 70% Weak to moderately weak grey locally light yellow brown variegated thinly laminated fissured MUDSTONE. End of Borehole at 5.45 m Remarks / Well Installation / Casing Details Depth to water strike WLS - Windowless Sampler 5.45m BGL: refusal. Backfilled with arisings. Standing water depth WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** ++44 (0) 1305 774157 Number Mobile: 07970 460 427 (Window Sampling) Web: www.windowsampling.com **WS508** Site: **Drilling Equipment:** Engineer: Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Elevation AOD: Easting: Northing: Start: Finish: Scale: 11/03/2010 11/03/2010 1:50 Capita Symonds **GROUND WATER** Sheet 1 of 1 **SAMPLES & IN SITU TESTING** STRATA RECORD Depth/Type P/P Standard Penetration Sampler / Depth Description (m) (kg/cm2) Testing Recovery (m) MADE GROUND: (loose) dark brown / dark grey brown silty sandy ashy GRAVEL of clinker coke. MADE GROUND: firm locally firm to stiff yellow brown / grey variegated gravely cobbly CLAY. Gravel & cobbles are angular fine medium & coarse weak mudstone. Rare ashy and clinker horizons. N=7 (1,2/2,1,2,2) 101mm WLS N=6 (1,1/2,1,1,2) N=7 (1,1/1,2,2,2) N=8 (1,1,2,1,2,3) 92mm WLS Soft to firm yellow brown light grey mottled CLAY. N=60 (1.3/10.14.15.21) Weak to moderately weak light yellow brown / grey variegated thinly laminated fissured MUDSTONE. Stained orange brown & dark brown on discontinuity surfaces. 6.00 End of Borehole at 6.00 m Remarks / Well Installation / Casing Details WLS - Windowless Sampler 6.00m BGL: refusal. 50mm iD, uPVC, slotted well screen installed to 6.0m BGL. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 Number Mobile: 07970 460 427 (Window Sampling) Web: www.windowsampling.com **WS509** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Elevation AOD: Easting: Northing: Finish: Scale: 12/03/2010 12/03/2010 1:50 Capita Symonds GROUND WATER **SAMPLES & IN SITU TESTING** STRATA RECORD Sheet 1 of 1 Well P/P Standard Penetration Key Description Strike Depth Depth/Type Sampler / Depth (kg/cm2) (m) (m) Testing Recovery MADE GROUND: firm to stiff yellow brown locally grey slightly sandy very gravely cobbly CLAY. Clasts include mudstone with occasional brick & clinker becoming increasiingly abundant with depth. N=6 (1,1/1,1,2,2) 101mm WLS 100% N=7 (1,2/2,2,1,2) 101mm WLS 70% MADE GROUND: (loose) dark brown / dark grey brown silty sandy ashy GRAVEL of clinker coke & brick. N=7 (2,1,0,1,3,3) N=5 (1,1/1,1,1,2) Firm becoming stiff yellow brown light grey mottled CLAY. Weak to moderately weak light yellow brown / grey variegated thinly laminated fissured MUDSTONE. Stained orange brown & dark brown on discontinuity 33/150mm - Abandoned surfaces End of Borehole at 5.65 m Remarks / Well Installation / Casing Details Depth to water strike WLS - Windowless Sampler 5.65m BGL: refusal. Backfilled with arisings. Standing water depth WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** ++44 (0) 1305 774157 07970 460 427 Tel / Fax: Number (Window Sampling) Mobile: Web: www.windowsampling.com **WS510** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor 130 Client: Elevation AOD: Easting: Northing: Start: Finish: Scale: 10/03/2010 1:50 10/03/2010 Capita Symonds **GROUND WATER** Sheet 1 of 1 SAMPLES & IN SITU TESTING STRATA RECORD Well P/P Standard Penetration Key Description Strike Depth Depth/Type Sampler / (kg/cm2) (m) (m) Testing Recovery MADE GROUND: (loose) dark brown / dark grey / yellow brown variegated silty gravely cobbly bouldery SAND. Clasts include brick occasional clinker & coke. MADE GROUND: (loose) dark brown / dark grey brown silty sandy ashy GRAVEL of clinker coke. N=32 (6,6/7,8,9,8) Very stiff to hard grey with brown variegation & stained orange brown on discontinuity surfaces becoming homogenous grey poorly development thinly laminated fabric CLAY. N=51 (3,7/11,11,13,16) 101mm WLS Stiff light brown yellow (buff) friable poorly developed thinly laminated fabric SILT / CLAY. N=38 (3,5/8,9,10,11) × Very weak to weak blue grey thinly laminated MUDSTONE. Stained orange brown on discontinuity surfaces towards top. 49/150mm - Abandoned 79mm WLS 100% End of Borehole at 4.15 m 6

Remarks / Well Installation / Casing Details

4.15m BGL: refusal. Backfilled with arisings.



WLS - Windowless Sampler

WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 Number (Window Sampling) 07970 460 427 Mobile: Web: www.windowsampling.com WS511 Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Scale: Client: Elevation AOD: Easting: Northing: Start: Finish: 10/03/2010 10/03/2010 1:50 Capita Symonds Sheet 1 of 1 **GROUND WATER SAMPLES & IN SITU TESTING** STRATA RECORD Depth/Type Key P/P Standard Penetration Description Strike Depth Sampler / Depth (kg/cm2) (m) (m) Testing Recovery CONCRETE MADE GROUND / FILL: (dense) light grey silty sandy angular GRAVEL of limestone. MADE GROUND: firm to stiff yellow brown / grey variegated slightly sandy gravely CLAY. Gravel is mudstone & brick. N=74 (10,15/16,17,18,23) Very stiff to hard light brown yellow (buff) locally orange brown & grey variegated thinly laminated & fissured CLAY. Very weak to weak light yellow brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity surfaces. N=101 (15,19/16,21,30,34)01mm WLS 2.00 End of Borehole at 2.45 m Remarks / Well Installation / Casing Details 2.45m BGL: refusal. 50mm ID, uPVC, slotted well screen installed to 2.0m BGL. WLS - Windowless Sampler WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 Number Mobile: 07970 460 427 (Window Sampling) Web: www.windowsampling.com WS512B Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart **Elevation AOD:** Easting: Northing: Finish: Scale: Start: 11/03/2010 11/03/2010 1:50 Capita Symonds **GROUND WATER SAMPLES & IN SITU TESTING** STRATA RECORD Sheet 1 of 1 Strike Well Depth Depth/Type P/P Standard Penetration Key Description (m) (kg/cm2) Testing (m) MADE GROUND: stiff yellow brown / grey variegated slightly sandy gravely CLAY. Gravel is mudstone & 0 10 MADE GROUND: (loose) orange brown fine to medium MADE GROUND: stiff yellow brown occasionally grey N=2 (1,0/1,0,1,0) 101mm WLS variegated slightly sandy locally sandy gravely CLAY. Gravel is mudstone & brick. Wood fragments at base. N=3 (2,0/1,0,1,1) 101mm WLS Very weak to weak light yellow brown thinly laminated fissured MUDSTONE. Stained orange brown on discontinuity surfaces. N=45 (4,7,7,8,11,19) End of Borehole at 3.45 m 6

Remarks / Well Installation / Casing Details

3.45m BGL: refusal. Backfilled with arisings.



WLS - Windowless Sampler WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 Number Mobile: 07970 460 427 (Window Sampling) Web: www.windowsampling.com WS512A Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Client: Elevation AOD: Easting: Northing: Finish: Scale: Start: 12/03/2010 12/03/2010 1:50 Capita Symonds **GROUND WATER** Sheet 1 of 1 SAMPLES & IN SITU TESTING STRATA RECORD Strike Depth/Type P/P Standard Penetration Sampler / Depth Description (m) (m) (kg/cm2) Recovery (m) MADE GROUND: stiff yellow brown / grey variegated slightly sandy gravely CLAY. Gravel is mudstone & 0.20 MADE GROUND: (loose) orange brown fine to medium SAND. 101mm WLS 100% MADE GROUND: stiff yellow brown / grey variegated slightly sandy gravely CLAY. Gravel is mudstone & MADE GROUND: brick FIILL End of Borehole at 0.80 m 3 6 Remarks / Well Installation / Casing Details WLS - Windowless Sampler 0.80m BGL; refusal, Backfilled with arisings. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD** Borehole ++44 (0) 1305 774157 07970 460 427 Tel / Fax: (Window Sampling) Number Mobile: Web: www.windowsampling.com **WS513** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Client: Finish: Scale: Elevation AOD: Northing: Start: Easting: 11/03/2010 11/03/2010 1:50 Capita Symonds **GROUND WATER** SAMPLES & IN SITU TESTING STRATA RECORD Sheet 1 of 1 Description Well Depth Depth/Type P/P Standard Penetration Sampler / Depth Key (m) (m) (kg/cm2) Testing Recovery (m) MADE GROUND: firm to stiff grey brown brown / grey variegated very gravely CLAY. Gravel is angular fine medium & coarse brick and clinker. Very stiff light brown yellow (buff) friable poorly developed thinly laminated fabric fissured SILT / CLAY. N=15 (1,1/2,4,4,5) Very weak to weak light yellow brown locally brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity N=29 (2,3/5,5,9,10) surfaces. 01mm WLS N=41 (6,9/10,10,10,11) N=39 (5.6/9.8.11.11) N=42 (4,6/8,10,10,14) End of Borehole at 5.45 m Remarks / Well Installation / Casing Details WLS - Windowless Sampler 5.45m BGL: refusal. Backfilled with arisings.

WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD** Borehole Tel / Fax: ++44 (0) 1305 774157 Number (Window Sampling) 07970 460 427 Mobile: www.windowsampling.com Web: **WS514 Drilling Equipment:** Site: Engineer: Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd **Competitor Dart** Finish: Scale: Client: Elevation AOD: Easting: Northing: Start: 11/03/2010 1:50 11/03/2010 Capita Symonds **GROUND WATER** STRATA RECORD Sheet 1 of 1 SAMPLES & IN SITU TESTING Depth Depth/Type Standard Penetration Description Strike Well Kev Sampler / Depth (kg/cm2) (m) (m) Testing Recovery (m) CONCRETE 150mm core MADE GROUND / FILL: (dense) light grey / light red brown silty sandy angular GRAVEL of limestone. Very weak to weak light yellow brown locally brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity N=35 (6,7/8,8,9,10) N=39 (6,8/8,10,9,12) 101mm WLS 3.00 38 (10,11/-,-38 for 150mm End of Borehole at 3.30 m 5 8 Remarks / Well Installation / Casing Details WLS - Windowless Sampler 3.30m BGL: refusal. 50mm ID, uPVC, slotted well screen installed to 3.0m BGL. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** ++44 (0) 1305 774157 07970 460 427 (Window Sampling) Number Mobile: Web: www.windowsampling.com WS515 Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Client: Northing: Start: Finish: Scale: Elevation AOD: Easting: 11/03/2010 11/03/2010 1:50 Capita Symonds Sheet 1 of 1 **GROUND WATER** SAMPLES & IN SITU TESTING STRATA RECORD Depth/Type Key Description Sampler / Depth (kg/cm2) (m) (m) Testing Recovery CONCRETE MADE GROUND / FILL: (dense) light grey / light red brown silty sandy angular GRAVEL of limestone. Very weak to weak light yellow brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity surfaces. N=24 (5,5/6,5,6,7) N=46 (7,9/9,10,11,16) N=53 (6,8/10,12,13,18) End of Borehole at 3.45 m Remarks / Well Installation / Casing Details WLS - Windowless Sampler 3.45m BGL: refusal. Backfilled with arisings. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 Number (Window Sampling) Mobile: 07970 460 427 Web: www.windowsampling.com **WS516** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham Competitor 130 T & P Regeneration Ltd Client: Elevation AOD: Easting: Northing: Start: Finish: Scale: 10/03/2010 10/03/2010 1:50 Capita Symonds **GROUND WATER** Sheet 1 of 1 **SAMPLES & IN SITU TESTING** STRATA RECORD Standard Penetration Description Strike Depth Depth/Type P/P Key Sampler / Depth (kg/cm2) (m) (m) Testing Recovery CONCRETE XXXXX 819 MADE GROUND: brick FIILL Stiff to very stiff light brown yellow (buff) locally orange brown & grey variegated poorly developed thinly laminated fabric CLAY. N=26 (0,3/4,5,8,9) Very stiff to hard light brown yellow (buff) locally orange brown & grey variegated thinly laminated & fissured CLAY. Very stiff light brown yellow (buff) friable poorly developed thinly laminated fabric SILT / CLAY. N=52 (6,8/11,13,13,15) 101mm WLS Very stiff to hard light brown yellow (buff) locally orange brown & grey variegated thinly laminated & fissured CLAY. Very weak to weak light yellow brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity surfaces. N=93 (18,23/22,20,22,29) | 92mm WLS End of Borehole at 3.45 m Remarks / Well Installation / Casing Details WLS - Windowless Sampler 3.45m BGL: refusal. 50mm ID, uPVC, slotted well screen installed to 3.0m BGL. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** ++44 (0) 1305 774157 07970 460 427 Tel / Fax: Number Mobile: (Window Sampling) Web: www.windowsampling.com **WS517** Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor Dart Client: Elevation AOD: Easting: Northing: Finish: 10/03/2010 10/03/2010 1:50 Capita Symonds **GROUND WATER SAMPLES & IN SITU TESTING** Sheet 1 of 1 STRATA RECORD Key Strike Well Depth Depth/Type P/P Standard Penetration Sampler / Depth Description (kg/cm2) (m) (m) Testing Recovery MADE GROUND / FILL: (dense) light grey / light red brown silty sandy angular GRAVEL of limestone. MADE GROUND: firm yellow brown / grey variegated slightly sandy gravely CLAY. Gravel is mudstone & occasional brick. N=5 (3,2/2,1,1,1) MADE GROUND: (loose) dark brown / dark grey brown silty sandy ashy GRAVEL of clinker coke. Occasional brick gravel & cobbles. N=8 (0,0/2,0,2,4) 32mm WLS Stiff light brown yellow (buff) friable poorly developed thinly laminated fabric SILT / CLAY. 2.50 х N=22 (4,4/5,4,6,7) Very weak to weak light yellow brown thinly laminated extremely closely fissured MUDSTONE. Stained orange brown on discontinuity surfaces. N=61 (7,9/11,12,16,22) End of Borehole at 4.45 m 5 Remarks / Well Installation / Casing Details Depth to water strike WLS - Windowless Sampler 4.45m BGL: refusal. 50mm ID, uPVC, slotted well screen installed to 2.5m BGL. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** Tel / Fax: ++44 (0) 1305 774157 Number (Window Sampling) Mobile: 07970 460 427 Web: www.windowsampling.com **WS518** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor 130 Client: Elevation AOD: Easting: Northing: Start: Finish: Scale: 11/03/2010 11/03/2010 1:50 Capita Symonds **GROUND WATER** Sheet 1 of 1 SAMPLES & IN SITU TESTING STRATA RECORD Standard Penetration Description Strike Depth Depth/Type Sampler / Depth Key (kg/cm2) (m) (m) Testing Recovery MADE GROUND: firm to stiff grey brown brown / grey variegated gravely CLAY. Gravel is angular fine medium & coarse weak mudstone ash brick and clinker. Plastic at base. MADE GROUND: firm to stiff yellow brown / grey N=9 (2.3/2,2,2,3) variegated slightly sandy gravely CLAY. Gravel is mudstone & brick. N=4 (1,1/1,1,1,1) 101mm WLS 100% Very stiff grey thinly laminated extremely closely fissured CLAY. Stained brown on discontinuity surfaces at top. Grades to mudstone at base. N=51 (5,8/10,12,13,16) Weak to moderately weak light grey locally brown stained thinly laminated fissured MUDSTONE. 33/75mm - Abandoned End of Borehole at 4.23 m Remarks / Well Installation / Casing Details WLS - Windowless Sampler 4.225m BGL: refusal. Backfilled with arisings. WS - Window sampler

ADVANCED INVESTIGATION SYSTEMS LLP **BOREHOLE RECORD Borehole** ++44 (0) 1305 774157 07970 460 427 Tel / Fax: Number Mobile: (Window Sampling) www.windowsampling.com Web: **WS519** Site: Engineer: **Drilling Equipment:** Brookhurst Wood, Wealdland Brickworks, Horsham T & P Regeneration Ltd Competitor 130 Client: Northing: Start: Finish: Scale: Elevation AOD: Easting: 10/03/2010 10/03/2010 1:50 Capita Symonds **GROUND WATER** Sheet 1 of 1 **SAMPLES & IN SITU TESTING** STRATA RECORD Strike Well Depth Depth/Type P/P Standard Penetration Sampler / Depth Key Description (m) (m) (kg/cm2) Testing Recovery CONCRETE MADE GROUND: coarse brick & clinker FIILL N=6 (2,1/1,2,1,2) MADE GROUND: (loose) dark brown / dark grey brown clayey silty sandy ashy GRAVEL of clinker coke & brick. MADE GROUND: firm locally firm to stiff yellow brown / light grey variegated gravely CLAY. Gravel is angular fine medium & coarse weak mudstone. N=4 (0,1/1,1,1,1) 101mm WLS Rare disseminated brick and clinker. N=5 (0,1/1,1,1,2) 92mm WLS 80% N=5 (1,1/2,1,1,1) N=11 (2,2/2,3,3,3) 70mm WLS 70% Firm to stiff light grey & brown mottled silty CLAY. Locally thinly laminated and slightly gravely at base with weak mudstone. 70mm WLS End of Borehole at 6.00 m

Remarks / Well Installation / Casing Details

6.00m BGL: refusal. Backfilled with arisings.



WLS - Windowless Sampler WS - Window sampler





Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone (01424) 718618 Facsimile (01424) 729911

THE ENVIRONMENTAL LABORATORY LTD

F.A.O. Mike Nicholas T & P Regeneration Limited Number One, Dean Street Bedminster, Bristol BS3 1BG Reporting Date: 09/04/2010

ANALYTICAL REPORT No. AR25914

Samples Received By:-

Courier

Samples Received:-

19/03/10

Your Job No:

HOR462

Site Location:

Horsham (Brickworks)

No Samples Received:-

30

Date of Sampling

12/03/10

Report Checked By:-

Steve Knight

Director

Authorised By:-

Cliff P.V. Knight BSc, EurChem, CChem FRSC

Managing Director

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



ELAB

nit A2, Windmill Road, Ponsuscod Industrial Estata, St. Leonards On Sea, East Susses, 1938 999 Tel: 06424 718618 Fax: 01424 720011 ANALYTICAL REPORT No. AR25914

Location: Horsham (Brickworks)

Reporting Date: 09/04/10

HOR462

Your Job No:

F.A.O. Mike Nicheles T & P Regeneration Limited Number One, Been Street Bedminster, Bristel 853 1BG

| | Characteristic | Loamy Sand Sa | indy Silt Loam | Clay | Clay | Clay | Silt Clay Loam | Clay | Clay Loam | Loamy Sand | Clay Loam |
|----------------------------|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|
| Solis | Date Sampled TP/BH | 12/03/10 WS501 | 12/03/10 WS505 | 12/03/10 WS506 | 12/03/10 WS506 | 12/03/10 WS507 | 12/03/10 W S507 | 12/03/10 WS508 | 12/03/10 WS509 | 12/03/10 WS509 | 11/03/10 WS512 |
| | Depth (m) | 0.80 | 0.90 | 1.00 - 2.00 | 4.50 | 0.30 | 3.30 | 0.60 | 0.50 | 3.50 | 0.80 |
| | Our ref | 52730 | 52736 | 52738 | 52739 | 52740 | 52741 | 52742 | 52744 | 52745 | 52749 |
| Arsenic** | (mg/kg) | 67.1 | 19.8 | 24.9 | 36.9 | 18.8 | 30.7 | 16.4 | 21.4 | 35.4 | 16.7 |
| Cadmium** | (mg/kg) | <0.5 | <0.5 | <0.5 | 0.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium** | (mg/kg) | 31 | 22 | 71 | 20 | 68 | 31 | 51 | 51 | 395 | 39 |
| Lead** | (mg/kg) | 33 | 47 | 44 | 34 | 37 | 35 | 17 | 38 | 28 | 33 |
| Mercury** | (mg/kg) | 1.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Nickel** | (mg/kg) | 71 | 28 | 53 | 24 | 44 | 38 | 50 | 47 | 3554 | 66 |
| Copper** | (mg/kg) | 71 | 32 | 48 | 17 | 37 | 65 | 37 | 48 | 116 | 32 |
| Zinc** | (mg/kg) | 73 | 160 | 246 | 42 | 123 | 70 | 232 | 114 | 98 | 82 |
| Selenium** | (mg/kg) | 3.4 | <0.5 | 0.9 | 0.7 | <0.5 | 0.6 | <0.5 | <0.5 | 1.0 | 8.0 |
| Hexavalent Chromium | (mg/kg) | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Water Soluble Boron | (mg/kg) | 2.0 | 2.0 | 2.0 | 0.9 | 1.3 | 2.3 | 0.8 | 1.5 | 2.5 | 1.1 |
| pH Value** | (Units) | 7.3 | 7,1 | 7.4 | 7.2 | 7.8 | 7.5 | 7.8 | 7.4 | 7.7 | 7.9 |
| Water Soluble Sulphate | (mg/l as SO ₄) | 85 | 930 | 218 | 77 | 60 | 187 | 21 | 507 | 751 | 368 |
| Total Cyanide** | (mg/kg) | <1 | <1 | <1 | <1 | <1 | 6.3 | 1.1 | 125.4 | 21.8 | 1.2 |
| Free Cyanide | (mg/kg) | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Sulphide | (mg/kg) | <2 | 15.4 | 8.8 | 54.4 | 7.2 | 10.0 | 3.8 | <2 | <2 | 7.0 |
| Elemental Sulphur** | (mg/kg) | <10 | <10 | <10 | 37 | 11 | <10 | <10 | 20 | 25 | <10 |
| Total Monohydric Phenols** | (mg/kg) | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Soil Organic Matter* | (%) | 4.6 | 0.9 | 0.7 | 0.6 | 0.5 | 2.5 | 0.4 | 0.4 | 2.7 | 0.3 |

All results expressed on dry weight basis

.w.

^{** -} MCERTS accredited test

^{* =} UKAS accredited test



Tek: 01424 718618 Fax: 01424 729011 ANALYTICAL REPORT No. AR25914

Location: Horsham (Brickworks)

ELAB

HOR462 Your Job No:

Reporting Date: 09/04/10

F.A.G. Mike Nisholas T& P Regeneration Limited Number One, Dean Street Bedmineter, Bristel **853 18**G

| | Characteristic | Sand | Clay | Sift Clay Loam S | Sandy Silt Loam | Sandy Clay | Clay Loam |
|----------------------------|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Soils. | Date Sampled TP/BH | 11/03/10 WS514 | 11/03/10 WS515 | 10/03/10 WS517 | 10/03/10 WS517 | 11/03/10 WS518 | 11/03/10 WS519 |
| | Depth (m) | 0.30 | 0.20 | 0.90 | 1.50 | 0.50 | 1.90 |
| | Our ref | 52752 | 52753 | 52755 | 52756 | 52757 | 52759 |
| Arsenic** | (mg/kg) | <5 | 8.8 | 132.4 | 63.7 | 24.0 | 23.2 |
| Cadmium** | (mg/kg) | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 | 0.6 |
| Chromium** | (mg/kg) | 6 | 22 | 65 | 33 | 32 | 34 |
| Lead** | (mg/kg) | 9 | 13 | 53 | 46 | 147 | 164 |
| Mercury** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Nickel** | (mg/kg) | 4 | 13 | 84 | 67 | 38 | 40 |
| Copper** | (mg/kg) | 2 | 9 | 43 | 83 | 67 | 73 |
| Zinc** | (mg/kg) | 25 | 179 | 214 | 148 | 178 | 197 |
| Selenium** | (mg/kg) | <0.5 | <0.5 | 3.6 | 1.7 | 0.7 | 0.6 |
| Hexavalent Chromium | (mg/kg) | <2 | <2 | <2 | <2 | <2 | <2 |
| Water Soluble Boron | (mg/kg) | 0.8 | 0.9 | 3.3 | 3.6 | 3.7 | 2.8 |
| pH Value** | (Units) | 9.4 | 8.3 | 7.7 | 8.0 | 7.5 | 8.0 |
| Water Soluble Sulphate | (mg/l as SO ₄) | 323 | 77 | 64 | 116 | <10 | 484 |
| Total Cyanide ** | (mg/kg) | <1 | <1 | <1 | <1 | 5.8 | <1 |
| Free Cyanide | (mg/kg) | <1 | <1 | <1 | <1 | <1 | <1 |
| Sulphide | (mg/kg) | <2 | 3.3 | 34.5 | 178.9 | 19.5 | <2 |
| Elemental Sulphur** | (mg/kg) | <10 | <10 | <10 | 29 | <10 | <10 |
| Total Monohydric Phenols** | (mg/kg) | <1 | <1 | <1 | <1 | <1 | <1 |
| Soil Organic Matter* | (%) | 0.2 | 0.3 | 1.3 | 2.4 | 2.1 | 0.6 |

All results expressed on dry weight basis

^{** -} MCERTS accredited test

^{* -} UKAS accredited test



ELAB

init A2, Windmill Reed, Pensused Industrial Estata, St. Leanards On Son, East Sussex, 1938 889 Tek 81424 718638 Fest: 83424 728631 ANALYTICAL REPORT No. AR25914

Location: Horsham (Brickworks) Your Job No:

Reporting Date: 09/04/10

HOR462

F.A.O. Mike Nicheles Y & P Regeneration Limited Number One, Dean Street Bedminster, Bristel BS3 1BG

| A.W. | Characteristic | Loamy Sand Sa | andy Silt Loam | Clay | Clay | Clay | Silt Clay Loam | Clay | Clay Loam | Loamy Sand | Clay Loam |
|------------------------|----------------|---------------|----------------|-------------|----------|----------|----------------|----------|-----------|------------|-----------|
| Sois. | Date Sampled | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 11/03/10 |
| | TP/BH | W\$501 | WS505 | WS506 | WS506 | W\$507 | W\$507 | WS508 | WS509 | W\$509 | W\$512 |
| | Depth (m) | 0.80 | 0.90 | 1.00 - 2.00 | 4.50 | 0.30 | 3.30 | 0.60 | 0.50 | 3.50 | 0.80 |
| | Our ref | 52730 | 52736 | 52738 | 52739 | 52740 | 52741 | 52742 | 52744 | 52745 | 52749 |
| Naphthalene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthylene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluorene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Phenanthrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Anthracene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluoranthene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | <0.5 | <0.5 |
| Pyrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | <0.5 | <0.5 |
| Benz(a)anthracene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <0.5 | <0.5 |
| Chrysene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 |
| Benzo(b)fluoranthene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.4 | <0.5 | <0.5 |
| Benzo(k)fluoranthene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.7 | <0.5 | <0.5 |
| Benzo(a)pyrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 |
| Indeno(123-cd)pyrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <0.5 | <0.5 |
| Dibenz(ah)anthracene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(ghi)perylene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <0.5 | <0.5 |
| Total PAH** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 8.1 | <0.5 | <0.5 |

All results expressed on dry weight basis

** - MCERTS accredited test

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Unit A2, Windmill Road, Panaused Industrial Estate, St. Leonards On See, East Sussex, TH38 98Y Tel: 01424 718618 Fax: 01424 729011

ANALYTICAL REPORT No. AR25914

Location: Hørsham (Brickworks)

ELAB

Your Job No: HOR462

Reporting Date: 09/04/10

F.A.O. Milke Nicheles 7 & P Regeneration Limited Number One, Dean Street Bedminster, Bristol 853 1BG

| | Characteristic | Sand | Clay | Silt Clay Loam S | andy Silt Loam | Sandy Clay | Clay Loam |
|------------------------|----------------|----------|----------|------------------|----------------|------------|-----------|
| Solls. | | | - | - | • | | |
| | Date Sampled | 11/03/10 | 11/03/10 | 10/03/10 | 10/03/10 | 11/03/10 | 11/03/10 |
| | TP/BH | WS514 | W\$515 | W\$517 | W\$517 | W\$518 | W\$519 |
| | Depth (m) | 0.30 | 0.20 | 0.90 | 1.50 | 0.50 | 1.90 |
| | Our ref | 52752 | 52753 | 52755 | 52756 | 52757 | 52759 |
| Naphthalene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthylene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluorene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Phenanthrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Anthracene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluoranthene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Pyrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benz(a)anthracene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chrysene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(b)fluoranthene** | (mg/kg) | <0.5 | <0.5 | 0.9 | <0.5 | <0.5 | <0.5 |
| Benzo(k)fluoranthene** | (mg/kg) | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Indeno(123-cd)pyrene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dibenz(ah)anthracene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(ghi)perylene** | (mg/kg) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Total PAH** | (mg/kg) | <0.5 | <0.5 | 1.5 | <0.5 | <0.5 | <0.5 |

All results expressed on dry weight basis

** - MCERTS accredited test

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ELAB

hit A2, Windrell Read, Panesead Industrial Estato, St. Leanards On Sea, East Susses, TRISS 987
Tel: 91424 718618 Fest: 91424 728911
ANALYTICAL REPORT No. AR25914

Location: Horsham (Brickworks) Your Job No:

Reporting Date: 09/04/10

HOR462

F.A.O. Milke Nicholes T & P Regeneration Limited Number One, Dean Street Bedminster, Bristol 853 18G

TPH CWG - SAIL

| | Characteristic | Loamy Sand | Loamy Sand | Sandy Clay | Clay | Clay | Clay | Sandy Silt Loam | Sandy Clay Loam | Clay | Clay |
|---|----------------|------------|------------|------------|------------|------------|------------|-----------------|--------------------|-------------|----------|
| | Date Sampled | 12/03/10 | 12/03/2010 | 12/03/2010 | 12/03/2010 | 12/03/2010 | 12/03/2010 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 |
| | TP/BH | WS501 | WS501 | WS501 | W\$502 | WS503 | WS504 | WS505 | W\$505 | WS506 | W\$506 |
| | Depth (m) | 0.80 | 1.50 | 3.50 | 0.70 | 0.10 | 0.50 | 0.90 | 3.40 | 1.00 - 2.00 | 4.50 |
| A 41 - | Our ref | 52730 | 52731 | 52732 | 52733 | 52734 | 52735 | 52736 | 52737 | 52738 | 52739 |
| Ammatic. | | | | | | | | | | | |
| >EC ₅ -EC ₇ | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC7-EC8 | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC ₈ -EC ₁₀ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| >EC ₁₀ -EC ₁₂ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| >EC ₁₂ -EC ₁₆ | (mg/kg) | <0.1 | <0.1 | 1.8 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| >EC ₁₆ -EC ₂₁ | (mg/kg) | <0.1 | 0.9 | 13.8 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 |
| >EC ₂₁ -EC ₃₅ | (mg/kg) | 2.3 | 2.5 | 35.4 | 1.0 | 0.1 | 0.3 | 0.7 | <0.1 | 1.8 | <0.1 |
| Allahatis. | | | | | | | | | | | |
| >EC ₅ -EC ₆ | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC ₆ -EC ₈ | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC ₈ -EC ₁₀ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| >EC ₁₀ -EC ₁₂ | (mg/kg) | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| >EC ₁₂ -EC ₁₆ | (mg/kg) | <0.1 | <0.1 | 16.3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| >EC ₁₆ -EC ₂₁ | (mg/kg) | 0.5 | 6.4 | 35.0 | <0.1 | <0.1 | <0.1 | 0.5 | <0.1 | <0.1 | <0.1 |
| >EC ₂₁ -EC ₃₅ | (mg/kg) | <0.1 | 4.8 | 66.1 | 1.8 | <0.1 | 0.1 | <0.1 | <0.1 | 2.0 | <0.1 |
| TPH (C ₆ - C ₄₀) | (mg/kg) | 2.7 | 14.5 | 168.5 | 2.8 | 0.1 | 0.4 | 1.3 | <0.1 | 3.8 | <0.1 |

All results expressed on dry weight basis

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uit A2, Windmill Road, Ponousood Industrial Estata, St. Leonards On Sea, East Sunest, 71(38 98Y Tel: 91424 718618 Fait: 91424 729911 ANALYTICAL REPORT No. AR25914

Lecation: Horsham (Brickworks)

Your Job No: HOR462

Reporting Date: 09/04/10

F.A.O. Mike Nicholas T & P Regeneration Limited Number One, Dean Street Bedminster, Bristel 853 186

TPH CMG - Soil

| | Characteristic | Clay | Silt Clay Loam | Clay | Clay Loam | Clay Loam | Loamy Sand S | andy Silt Loam | Silt Clay Loam | Sandy Clay | Clay Loam |
|---|----------------|----------|----------------|----------|-----------|-----------|--------------|----------------|----------------|------------|-----------|
| | Date Sampled | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 12/03/10 | 10/03/10 | 10/03/10 | 10/03/10 | 11/03/10 |
| | TP/BH | WS507 | WS507 | WS508 | WS508 | WS509 | WS509 | WS510 | WS510 | WS511 | W\$512 |
| | Depth (m) | 0.30 | 3.30 | 0.60 | 1.60 | 0.50 | 3.50 | 0.10 | 0.70 | 0.30 | 0.80 |
| | Our ref | 52740 | 52741 | 52742 | 52743 | 52744 | 52745 | 52746 | 52747 | 52748 | 52749 |
| <u>Anomatic</u> | | | | | | | | | | | |
| >EC ₅ -EC ₇ | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC7-EC8 | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC ₈ -EC ₁₀ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | 0.8 | <0.1 | <0.1 | 4.6 | <0.1 | <0.1 |
| >EC ₁₀ -EC ₁₂ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | 3.3 | <0.1 | <0.1 |
| >EC ₁₂ -EC ₁₆ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 5.6 | <0.1 | <0.1 |
| >EC ₁₆ -EC ₂₁ | (mg/kg) | <0.1 | 5.4 | <0.1 | <0.1 | 1.5 | <0.1 | 0.4 | 14.7 | <0.1 | <0.1 |
| >EC ₂₁ -EC ₃₅ | (mg/kg) | 1.7 | 89.7 | 1.8 | 0.5 | 12.3 | 0.4 | 3.2 | 230.8 | 1.8 | 0.4 |
| Aliphatic. | | | | | | | | | | | |
| >EC ₅ -EC ₆ | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC ₆ -EC ₈ | (mg/kg) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| >EC ₈ -EC ₁₀ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 3.2 | <0.1 | <0.1 |
| >EC ₁₀ -EC ₁₂ | (mg/kg) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 |
| >EC ₁₂ -EC ₁₆ | (mg/kg) | <0.1 | 0.7 | <0.1 | <0.1 | 0.5 | <0.1 | 0.2 | 0,2 | <0.1 | <0.1 |
| >EC ₁₆ -EC ₂₁ | (mg/kg) | <0.1 | 20.7 | <0.1 | <0.1 | 2.3 | <0.1 | 2.7 | 47.1 | <0.1 | <0.1 |
| >EC ₂₁ -EC ₃₅ | (mg/kg) | 5.1 | 132.3 | 1.9 | <0.1 | 10.9 | <0.1 | 6.5 | 686.1 | 5.8 | <0.1 |
| TPH (C ₆ - C ₄₀) | (mg/kg) | 6.8 | 248.9 | 3.7 | 0.5 | 28.5 | 0.4 | 12.9 | 995.8 | 7.6 | 0.4 |

All results expressed on dry weight basis

JW.



ELAB

ndi Rood, Penguesad Industrial Estatu, St. Learnysis Cin Bas, Esst St. Tel: 01424 718618 Fest 01424 728011 ANALYTICAL REPORT No. AR25914

Location: Horsham (Brickworks)

F.A.O. Milke Nicholes Number One, Deen Street Bedminster, Bristol 863 1BG

HOR462 Your Job No:

Reporting Date: 09/04/10

Asbestos Identification

52730 Loamy Sand

0.90

Clay

0.50 52744 Clay Loam

Analytical result only applies to the sample as submitted by the client

Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only
which must be verified by the client





Unit A4, Windmill Read, Penersed Industrial Estate, St. Learneris din San, East Sussen, 19138 8897
Tel: 01424 718618 Fast 01424 729811

ANALYTICAL REPORT No. AR25914

Location: Horsham (Brickworks)

F.A.O. Mike Nicholes T & P Regeneration Limited Number One, Dean Street Bedminster, Bristol 853 19G

Your Job No: HOR462

Reporting Date: 09/04/10

Asbestos Identification

 Sample ref:
 W8512

 Depth (m)
 0.800

 Our ref:
 52749

 #Description of Sample Matrix:
 Clay Loam

 Result
 No asbestos identified

 Sample rof:
 W8517

 Depth (m)
 0.90

 Our rof:
 5750

 #Bosoription of Sample Matrix:
 Sit Clay Loam

 Result
 No asbestos identified

Semple ref: WS518
Depth (m) 0.50
Our ref: 52757
#Bleasription of Sample Matrix: Sandy Clay
Result No asbestos identified
No asbestos identified

 Sample ref:
 WSS19

 Depth (m)
 1.00

 Our ref:
 52758

 (Pleasifytien of Sample Matrix:
 Clay Loam

 Result
 No asbestos identified

 No asbestos identified
 No asbestos identified

^{*=} UKAS accredited

Analytical result only applies to the sample as submitted by the client

Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client





Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone (01424) 718618 Facsimile (01424) 729911

THE ENVIRONMENTAL LABORATORY LTD

SAMPLE RECEIPT AND TEST DATES

Our Analytical Report Number AR25914
Your Job No: HOR462
Sample Receipt Date: 19/03/10
Reporting Date: 09/04/10
Registered: 19/03/10

Prepared: 20/03/10 Analysis complete: 09/04/10

TEST METHOD SUMMARY

| PARAMETER | Analysis Undertaken on | Date Tested | Method Number | Technique |
|----------------------------|---------------------------|-------------|------------------|--------------------|
| Arsenic** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Cadmium** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Chromium** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Lead** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Mercury** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Nickel** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Copper** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Zinc** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Selenium** | Air dried sample | 31/03/10 | 118 | ICPMS |
| Hexavalent Chromium | As submitted sample | 29/03/10 | 110 | Colorimetry |
| Water Soluble Boron | Air dried sample | 31/03/10 | 202 | Colorimetry |
| pH Value** | Air dried sample | 31/03/10 | 113 | Probe |
| Water Soluble Sulphate | Air dried sample | 30/03/10 | 209 | Colorimetry |
| Total Cyanide** | As submitted sample | 31/03/10 | 204 | Colorimetry |
| Free Cyanide | As submitted sample | 31/03/10 | 107 | Colorimetry |
| Sulphide | As submitted sample | 01/04/10 | 109 | Colorimetry |
| Elemental Sulphur** | Air dried sample | 30/03/10 | 122 | HPLC |
| Total Monohydric Phenols** | As submitted sample | 30/03/10 | 121 | HPLC |
| Soil Organic Matter* | Air dried sample | 31/03/10 | 111 | Titration |
| Speciated PAH** | As submitted sample | 31/03/10 | 133 | Gas Chromatography |
| Carbon Banding (TPH) | As submitted sample | 26/03/10 | 117 | Gas chromatography |
| Asbestos* | As submitted sample | 05/04/10 | 179 | see note |

Asbestos analysis qualitative only

Note:- Documented In-house procedure based on HSG 248 2005

- * = UKAS Accredited test
- ** MCERTS Accredited test

Determinands not marked with * or ** are non accredited

MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)





Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone (01424) 718618 Facsimile (01424) 729911

THE ENVIRONMENTAL LABORATORY LTD

F.A.O. Mike Nicholas T & P Regeneration Limited Number One, Dean Street Bedminster, Bristol BS3 1BG Reporting Date: 09/04/2010

ANALYTICAL REPORT No. AR25994

Samples Received By:-

Courier

Samples Received:-

24/03/10

Your Job No:

HOR462

Site Location:

Horsham (Brickworks)

No Samples Received:-

4

Date of Sampling

22/03/10

Report Checked By:-

Steve Knight Director Authorised By:-

Cliff P.V. Knight BSc, EurChem, CChem FRSC

Managing Director

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



F.A.O. Mike Nicheles T & P Regeneration Limited Number One, Dean Street Bedminster, Bristel B\$3 1BG

THE ENVIRONMENTAL LABORATORY LTD

Tel: 01424 718618 Fax: 01424 720011

ANALYTICAL REPORT No. AR25994

Location: Horsham (Brickworks)

ELAB

HOR462 Your Job No:

Reporting Date: 09/04/10

| Soils. | Characteristic | Silt Loam | Silt Loam |
|----------------------------|------------------|-----------|-----------|
| | Date Sampled | 22/03/10 | 22/03/10 |
| | Sample Reference | 601 Sift | 604 Silt |
| | Our ref | 53223 | 53224 |
| Arsenic** | (mg/kg) | 18.1 | 14.8 |
| Cadmium** | (mg/kg) | <0.5 | <0.5 |
| Chromium** | (mg/kg) | 72 | 64 |
| Lead** | (mg/kg) | 32 | 32 |
| Mercury** | (mg/kg) | <0.5 | <0.5 |
| Nickel** | (mg/kg) | 50 | 44 |
| Copper** | (mg/kg) | 33 | 34 |
| Zinc** | (mg/kg) | 103 | 103 |
| Selenium | (mg/kg) | <0.5 | <0.5 |
| Hexavalent Chromium | (mg/kg) | <2 | <2 |
| Water Soluble Boron | (mg/kg) | 1.1 | 1.3 |
| pH Value** | (Units) | 8.3 | 8.2 |
| Water Soluble Sulphate | $(mg/l as SO_4)$ | <10 | <10 |
| Total Cyanide** | (mg/kg) | <1 | <1 |
| Free Cyanide | (mg/kg) | <1 | <1 |
| Sulphide | (mg/kg) | <2 | <2 |
| Elemental Sulphur** | (mg/kg) | 109 | 336 |
| Total Monohydric Phenols** | (mg/kg) | <1 | <1 |
| Soil Organic Matter* | (%) | 0.8 | 0.6 |
| | | | |

All results expressed on dry weight basis

^{** -} MCERTS accredited test

^{* =} UKAS accredited test



F.A.O. Milke Nichalas T & P Regeneration Limited Number One, Dean Street Bedminster, Brietel BS3 1BG

THE ENVIRONMENTAL LABORATORY LTD

nit A2, Windmill Reed, Peneweed Industriel Estate, St Leonards On Sea, East Susaer, TH38 887 Tel: 01424 718618 Fax: 01424 729911

ANALYTICAL REPORT No. AR25994

Location: Horsham (Brickworks)

City I name



Your Jeb No: HOR462

Reporting Date: 09/04/10

| Soils |
|-------|
|-------|

| | Characteristic | Sift Loam | Sift Leam |
|------------------------|------------------|-----------|-----------|
| | Date Sampled | 22/03/10 | 22/03/10 |
| | Sample Reference | 601 Silt | 604 Sift |
| | Our ref | 53223 | 53224 |
| | | | |
| Naphthalene** | (mg/kg) | <0.5 | <0.5 |
| Acenaphthylene** | (mg/kg) | <0.5 | <0.5 |
| Acenaphthene** | (mg/kg) | <0.5 | <0.5 |
| Fluorene** | (mg/kg) | <0.5 | <0.5 |
| Phenanthrene** | (mg/kg) | <0.5 | <0.5 |
| Anthracene** | (mg/kg) | <0.5 | <0.5 |
| Fluoranthene** | (mg/kg) | <0.5 | <0.5 |
| Pyrene** | (mg/kg) | <0.5 | <0.5 |
| Benz(a)anthracene** | (mg/kg) | <0.5 | <0.5 |
| Chrysene** | (mg/kg) | <0.5 | <0.5 |
| Benzo(b)fluoranthene** | (mg/kg) | <0.5 | <0.5 |
| Benzo(k)fluoranthene** | (mg/kg) | <0.5 | <0.5 |
| Benzo(a)pyrene** | (mg/kg) | <0.5 | <0.5 |
| ndeno(123-cd)pyrene** | (mg/kg) | <0.5 | <0.5 |
| ibenz(ah)anthracene** | (mg/kg) | <0.5 | <0.5 |
| Benzo(ghi)perylene** | (mg/kg) | <0.5 | <0.5 |
| Total PAH** | (mg/kg) | <0.5 | <0.5 |

All results expressed on dry weight basis

** - MCERTS accredited test

M)

ELAB

Tek 81424 718618 Fax: 91424 720911 ANALYTICAL REPORT No. AR25994

Location: Horsham (Brickworks)

Your Job No: HOR462

Reporting Date: 09/04/10

F.A.O. Mike Nicholas T & P Regeneration Limited Number One, Dean Street Redmineter, Bristol 963 186

ERH CHIS - Sell

| | Characteristic | Silt Loam | Silt Loam |
|---|------------------|-----------|-----------|
| | Date Sampled | 22/03/10 | 22/03/10 |
| | Sample Reference | 601 Silt | 604 Silt |
| | Our ref | 53223 | 53224 |
| <u>Aramatic</u> | | | |
| >EC5-EC7 | (mg/kg) | <0.01 | <0.01 |
| >EC ₇ -EC ₈ | (mg/kg) | <0.01 | 0.02 |
| >EC ₈ -EC ₁₀ | (mg/kg) | 3.2 | 3.3 |
| >EC ₁₀ -EC ₁₂ | (mg/kg) | 3.2 | 3.4 |
| >EC ₁₂ -EC ₁₆ | (mg/kg) | 6.7 | 6.9 |
| >EC ₁₆ -EC ₂₁ | (mg/kg) | 8.3 | 8.7 |
| >EC ₂₁ -EC ₃₅ | (mg/kg) | 15.2 | 18.8 |
| Aliahetic. | | | |
| >EC5-EC6 | (mg/kg) | <0.01 | <0.01 |
| >EC ₆ -EC ₈ | (mg/kg) | <0.01 | <0.01 |
| >EC ₈ -EC ₁₀ | (mg/kg) | 2.2 | 2.2 |
| >EC ₁₀ -EC ₁₂ | (mg/kg) | 1.2 | 1.2 |
| >EC ₁₂ -EC ₁₆ | (mg/kg) | 1.4 | 1.4 |
| >EC ₁₆ -EC ₂₁ | (mg/kg) | 1.2 | 1.5 |
| >EC ₂₁ -EC ₃₅ | (mg/kg) | 16.1 | 36.1 |
| TPH (C ₆ - C ₄₀) | (mg/kg) | 58.7 | 83.6 |

All results expressed on dry weight basis



ELAB

init A2, Windmill Road, Ponewood Industriel Estate, St Leonards On See, East Sussex, TH38 961 Tal: 01424 718618 Fax: 01424 729011

ANALYTICAL REPORT No. AR25994

Location: Horsham (Brickworks)

Your Job No: HOR462

Reporting Date: 09/04/2010

F.A.O. Mike Nicholas T&P Regeneration Limited

Number One, Dean Street Bedmineter, Bristol 853 186

Waters.

| | Date Sampled | 22/03/10 | 22/03/10 | |
|-------------------|------------------|-----------|-----------|--|
| | Sample Reference | 601 Water | 604 Water | |
| | Our ref | 53225 | 53226 | |
| Arsenic* | (µg/l) | <5 | <5 | |
| Cadmium* | (µg/l) | <1 | <1 | |
| | | _ | - | |
| Chromium* | (µg/l) | <5 | <5 | |
| Lead* | (µg/1) | <1 | <1 | |
| Nickel* | (µg/1) | 3 | 3 | |
| Copper* | (µg/l) | <5 | <5 | |
| Zinc* | (µg/l) | 22 | 17 | |
| Mercury* | (µg/l) | <0.1 | <0.1 | |
| Selenium* | (µg/l) | <5 | <5 | |
| Boron | (µg/l) | 6 | 130 | |
| pH Value* | (Units) | 7.6 | 7.8 | |
| Sulphate* | (mg/l) | 112 | 153 | |
| Total Cyanide* | (µg/l) | <5 | <5 | |
| Free Cyanide | (µg/l) | <5 | <5 | |
| Sulphide | (mg/i) | <0.1 | <0.1 | |
| Total Phenois | (µg/I) | <0.5 | <0.5 | |
| Elemental Sulphur | (mg/i) | <0.1 | <0.1 | |

* = UKAS Accredited test

M)

init A2, Windmill Read, Peneweed Industrial Estate, St Leonards On See, East Sussex, ThiSS 909 Tel: 01424 718618 Fai: 01424 720011

ANALYTICAL REPORT No. AR25994

Location: Horsham (Brickworks)

ELAB

Your Job No: HOR462

Reporting Date: 09/04/2010

F.A.O. Mike Nicholes T & P Regeneration Limited Humber One, Dean Street Bedminster, Bristol BG3 1BG

Water

| | Date Sampled | 22/03/10 | 22/03/10 |
|----------------------|------------------|-----------|-----------|
| | Sample Reference | 601 Water | 604 Water |
| | Our ref | 53225 | 53226 |
| Naphthalene | (ug/l) | <0.01 | 0.04 |
| Acenaphthylene | (µg/l) | 0.01 | 0.01 |
| | ". " | 0.01 | <0.01 |
| Acenaphthene | (µg/l) | **** | |
| Fluorene | (µg/t) | <0.01 | <0.01 |
| Phenanthrene | (µg/l) | 0.01 | 0.01 |
| Anthracene | (µg/I) | <0.01 | <0.01 |
| Fluoranthene | (µg/I) | 0.01 | 0.01 |
| Pyrene | (µg/1) | 0.01 | 0.01 |
| Benz(a)anthracene | (µg/l) | <0.01 | <0.01 |
| Chrysene | (µg/i) | <0.01 | <0.01 |
| Benzo(b)fluoranthene | (µg/I) | <0.01 | <0.01 |
| Benzo(k)fluoranthene | (µg/l) | <0.01 | <0.01 |
| Benzo(a)pyrene | (µg/l) | <0.01 | <0.01 |
| Indeno(123-cd)pyrene | (µg/l) | <0.01 | <0.01 |
| Dibenz(ah)anthracene | (µg/1) | <0.01 | <0.01 |
| Benzo(ghi)perylene | (µg/l) | <0.01 | <0.01 |
| Total PAH | (µg/l) | 0.05 | 0.08 |





Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone (01424) 718618 Facsimile (01424) 729911

THE ENVIRONMENTAL LABORATORY LTD

SAMPLE RECEIPT AND TEST DATES

 Our Analytical Report Number
 AR25994

 Your Job No:
 HOR462

 Sample Receipt Date:
 24/03/10

 Reporting Date:
 09/04/10

 Registered:
 24/03/10

 Prepared:
 25/03/10

 Analysis complete:
 09/04/10

TEST METHOD SUMMARY

| PARAMETER | Analysis Undertaken on | Date Tested | Method Number | Technique |
|----------------------------|---------------------------|-------------|------------------|--------------------|
| Arsenic** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Cadmium** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Chromium** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Lead** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Mercury** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Nicket** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Copper** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Zinc** | Air dried sample | 03/04/10 | 118 | ICPMS |
| Selenium | Air dried sample | 03/04/10 | 118 | ICPMS |
| Hexavalent Chromium | As submitted sample | 30/03/10 | 110 | Colorimetry |
| Water Soluble Boron | Air dried sample | 06/04/10 | 202 | Colorimetry |
| pH Value** | Air dried sample | 06/04/10 | 113 | Probe |
| Water Soluble Sulphate | Air dried sample | 07/04/10 | 209 | Colorimetry |
| Total Cyanide** | As submitted sample | 01/04/10 | 204 | Colorimetry |
| Free Cyanide | As submitted sample | 01/04/10 | 107 | Colorimetry |
| Sulphide | As submitted sample | 02/04/10 | 109 | Colorimetry |
| Elemental Sulphur** | Air dried sample | 06/04/10 | 122 | HPLC |
| Total Monohydric Phenols** | As submitted sample | 31/03/10 | 121 | HPLC |
| Soil Organic Matter* | Air dried sample | 06/04/10 | 111 | Titration |
| Speciated PAH** | As submitted sample | 31/03/10 | 133 | Gas Chromatography |
| Carbon Banding (TPH) | As submitted sample | 29/03/10 | 117 | Gas chromatography |

Determinands not marked with * or ** are non accredited

MCERTS accreditation covers samples which are predominantly sand, clay, loam or combinations of these three soil types

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

^{* =} UKAS Accredited test

^{** -} MCERTS Accredited test





Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY Telephone (01424) 718618 Facsimile (01424) 729911

THE ENVIRONMENTAL LABORATORY LTD

WATER SAMPLE RECEIPT AND TEST DATES

 Our Analytical Report Number
 AR25994

 Your Ref No:
 HOR462

 Sample Receipt Date:
 24/03/10

 Reporting Date:
 09/04/10

 Registered:
 24/03/10

 Prepared:
 25/03/10

 Analysis complete:
 09/04/10

WATER TEST METHOD SUMMARY

| PARAMETER | Method Number | Technique |
|-------------------|------------------|--------------------|
| Arsenic* | 101 | ICPMS |
| Cadmium* | 101 | ICPMS |
| Chromium* | 101 | ICPMS |
| Lead* | 101 | ICPMS |
| Nickel* | 101 | ICPMS |
| Copper* | 101 | ICPMS |
| Zinc* | 101 | ICPMS |
| Mercury* | 101 | ICPMS |
| Selenium* | 101 | ICPMS |
| Boron | 203 | Colorimetry |
| pH Value* | 113 | Electrometric |
| Sulphate* | 131 | Ion Chromatography |
| Total Cyanide* | 130 | Colorimetry |
| Free Cyanide | 132 | Colorimetry |
| Sulphide | 134 | Colorimetry |
| Total Phenois | 121 | HPLC |
| Elemental Sulphur | 122 | HPLC |
| Speciated PAH | 135 | GCMS |

* = UKAS Accredited test

Determinands not marked with * are non accredited

Any comments, opinions, or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

Client: Capita Symonds Project: Horsham (Brick works) Phase 2 Project No: HOR462 Date and time: 22.03.10 11.45am Logged by: Duncan Guthrie Barometric pressure trend (24 hr)*1: Day before:

Surface ground conditions:
Weather conditions: Cloudy and Windy Approved By:

At start of visit: 1013 At end of visit: 1012

Monitoring equipment: Gas Analyser: GAS DATA LMS xi

Date of last calibration: 01/08/2009

| Menitoring Point | | | | | | Gas Concentrations | | | | | Groundwater | | |
|------------------|-----------|------------|--------|-----------|---------|--------------------|------------|-----------------|----------------|----------------|------------------------|-----------------------|--------------------------------|
| Borehole | T | Barometric | Methan | e (% v/v) | Methane | (% LEL) | Carbon Dic | xide (% v/v) | Oxyger | 9 (% v/v) | Groundwater Level*2 | Depth To | 1 |
| No. | Flow Rate | Pressure | CH₄ | CH₄ | CH₄ | СН₄ | CO2 | CO ₂ | O ₂ | O ₂ | | Base Of Borehole*2 | Comments |
| LeD | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | - | | 1 |
| | Var . | Pascals | Peak | Steady | Peak | Steady | Peak | Steady | Peak | Steady | (m) | (m) | |
| WS508 | 0.30 | 1012 | 0.00 | 0.00 | 0.00 | 0.00 | 1.40 | 1.30 | 18.60 | 18.60 | 5.04 | 5.94 | Site Ha |
| WS511 | 0.00 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.10 | 20.60 | 20.60 | 2.02 | 2.14 | |
| WS514 | 0.10 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.40 | 20.40 | 2.41 | 2.90 | Site Ha |
| W\$516 | -0.10 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.30 | 20.30 | 2.71 | 3.07 | Site Ha |
| WS517 | 0.40 | 1012 | 0.00 | 0.00 | 0.00 | 0.00 | 0.90 | 0.80 | 19.20 | 19.20 | Dry | 2.52 | Site Ha |
| внз | 0.00 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 20.60 | 20.60 | 1.28 | 1.79 | Site Ha - SE corner of pond |
| DS01 | 0.50 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.40 | 20.40 | 2.76 | 3.64 | Site Ha |
| • | | - | • | | | • | | • | • | - | | - | |
| BHS | 0.60 | 1012 | 0.00 | 0.00 | 9.00 | 9.00 | 0.00 | 0.00 | 20.40 | 20.40 | 1.80 | 4.18 | |
| BH10 | 0.60 | 1011 | 0.00 | 9.00 | 0.00 | 0.00 | 15.00 | 13.00 | 13.50 | 14.80 | Dry | 5.91 | |
| DS09 | 0.20 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.10 | 20.10 | 1.63 | 3.83 | |
| ₽ H9 | 0.20 | 1013 | 0.00 | 0.00 | 9.00 | 0.00 | 1.10 | 0.20 | 17.50 | 19.50 | 2.50 | 4.20 | |
| DS13 | -2.40 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.30 | 19.90 | 19.09 | 2.30 | 4.60 | |
| DS11 | 0.10 | 1013 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.00 | 20.30 | 20.30 | 1.05 | 3.76 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| lotes: | _ | | | | | | _ | | | | | 7 | |

Notes:

^{*18}arometric pressure trend recorded from BBC weather website at nearest reported weather station on the day of visit.

^{*2} Measured from ground level unless stated otherwise.

Client: Capita Symonds Project: Horsham (Brick works) Phase 2 Project No: HOR462 Date and time: 08.04.10 10.00am Surface ground conditions: Dry Logged by: Duncan Guthrie Approved By: Weather conditions: Blue skies with occasional cloud. Barometric pressure trend (24 hr)*1: Day before: At end of visit: 1824 At start of visit: 1030 Monitoring equipment: Gas Analyser: GAS DATA LMS xi Date of last calibration: 01/08/2009 Monitoring Point Gas Concentrations Groundwater Depth To Base Of Carbon Dioxide (% v/v) Methane (% v/v) Methane (% LEL) Oxygen (% v/v) Borehole Barometric Groundwater Flow Rate CH. CH Level*2 Pressure CH. CO CO2 O₂ O₂ Comments Borehole*2 LeD 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Vhr Pascals Peak Steady Peak Steady Peak Peak Steady (m) Steady (m) WS508 -0.10 1028 0.00 0.00 0.00 0.00 1.50 1.50 19.40 19.40 5.08 5.90 Site Ha WS511 0.00 103 0.00 0.00 0.00 0.10 21.00 21.00 0.00 0.00 2.10 2.15 Site Ha WS514 0.00 1027 0.00 0.90 9.00 0.00 0.00 0.00 20.40 20.40 2.50 2.95 WS516 0.00 1027 Site Ha 0.00 0.00 0.00 0.00 0.00 0.00 20.30 20.30 2.75 3.02 WS517 Site Ha 0.00 1028 0.00 0.00 0.00 0.00 0.20 0.20 20.50 20.50 Dry 2.50 **8**H3 0.00 1030 0.00 0.00 0.00 0.00 0.20 0.00 20.80 20.80 1.36 1.80 of pond DS01 0.10 1028 0.00 0.00 0.00 0.00 2.90 2.80 16.50 16.50 2.79 3.65 Site Ha BHS 0.20 1026 0.00 0.00 0.00 0.00 1.30 1.00 8.40 11.90 1.91 4.20 **BH10** 0.00 1024 0.00 0.00 9.90 0.00 0.10 0.10 20.00 29.00 Dry 5.89 DS09 0.00 1025 0.00 0.00 9.00 0.00 0.30 0.10 20.30 20.30 1.70 3.85 0.00 1026 BH9 0.00 0.00 0.00 0.00 1.70 0.10 15.40 19.80 2.56 4.20 0.40 **DS13** 1026 0.00 0.00 0.00 0.00 5.30 16.30 16.30 5.30 2.41 4.61 DS11 0.00 1024 0.00 0.00 0.00 0.00 0.00 20.30 20.30 3.75 0.00 1.09

^{**}Barometric pressure trend recorded from BBC weather website at nearest reported weather station on the day of visit.

^{*2} Measured from ground level unless stated otherwise.

Client: Capita Symonds Project: Horsham (Brick works) Phase 2 Project No: HOR462 Date and time: 26.04.10 1.45pm Surface ground conditions:Dry Weather conditions: Cloudy Approved By: Logged by: Duncan Guthrie Barometric pressure trend (24 hr)*1: Day before: At start of visit: 1019 At end of visit: 1016 Monitoring equipment: Gas Analyser: GAS DATA LMS xi Date of last calibration: 01/08/2009 Gas Concentrations Groundwater **Monitoring Point** Depth To Methane (% LEL) | Carbon Dioxide (% v/v) Methane (% v/v) Oxygen (% v/v) Borehole Base Of Flow Rate Level*2 CO Pressure CH₄ CO2 Comments No. Borehole*2 0.1 LoD €.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 **V**hr Pascals Peak Steady Peak Steady Peak Steady Peak Steady (m) (m) Site Ha 16.20 5.50 5.82 WS508 0.00 1018 0.00 0.00 0.00 0.00 2.10 2.00 16.20 1018 0.00 0.00 0.10 0.00 20.70 20.70 Dry 2.12 WS511 0.00 0.00 WS514 1017 0.00 0.00 0.00 0.00 0.00 20.30 20.30 2.10 2.90 Site Ha -6.20 0.00 WS516 1017 0.00 0.00 0.00 0.00 20.49 20.48 2.58 3.08 Site Ha 0.30 0.00 0.90 Site Ha 0.60 0.60 19.30 19.30 Dry 2.51 WS517 0.00 1017 0.00 0.00 0.00 0.00 of pond 16.70 1.63 1.87 **B**H3 0.00 1018 0.00 0.00 0.00 0.00 1.80 1.80 16.70 DS01 1617 0.00 0.00 0.00 0.00 2.20 2.20 17.80 17.80 2.95 Site Ha 9.10 0.00 20.20 20.20 3.00 4.16 BH8 0.00 1017 0.00 0.00 0.00 0.00 0.00 5.97 16.50 14.00 13.20 14.50 Dry BH10 0.40 1017 0.00 0.00 0.00 0.00 0.50 20.00 20.00 2.54 3.87 **DS09** 0.00 1017 0.00 0.00 0.00 0.00 0.20 BH9 0.10 1017 0.00 0.00 0.00 0.00 0.70 0.10 20.10 20.10 2.60 4.03 **DS13** 0.20 1017 0.00 0.00 0.00 0.00 1.00 1.00 18.60 18.60 2.41 4.02 20.10 2.21 3.79 1017 0.00 0.00 0.00 0.00 0.00 20.10 DS11 0.10 0.00 WS514 - Water present around bung and had to be drained prior to testing.

^{*1}Barometric pressure trend recorded from BBC weather website at nearest reported weather station on the day of visit.

^{*2} Measured from ground level unless stated otherwise.

| Client: Capit | a Cumanda | | | | | | | | | | | | |
|--|----------------|--------------|-------------|--------------------|----------------------------|----------------|-----------------|-----------------|---------------|---------------------|---------|------------|----------|
| | | vorks) Phase | 2 | | | | | | | | | | |
| Project No: | , | , | | | | | | | | | | | |
| Date and tim | | | | | Surface grou | | | | | | | | |
| Logged by: John Flannery Approved By: DC Weather conditions: Sunny Barometric pressure trend (24 hr)*1: Day before: At start of visit: 1006 At end of visit: 1005 | | | | | | | | | | | | | |
| Barometric p | ressure tren | d (24 hr)*': | Day before: | | | At start of vi | ısıt: 1006 | | At end of vis | at: 1005 | | | |
| Monitoring | equipment: | Gas Analyse | r: GAS DAT | A LMS xi | | | | | Date of last | calibration: | | | |
| M | lonitoring Poi | nt | | Gas Concentrations | | | | | | Ground | | | |
| Borehole | | Barometric | Methan | e (% v/v) | Methane (% LEL) Carbon Dio | | xide (% v/v) | Oxygen | (% v/v) | Groundwater Base Of | | | |
| No. | Flow Rate | Pressure | CH₄ | CH₄ | CH₄ | CH₄ | CO ₂ | CO ₂ | O_2 | O ₂ | Level*2 | Borehole*2 | Comments |
| LoD | 0.1 | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | - | |
| | l/hr | Pascals | Peak | Steady | Peak | Steady | Peak | Steady | Peak | Steady | (m) | (m) | |
| WS508 | 0.10 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 2.50 | 15.40 | 15.40 | 5.60 | 5.20 | |
| WS511 | 0.10 | 1006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 21.40 | Dry | 2.13 | |
| WS514 | 0.10 | 1006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.20 | 19.60 | 19.60 | 2.60 | 2.69 | |
| WS516 | 0.10 | 1006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 20.00 | 2.69 | 3.60 | |
| WS517 | 0.10 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | 1.20 | 19.10 | 19.10 | Dry | 2.51 | |
| внз | 0.10 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 2.60 | 2.50 | 15.40 | 15.40 | 1.65 | 1.81 | |
| DS01 | 0.51 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 3.80 | 3.50 | 15.30 | 15.30 | 3.40 | 3.64 | |
| - | | - | - | - | - | - | - | - | - | - | - | - | |
| BH8 | 0.10 | 1006 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.80 | 20.80 | 3.19 | 4.13 | |
| BH10 | 0.10 | 1006 | 0.00 | 0.00 | 0.00 | 0.00 | 17.00 | 14.00 | 14.80 | 14.80 | Dry | 5.90 | |
| DS09 | 0.01 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 15.60 | 15.50 | 2.91 | 3.81 | |
| ВН9 | 0.10 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 0.50 | 20.30 | 20.20 | 3.20 | 4.20 | |
| DS13 | 0.10 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 6.20 | 6.20 | 11.80 | 11.80 | 3.19 | 4.00 | |
| DS11 | 0.41 | 1005 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.10 | 20.60 | 20.60 | 2.35 | 3.76 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Notes: | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| l | | | | | | | | | | | | I | |

^{*}¹Barometric pressure trend recorded from BBC weather website at nearest reported weather station on the day of visit.
*² Measured from ground level unless stated otherwise.

Appendix E General Assessment Criteria

GACs in mg/kg for Soil Type = Sandy Soil Soil Organic Matter = 1.0%

| Contaminant of Concern | Residential | Residential no | Commercial | Allotments | Public Open Space |
|--|--|-------------------|--|------------|--|
| A | 00 | plant | Industrial | 40 | |
| Arsenic | 32 | 35 | 640 | 43 | 130 |
| Boron (OLAIDE) | 94 | 6700 | 110000 | 14 | 25000 |
| Barium (CLAIRE) | | | 22000 | | |
| Beryllium (LQM) | | | 420 | | 200 |
| Cadmium | 10 | 84 | 230 | 1.8 | 280 |
| Chromium VI | 34 | 37 | 330 | 52 | 590 |
| Copper | 630 | 3900 | 39000 | 110 | 33000 |
| Lead | 180 | 210 | 4400 | 170 | 870 |
| Mercury SGV | 170 | 230 | 3600 | 80 | 960 |
| Nickel | 130 | 130 | 1800 | 230 | 2900 |
| Selenium SGV | 350 | 600 | 13000 | 120 | 2200 |
| Vanadium | 200 | 220 | 5600 | 230 | 850 |
| Zinc | 2200 | 40000 | 660000 | 340 | 150000 |
| Inorganic Cyanide | 780 | 790 | 16000 | 2300 | 3000 |
| TPH Aliphatic >C5 - C6 | 17 | 17 | 2600 | 560 | 60000 |
| TPH Aliphatic >C6 - C8 | 33 | 33 | 5000 | 1600 | 81000 |
| TPH Aliphatic >C8 - C10 | 7.8 | 7.9 | 1200 | 220 | 6300 |
| TPH Aliphatic >C10 - C12 | 44 | 44 | 6300 | 1500 | 9900 |
| TPH Aliphatic >C12 - C16 | 210 | 210 | 25000 | 8400 | 13000 |
| TPH Aliphatic >C16 - C35 | 17000 | 17000 | 1200000 | 230000 | 270000 |
| TPH Aromatic >C8 - C10 | 11 | 15 | 2200 | 6.8 | 3300 |
| TPH Aromatic >C10 - C12 | 35 | 83 | 9700 | 9.2 | 4600 |
| TPH Aromatic >C12 - C16 | 91 | 410 | 25000 | 18 | 5700 |
| TPH Aromatic >C16 - C21 | 200 | 1000 | 27000 | 38 | 4700 |
| TPH Aromatic >C21 - C35 | 790 | 1300 | 28000 | 280 | 5000 |
| Benzene SGV | 0.054 | 0.11 | 16 | 0.016 | 54 |
| Chloroethene | 0.0002 | 0.0003 | 0.04 | 0.001 | 3.0 |
| 1,2-Dichloroethane | 0.002 | 0.002 | 0.36 | 0.004 | 12 |
| Ethylbenzene SGV | 42 | 70 | 510 | 16 | 510 |
| Tetrachioroethanes | 0.41 | 0.44 | 63 | 0.39 | 890 |
| Tetrachloroethene | 0.53 | 0.56 | 91 | 1.6 | 415 |
| Tetrachloromethane | 0.0077 | 0.0078 | 1.7 | 0.16 | 93 |
| Toluene SGV | 92 | 260 | 835 | 22 | 835 |
| 1.1.1-Trichloroethane | 2.6 | 2.7 | 390 | 47 | 1400 |
| Trichloroethene | 0.045 | 0.046 | 6.6 | 0.41 | 390 |
| Xylenes SGV | 20 | 22 | 470 | 28 | 470 |
| Benz[a]anthracene | 7.1 | 9.7 | 140 | 3.7 | 35 |
| Benzo[a]pyrene | 1.0 | 1.0 | 14 | 0.61 | 4.2 |
| Benzo[b]fluoranthene | 8.2 | 10 | 140 | 5.0 | 41 |
| Benzo[ghi]perylene | 9.8 | 10 | 150 | 16 | 48 |
| Benzo[k]fluoranthene | 8.8 | 10 | 140 | 7.0 | 43 |
| Chrysene | 66 | 100 | 1400 | 26 | 360 |
| Dibenz[ah]anthracene | 1.0 | 1.0 | 14 | 0.87 | 4.4 |
| Fluoranthene | 620 | 2400 | 54000 | 130 | 9100 |
| Indeno[123-cd]pyrene | 7.8 | 10 | 140 | 4.2 | 40 |
| Naphthalene | 5.5 | 7 | 75 | 4.0 | 75 |
| Phenol | 180 | 310 | 685 | 62 | 685 |
| Pyrene | 770 | 3500 | 76000 | 150 | 13000 |
| Acenapthene LQM values | 210 | 3300 | 85000 | 100 | 13000 |
| Acenapthene LQM values Acenapthylene LQM values | Commence of the Commence of th | | 84000 | | |
| Fluorene LQM values | 170 160 | | A STATE OF THE PARTY OF THE PAR | | |
| | THE SHEET SHEET SHEET SHEET SHEET | | 64000 | | |
| Phenanthrene LQM values | 92 | THE TAXABLE PARTY | 22000 | | |
| Anthracene LQM values MTBE (CLAIRE) | 2300 | | 530000 | | and a supplemental and a supplem |