



**Geo-Environmental**

**REMEDIATION STRATEGY & VERIFICATION PLAN**

**for the land at**

**HORSE ARENA (HA), WOODCROFT FARM,  
WOODCROFT LANE, LOVEDEAN, PO8 9QA**

**on behalf of**

**VISTRY HOMES SOUTHERN**



## Remediation Strategy &amp; Verification Plan

|                                                                                                                                                                                                |                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Report:                                                                                                                                                                                        | REMEDATION STRATEGY & VERIFICATION PLAN                                                       |
| Site:                                                                                                                                                                                          | HORSE ARENA (HA), WOODCROFT FARM, WOODCROFT LANE, LOVEDEAN, PO8 9QA                           |
| Client:                                                                                                                                                                                        | VISTRY HOMES SOUTHERN                                                                         |
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## AMENDMENT RECORD

| Revision ref. | Date       | Reasons for amendment                                                                | Author | Reviewed By | Authorised by |
|---------------|------------|--------------------------------------------------------------------------------------|--------|-------------|---------------|
| 1.0           | 28/06/2018 | First issue                                                                          | FG     | GR          | GR            |
| 2.0           | 26/10/2018 | Accounts for findings of Detailed Quantitative Gas Risk Assessment                   | FG/GR  | GR          | GR            |
| 3.0           | 27/03/2020 | Revision to reflect proposed development levels                                      | GR     | GR          | GR            |
| 4.0           | 24/08/2020 | Revision to reflect proposed development levels                                      | FG     | LL          | GE            |
| 5.0           | 22/12/2020 | Revision to reflect changes to proposed development levels, revision to figures only | FG     | LL          | GR            |

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## **1.0 INTRODUCTION**

### **1.1 General**

Following a Phase I and Phase II assessment of the site undertaken by third parties, detailed within reports listed below, Geo-Environmental was appointed by Grainger PLC and subsequently Vistry Southern, to undertake supplementary investigation and formulate a Remediation Strategy in relation to the proposed development at Woodcroft Farm, Woodcroft Lane, Lovedean, PO8 9QA herein referred to as 'the site' (Figures 1 and 2). Three distinct areas of the development site were identified as being impacted by contamination. Separate Remediation Strategies will be written for each of these distinct areas, therefore this Remediation Strategy is specific to the area of the development site known as the former Horse Arena area, located immediately to the north of the infilled chalk pit and to the north-west of the former farmyard area.

This Remediation Strategy & Verification Plan for the Horse Arena (RSVP-HA v5.0), should be read in conjunction with the Remediation Strategy & Verification Plans for the former chalk pit (RSVP-CPv6.0) and farmyard (RSVP-FY v6.0) dated December 2020.

The site as a whole, has been the subject to Phase I Ground Condition Report, ref 21834, dated 2010 prepared by Peter Brett Associates (PBA), which included a desk study and preliminary risk assessment for the overall Woodcroft Farm site; a Factual Report, ref RML 4750, dated October 2011 prepared by Risk Management Limited, which included ground investigation and laboratory test results; and a Geoenvironmental and Geotechnical Ground Investigation Report, ref 21834-030-R02, dated July 2013 prepared by PBA, which presented an interpretative assessment of the overall Woodcroft Farm site.

In addition to the above reports, Geo-Environmental was commissioned in 2017 to undertake a review of these reports, and supplementary testing and assessment. This was reported with a Soil Contamination Assessment ref. GE16662-FG02-170929, dated 29<sup>th</sup> September 2017.

The remedial strategy presented herein has been developed to reflect the findings from all phases of the assessments undertaken on this site, in respect to the horse arena area. Based on the findings of the investigations it is considered that remediation works would be required with respect to soil contamination identified within the natural soils within the horse arena area.

The revised remedial strategy (v5.0) accounts for clarification of development levels, as discussed with the Client and the Developer, and presented on Ardent's development levels plans ref 192931-073, 192931-074 and 192931-075, prepared November 2020.

### **1.2 Objectives**

The Remediation Strategy & Verification Plan (RSVP) sets out the proposed remedial works to be undertaken on the subject site to support its development for a proposed residential end use with private gardens.

### **1.3 Planning Permission**

It is understood that a planning application has been approved for the site by Havant Borough Council under Planning Reference APP/13/00804. The following pre-commencement planning conditions have been attached to the application which relate to the remediation and validation of land contamination on the site.



11. Prior to the commencement of construction within any specified phase or defined area the development approved by this Planning Permission (as may be agreed in writing by the Local Planning Authority), a scheme to deal with the risks associated with contamination of the site shall be submitted to and approved in writing by the Local Planning Authority. That scheme shall include all of the following elements unless specifically excluded in writing by the Local Planning Authority.

1. A scheme of further investigation, based on the previously submitted GeoEnvironmental & Geotechnical report. The scope of the investigation shall be sufficient to:
  - confirm the preliminary assessment of the nature and extent of contamination at the site,
  - inform an appropriate assessment of the risks to all receptors that may be affected, including controlled waters, and;
  - enable the appropriate design of remediation and/or risk mitigation measures (if required).
2. The results of the further investigation and risk assessment (1) and if appropriate, a method statement based on these results giving full details of the remediation and/or risk mitigation measures required, and how they are to be undertaken.
3. A verification report or statement (as appropriate) upon completion of the works set out in (2) [if any], confirming that measures undertaken have been implemented in accordance with the method statement, and have achieved the required performance standards. The verification report / statement shall provide details of any measures necessary for maintenance, further monitoring and reporting.

All elements shall be adhered to unless agreed in writing by the Local Planning Authority.

*Reason: To prevent future occupants of proposed residential properties being exposed to unacceptable risks from identified contamination & soil gas associated with automotive repair and landfill activity previously undertaken at the site, and to ensure that the site does not pose an unacceptable risk to the groundwater Source Protection Zone 1; having due regard to policies and proposals E1 of the Hampshire County Structure plan 1996-2011 (Review), and DM10 of the Havant Borough Adopted Core Strategy (2011), and DM17 of the Draft Local Plan (Allocations) 2012.*

12. Prior to the commencement of construction of any part of the development approved by this Planning Permission, a protocol for the identification & assessment of any unforeseen ground conditions shall be submitted to and approved in writing by the Local Planning Authority. The provisions of the approved protocol shall be observed throughout the undertaking of all relevant construction activities.

*Reason: For the protection of workers and the general public during the development of potentially contaminated land, and to prevent future occupants of proposed residential properties being exposed to unacceptable risks from unidentified &/or unexpected contamination that may be associated with previous activities undertaken at the site; having due regard to policies and proposals E1 of the Hampshire County Structure plan 1996-2011 (Review), and DM10 of the Havant Borough Adopted Core Strategy (2011), and DM17 of the Draft Local Plan (Allocations) 2012.*

13. If, during development, contamination not previously identified at the site is found to be present, then no further development (unless otherwise agreed in writing with the Local Planning Authority) shall be carried out until the developer has submitted, and obtained written approval from the Local Planning Authority for an addendum to the Method Statement required under Condition 1, (2). This addendum shall detail how this unexpected contamination shall be dealt with, and the development shall not be carried out other than in accordance with the approved details.



*Reason: For the protection of workers and the general public during the development of potentially contaminated land, and to prevent future occupants of proposed residential properties being exposed to unacceptable risks from unidentified &/or unexpected contamination that may be associated with previous activities undertaken at the site; having due regard to policies and proposals E1 of the Hampshire County Structure plan 1996-2011 (Review), and DM10 of the Havant Borough Adopted Core Strategy (2011), and DM17 of the Draft Local Plan (Allocations) 2012.*



## **2.0 BACKGROUND**

This Remediation Strategy & Verification Plan (RSVP) has been developed from the findings of the various phases of assessment.

A brief overview of salient findings of the reports is presented below. For further information, the individual reports should be referred to directly.

### **2.1 Overview**

The wider site's previous uses included use as a farm with associated barns and buildings, scrapyards and the former chalk pit being infilled as an inert landfill. The portion of the site considered specifically herein comprised a horse arena located to the north of the former chalk pit and north-west of the former farmyard, as shown in Figure 2.

The ground conditions encountered within the horse arena comprised a mantle of Topsoil and/or Made Ground overlying, sandy clay, and clay, with bands of flint cobbles overlying the Chalk. Made Ground was only encountered within one location, TP309.

The Topsoil and/or Made Ground was underlain by soft to firm clay and sandy clay (Head Deposits) in the majority of locations with a band of firm to stiff clay with flint cobbles tentatively identified as Lambeth Group overlying the Chalk. The Chalk was encountered within the majority of locations within the horse arena area from a depth of between 1.10m bgl and 2.10m bgl.

Previous investigation and testing by third parties identified exceedances of metals within the natural soils in the horse arena area of the site. Therefore, further investigation and testing was undertaken to inform this RSVP and is presented herein.

The supplementary investigation and testing of soils on site identified contaminant concentrations of concern within the natural soils in relation to Arsenic and Beryllium. It is considered that remedial action would be warranted to protect end users of a residential development on this site in relation to the isolated concentrations of Arsenic and Beryllium.

Groundwater was not encountered within any of the investigation locations and is anticipated to be present at depths in excess of 25.0m bgl.

Following a Detailed Ground Gas Risk Assessment in relation to the adjacent infilled chalk pit and in the absence of any plausible ground gas source on the Horse Arena area, no requirement for ground gas protection has been identified.

### **2.2 Supplementary Intrusive Investigation Works – Horse Arena**

As part of the formulation of a remedial strategy further intrusive investigation works were undertaken between 14<sup>th</sup> May 2018 and 18<sup>th</sup> May 2018 in order to delineate areas of previously identified contamination. In relation to the Horse Arena area these works comprised the excavation of 6 No. trial pits to depths of up to 3.00m bgl with associated environmental sampling and testing at various depths. The location of the trial pits is presented in Figure 3 with the results of the exploratory hole logs for the recent and previous phase of investigation presented in Appendix A, and the geochemical analysis and statistical assessments presented in Appendix B. Figure 6 shows the approximate extent of the area of impacted soils.



Further discussion relating to the implications of these supplementary investigation works is presented in Section 3 of this report.

### **2.3 Proposed Site Use**

The proposed development for the wider site is understood to comprise the construction of 288 residential units, associated car parking, open space and landscaping. The horse arena area covers c. 10No. houses and associated gardens. The area of impacted soil extending slightly to the north and east of the Horse Arena fence as shown on Figure 6 such that the impacted area extends into an additional rear garden and area of communal garden to the east and some amenity soft landscaping in parking areas to the north.

The Levels Strategy indicates that finished development levels in gardens will be c. 0.70-1.0m higher than the predevelopment ground level, as shown in Figures 7 and 9.

### **2.4 Conceptual Site Model**

Assessment of the investigation findings have identified particular hazards, or potential hazards which were considered to require intervention (remediation) to mitigate the risk of harm. Remediation works are proposed to break the identified plausible pollutant linkages associated with respect to contaminants of concern above respective assessment criteria within private garden areas proposed within the Horse Arena area, thereby mitigating the associated risk of harm to human health.

This would be undertaken as several phases of works on site:

- 1) Surface strip of sand dressing surface within the Horse Arena.
- 2) Surface strip of Topsoil overlying the Horse Arena area. The Topsoil within this area has not been identified as being impacted by contaminants, so would be suitable for re-use within private gardens and areas of soft landscaping.
- 3) Installation of a soil cover system in private garden areas and areas of soft landscaping to break the source, pathway receptor pollutant linkage for the contaminants identified within the Horse Arena area, and to also provide suitable growing media. The cover system should be a minimum of 450mm in thickness to include a minimum of 300mm of Topsoil. The cover system is likely to be completed with Topsoil placement towards the end of plot specific development.

Given the increase in ground levels indicated by the Levels Strategy drawing, there is no requirement to undertake a reduced dig to accommodate the soil cover system in gardens. Figure 8 shows the plots where a soil cover system is considered to be required.

The aim of the remediation is not to remove all contamination identified on site but to reduce the identified risk to an acceptable level with respect to human health, the built environment and controlled waters.



### 3.0 SOILS

The ground conditions within the Horse Arena have been established through several phases of intrusive investigation. Encountered soils comprised Topsoil, overlying Head Deposits, Lambeth Group and Chalk.

Made Ground was only encountered in one location, TP309 to a depth of 0.30m bgl, and was found to comprise brown sandy clay with flint gravel, flint cobbles and occasional black staining. No visual or olfactory evidence of contamination was identified on the site.

A review of chemical analysis of the soil samples from the Horse Arena area was undertaken, including the most recent samples taken for delineation purposes, and the results compared individually against the relevant GAC, SSAC or C4SL for a proposed residential end use (with plant uptake). Individual exceedances above the respective assessment criteria were identified for Arsenic, Beryllium and Nickel, as summarised in Table 1.

| Determinand | Tier 1 Criteria mg/kg     | Depth m bgl  | Concentration mg/kg | Geology |
|-------------|---------------------------|--------------|---------------------|---------|
| Arsenic     | S4UL – 37<br>SSAC – 38.03 | TP229 at 0.6 | 38.2                | Natural |
|             |                           | TP307 at 1.2 | 76.9                |         |
|             |                           | TP308 at 0.3 | 95.8                |         |
|             |                           | TP308 at 0.7 | 68.0                |         |
|             |                           | TP309 at 0.5 | 65.6                |         |
| Beryllium   | S4UL – 1.7<br>SSAC – 1.72 | TP306 at 0.8 | 2.0                 | Natural |
|             |                           | TP307 at 0.8 | 6.4                 |         |
|             |                           | TP307 at 1.2 | 2.9                 |         |
|             |                           | TP308 at 0.7 | 1.8                 |         |
|             |                           | TP309 at 0.5 | 5.1                 |         |
|             |                           | TP311 at 0.4 | 2.3                 |         |
|             |                           | TP311 at 0.8 | 2.6                 |         |
| Nickel      | S4UL – 180<br>SSAC – 149  | TP311 at 0.8 | 200                 | Natural |

**Table 1 Summary of exceedances against Tier 1 assessment criteria**

The tier 1 exceedances were screened against the Site Specific Assessment Criteria (SSAC) calculated for the site. All of the exceedances identified were also found to exceed the calculated SSAC for residential end use with plant uptake. The noted exceedances of the calculated SSAC have all been identified as being within the natural soils beneath the Topsoil within the Horse Arena area.

The results were assessed further through statistical assessment as described below.

Statistical analysis of the samples within the dataset was undertaken in accordance with guidance contained in the CIEH/CL:AIRE report 'Comparing Soil Contamination Data with a Critical Concentration' (May 2008). If the contamination status of the soils is considered in a planning context, the null hypothesis tested by the analysis is whether the true mean concentration is equal to or greater than the critical concentration for a given determinand, with the critical concentration being the relevant SSAC or GAC (the soil screening value) for that determinand in the context of the intended end use of the site. If the analysis shows that the true mean concentration is less than the critical concentration the null hypothesis can be rejected. The guidance recommends that for the null hypothesis to be rejected the analysis should show that there is a 95% (or higher) likelihood that the true mean concentration is below the critical concentration. Where this is the case the site is considered to be acceptable for the planned end use without any necessary remedial measures.



Statistical assessment was undertaken on all results of geochemical testing undertaken by Geo-Environmental, for heavy metals from within the natural soils from across the site excluding the farmyard area and chalk pit/landfill area. Due to the type and extent of Made Ground encountered within the farmyard and chalk pit/landfill areas it was deemed that results from these areas were not representative of the natural soils across the site and were therefore not suitable for inclusion within the statistical assessments.

The statistical analysis showed that the null hypothesis could not be rejected for Arsenic or for Beryllium, but that the null hypothesis could be rejected for Nickel. Whilst statistical outliers were recorded within the datasets for both Arsenic and Beryllium, removal of the outliers, all of which were located within the horse arena area, from the dataset did allow the null hypothesis to be rejected for both contaminants. As such the statistical assessment has demonstrated that the elevated concentrations of Arsenic and Beryllium identified are representative of localised elevated concentrations of Arsenic and Beryllium within the Horse Arena area only and are not considered to be representative of elevated background concentrations within the natural soils across the wider site. Whilst statistical outliers were identified for a number for other substances, all reported concentrations (and statistical upper confidence limit concentrations) were below the relevant SSAC. The results of the statistical assessments are presented within Appendix B.

It is considered that the most likely cause of the impacted natural soil within the horse arena would be from the imported sand dressing utilised as a cover in this area. Through the use of the area as a horse arena and the disturbance of the cover this may have resulted in a mixing, albeit minimal, of the imported materials with underlying natural soils.

In addition, all of the samples from the Horse Area were screened for the presence of asbestos. Asbestos was not identified within the samples analysed.

Based on the above assessment it is considered that remedial action would be warranted to protect end users of a residential development on this site in relation to the concentrations of Arsenic and Beryllium identified within the natural soils within the Horse Arena area, as shown on Figure 4. Remedial action to protect end users from impacted soil is discussed in Section 3.2 below.

### **3.1 Site Workers**

It is the responsibility of the Principal Contractor and their appointed sub-contractors to implement and manage safe systems of work, prepare their own risk assessments in accordance with Health and Safety legislation in order to protect persons in their employ, as well as mitigate the risk of harm to others due to works in their control. Special consideration should be given to the provisions of the Construction (Design & Management) Regulations 2015, Health and Safety at Work Act and the Control of Substances Hazardous to Human Health regulations to protect the safety of persons in their employment. Additional guidance can be sought from the CIRIA publications entitled "A Guide for Safe Working on Contaminated Sites" and "Environmental Good Practice on site guide (fourth edition)".

In addition to the safe systems of works to be implemented alongside appropriate risk assessments and method statements, all site personnel shall benefit from on-site hygiene facilities including wash area, toilets and drying room.

Separate canteen area and welfare facilities should be provided. All eating and drinking should be restricted to the canteen area and only once site personnel have removed outer PPE and washed exposed skin.

In the event of dry spells, or where the exposed surface becomes dry, regular damping down of the surface of the site will be required to prevent the release of soil dust which could impact on site operatives or migrate off-site, thereby mitigating both off-site exposure and nuisance for neighbours.

### 3.2 End Users

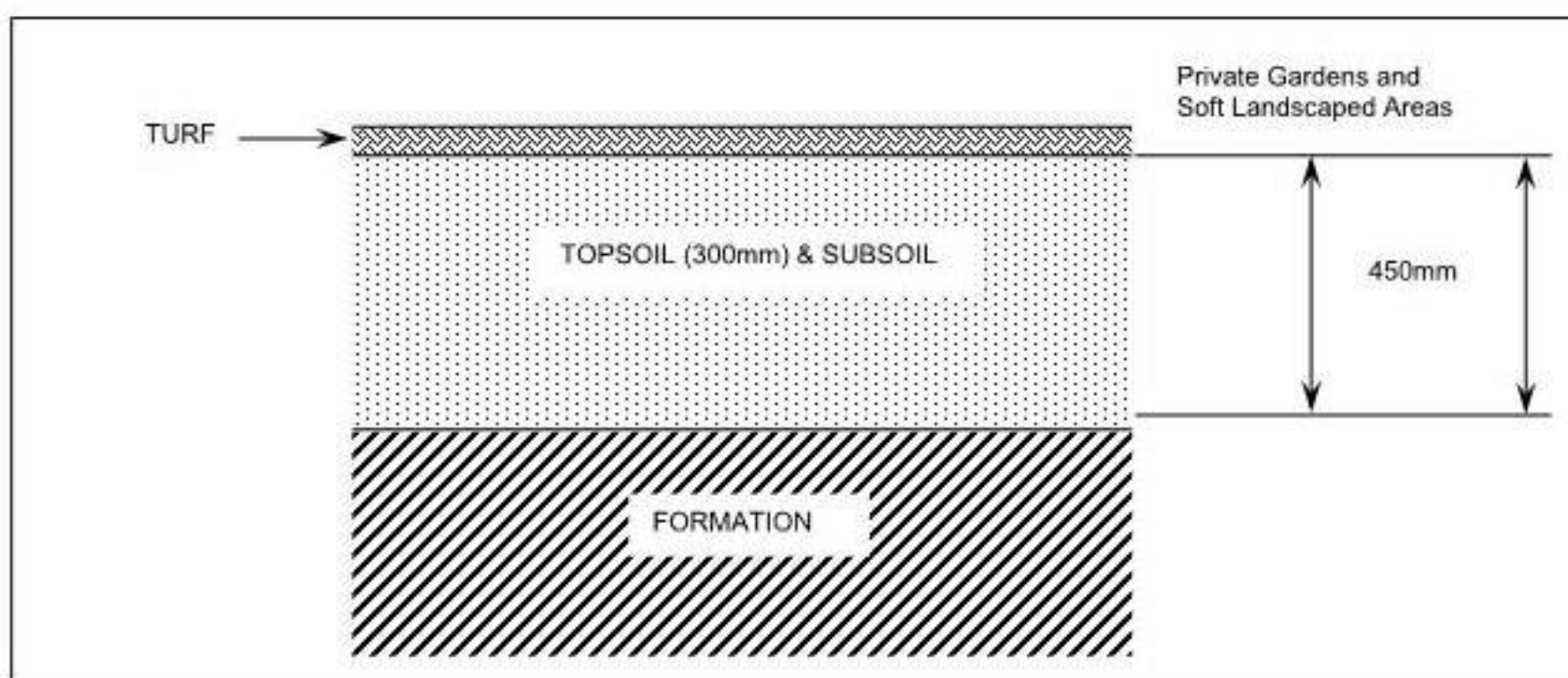
The tier 1 contamination assessment has identified several locations where reported concentrations were either elevated, or exceeded the Tier 1 screening criteria within the natural soils of the Horse Arena area.

Development levels have been determined from Ardent's development levels plans ref 192931-073, 192931-074 and 192931-075, prepared November 2020 for the developer and these show that ground levels are to be increased by 0.70-1.0m above the pre development level as summarised in Figure 7.

A soil cover system has been derived based on Soil Cover Systems for Land Regeneration by BRE, which indicated that a soil cover system of 450mm would be required within areas of private gardens and proposed soft landscaping areas. The cover system should include a minimum thickness of 150mm of Topsoil, although it is anticipated that the Local Planning Authority will require this to be increased to 300mm of Topsoil, i.e. thereby reducing the subsoil layer thickness to 150mm. The BRE cover system calculations are presented within Appendix C.

Given that the proposed development levels are to be increased by more than the minimum soil cover system thickness, it is anticipated that uncontaminated subsoil won from elsewhere on the site would be placed beneath the cover system to achieve the required levels. Contaminated soils from the adjacent chalk pit or farmyard area are not suitable for placement under the cover system on the Horse Arena.

An example of the recommended cover system for use in gardens and soft landscaping in the Horse Arena area is provided below, this recommendation is based on the formation being uncontaminated. This is required for the plots as shown in Figure 8.



With regards to private gardens and areas of communal soft landscaping, it is recommended that Topsoil is placed to provide a suitable growing medium for proposed planting areas as part of the cover system described above. The Topsoil within the Horse Arena area has been subject to sampling and geochemical testing and has been



demonstrated as being suitable for use within residential gardens. Therefore, Topsoil obtained from the Horse Arena area can be re-used within private gardens. It is considered unlikely that it will be necessary to import Topsoil to the site, however if it is necessary to import topsoil on to the development then, prior to importation, the chemical, physical and nutritional suitability should be verified. Importation of Topsoil or subsoil from unverified or unsuitable sources would require their removal from site and replacement with suitable materials. As a matter of good practice, it is recommended that the location, approximate extent and thickness of any imported topsoil are recorded and presented in the Validation/Verification Report to be prepared by the Environmental Consultant. Soil importation criteria is detailed in Appendix D.

Any soils imported onto the site should be verified free from contamination with chemical testing undertaken to confirm their suitability for use within areas of soft landscaping.

Should any regrading works be required on site which propose re-use materials (to include Made Ground) on the site of origin a Materials Management Plan will be developed for the site under the Code of Practice where:

- 1.) They are suitable for use at the location in question both geotechnically and geochemically (without prior treatment);
- 2.) The reuse will not cause unacceptable or increased risks to human health, controlled waters or the environment;
- 3.) They are used in the required quantities (and no more);
- 4.) There is certainty of use not just a possibility.

As such excavated soils on site will be removed from site for disposal, treatment at an appropriately licensed facility or re-used under the CL:AIRE Definition of Waste, Code of Practice where it can be demonstrated that there is a need for the use of the materials and where the risk is demonstrated to be acceptable under a Materials Management Plan. Where a RSVP is in place for the site, agreement of re-use must also be agreed with the regulators.

Where contaminated soils are located in an area of permanent hard cover, e.g. building footprint, road, driveway or the like, then the hard cover would break the pollutant linkage and remediation would not be required in terms of the risk to human health, however limited works may be required in these areas to provide a suitable working platform for development to proceed.

### **3.3 Inspection/Validation**

Whilst the increase in ground levels exceeds the minimum thickness for the soil cover system, this remedial strategy still includes placement of a soil cover system in order to verify that suitable soils have been used to mitigate the risk of harm to human health and to complete the soft landscaping to the plots within the affected area.

Verification of remediation measures shall be required through regular inspection at key stages of the works to include:

- Completion of the site strip and excavation of the Topsoil to expose the formation onto which clean soils are to be placed to raise ground levels;
- Placement of naturally occurring, uncontaminated site won soils as general bulk fill to raise levels to the underside of the soil cover system;
- Placement of a cover system, including verification of any additional subsoil and/or Topsoil in order to allow for the installation of the capping system required in private gardens and areas managed soft landscaping areas.



It is likely that verification will be undertaken in stages, such as site preparation, Topsoil strip, subsoil placement and topsoil placement. As such, final verification of the completed cover system is likely to be at the end of construction for any given plot. Inspections would be planned wherever possible to cover the main stages of site preparation, ground level raising and finishing with Topsoil.

The re-use of naturally occurring, uncontaminated soils does not strictly require a Materials Management Plan (MMP) or associated formal declaration by a Qualified Person under the Definition of Waste Code of Practice.

However, given that these are required for the remedial strategy in other areas of the site, the proposed placement/re-use of site won uncontaminated soils in the Horse Area would be included in a broader scope MMP as a matter of good practice.

Details of these works would be presented within a verification report for the site.

Staged verification reporting is proposed, i.e. the first verification report addressing the preparatory works and placement of site won soils as general fill to raise levels; and a second report stage on completion of the soil cover system on the individual plots (anticipated verification as batches of plots as development progresses).

### **3.4 Built Environment**

Buried plastics laid in contact with contaminated soils may be susceptible to attack by aggressive chemicals; therefore, potable water supplies may potentially become contaminated or tainted. With reference to UKWIR guidance, report reference 10/WM/03/21 (re-issued 2010), the results of the relevant chemical analyses for the natural soils within the Horse Arena area do not exceed the limiting concentrations of contaminants for standard polythene supply pipe.

The utility company should be consulted in order to confirm their specific requirements in this respect. At this time, subject to further confirmation, it is considered that specific protection measures are not required for potable water supply. As a matter of good practice and to maximise the protection to maintenance workers, it is recommended that clean, granular backfill is used in service runs and that marker tapes are used for all buried services.



## 4.0 WASTE

### 4.1 Waste Classification and Segregation

Waste may be defined as any substance or object in Annex 1 of the Waste Framework Directive which the holder discards, intends to discard, or is required to discard. The holder of waste is anyone in possession of waste or generates it and therefore both the contractor and ultimately the developer are responsible for safe disposal of waste.

The following information is provided for preliminary guidance purposes, as different facilities or operators may have differing acceptance criteria and further Waste Acceptance Criteria (WAC) analysis may be required to confirm the exact classification.

Waste Acceptance Criteria (WAC) testing was undertaken as part of the wider site investigations on representative samples not specific to the Horse Arena Area. As such, it is recommended that once/if materials for disposal have been identified, then further WAC testing should be undertaken to further clarify the materials for the purpose of disposal. However, it is considered likely that materials will be looked to be re-used elsewhere on the development site.

In the event of dry spells, or where the exposed surface becomes dry, it is recommended that the surface of the site is regularly damped down to prevent the release of soil dust which could migrate off-site and thereby mitigate both off-site exposure and nuisance for neighbours.

It is proposed to re-use materials on site under a Materials Management Plan which will be developed for the construction works on this site. This will include contingency plans in any unexpected contamination is encountered during the development. Elevated levels of metals have been identified with the natural soils in the horse arena area, no Made Ground has been identified. As such, it is not deemed suitable to re-used Made Ground materials from elsewhere on the site within the Horse Arena area. Only the reuse of natural soils is deemed appropriate within this area of the site.

In accordance with CL:AIRE Code of Practice (2011) materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded by the holder'. Current guidance recommends the retention and re-use of site won soils where there is a need for the materials and where the risk is acceptable

The Code of Practice therefore allows soils to be reused on site where the following criteria are met:

- Pollution of the environment and harm to human health is prevented and not increased in reusing the excavated materials;
- The material are suitable for use (without any further processing);
- There is certainty of use; and
- The quantity that is absolutely necessary (and no more) is used.

In order to comply with the Code of Practice, a Material Management Plan (MMP) that confirms the above criteria are met has to be prepared. The material management plan must be reviewed by a 'Qualified Person' who then issues a declaration to the Environment Agency. Geo-Environmental can provide this service should it be required.

Where materials do not meet the required criteria, it may be possible to treat them under an environmental permit so that they may be re-used on site.



Should material be required and reused under the Definition of Waste Code of Practice, the reuse of material will need to be fully documented and included within the Verification Report produced on completion of the works.



## 5.0 DISCOVERY STRATEGY

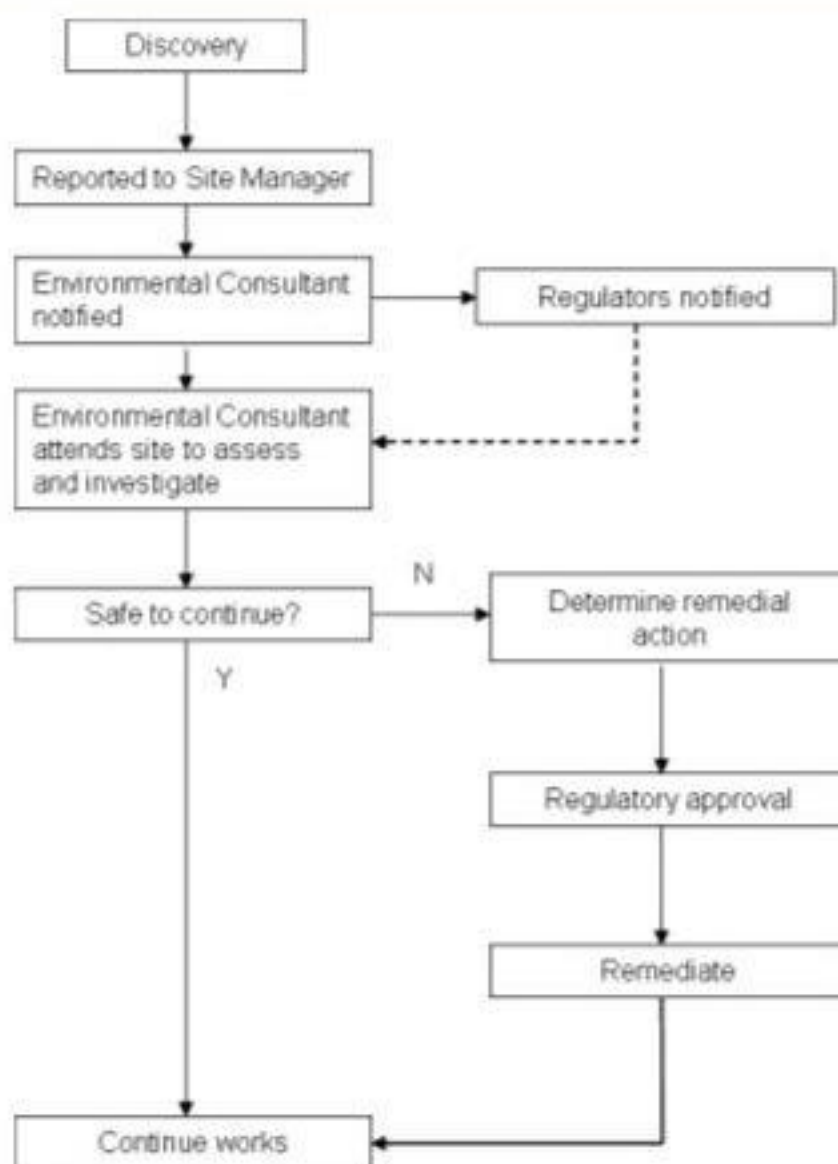
Whilst the site has been the subject of several phases of investigation and assessment, it remains possible that previously unexpected soil conditions may be encountered during the process of site preparation and construction.

Examples may include oily pockets within the soil, pockets of cement boarding or fibrous materials within the soil, black ashy materials, soils exhibiting strong odours, brightly coloured materials, and former structures or brickwork.

Should previously undiscovered contamination be encountered during the demolition/construction of the new buildings the following course of action should be adhered to:

- Works in the area of the suspected contamination should cease immediately. The ground workers should report any suspected contamination immediately to the Client's site supervisor. The supervisor should contact the Environmental Consultant, who should visit the site to assess the extent of the 'contamination'.
- The Environmental Consultant shall make records of their inspection, and pass details of these to the Local Authority.
- Where the conditions revealed differ from those previously anticipated, the Environmental Consultant shall take samples as deemed appropriate to be dispatched for appropriate chemical testing.
- Depending on the results of the testing either: 1) no further work will be required; 2) a further detailed risk assessment will be required; and/or 3) localised specific remedial measures will be necessary. Appraisal criteria will vary depending on the nature of the assessment.
- The results of any such testing will be sent to the Regulatory Authority for consultation. If further remediation is required, the Regulatory Authority will be informed of the date and time of the proposed works.
- Any further remediation will be undertaken in accordance with a method statement submitted to the Local Authority for approval. The works shall be supervised by the Environmental Consultant who shall provide a Verification Report for the Local Authorities purposes.

The process is summarised overleaf:



A copy of this strategy should be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious or contaminated materials they may encounter.



## 6.0 VERIFICATION

Verification is required to be undertaken throughout the course of the remediation works. The Verification Report will be submitted to the Client, NHBC, CL:AIRE and Local Authority for formal approval and Environment Agency if requested as part of any works completed under the Definition of Waste Code of Practice.

The Verification Report will refer to the works as set out within this RSVP and as required by any relevant planning conditions. The report will detail findings of any further investigation works (if undertaken on the site) in relation to Arsenic and Beryllium within the shallow natural soils of the Horse Arena area within proposed private gardens and areas of managed soft landscaping, as well as include relevant site based information such as records from site inspections, locations where the impacted soils were excavated and re-used on site or disposed of and validation sampling where required. Along with details of soil cover system installation and validation of thicknesses. Photographs of specific remedial or waste handling measures and an audit trail for any imported subsoil and Topsoil, including source, provenance, analytical results, placement location and thickness (should subsoil and/or Topsoil be imported).

A summary of verification proposals is presented in Table 2 below.

The remedial works will be inspected and validated by the Environmental Consultant (Geo-Environmental). In addition, the MMP and any QP review and declaration will be prepared by Geo-Environmental.



| Reference                                  | Principal requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Design or construction related | Site visit required by Qualified Geo-Environmental Engineer        | Supporting documentation                                                                                                                                                                                                                          |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.0 Verification general principles</b> | Geo-Environmental are supervising remedial works within the Horse Arena Area at Woodcroft Farm, Lovedean. These works require site clearance, stripping and setting aside of Topsoil, placement of site won uncontaminated soils to raise ground levels and installation of a soil cover system within gardens and areas of soft landscaping. The aforementioned work is in line with the approach adopted for site investigation and risk assessment and previously undertaken by Geo-Environmental in respect of the development. | Construction                   | Yes – See below                                                    | Details of construction programme to be provided by client/contractor.                                                                                                                                                                            |
| <b>2.0 Excavation of Impacted Soils</b>    | The development levels are to be increased by greater than the minimum soil cover system thickness and thus the remedial strategy does not require the excavation of impacted soils.                                                                                                                                                                                                                                                                                                                                                | Construction                   | Yes – 5 days' notice required                                      | Levels Strategy Plans 192931-073, 192931-074 and 192931-075 and RSVP Figure 7 demonstrate that this has been designed out.                                                                                                                        |
| <b>3.0 Cover System</b>                    | Cover system to be constructed by the ground workers and inspected by the Environmental Consultant                                                                                                                                                                                                                                                                                                                                                                                                                                  | Construction                   | Yes - 5 days' notice required                                      | Provenance of site won soils used to raise levels to be verified by the groundworks contractor. Placement of soils to be observed/inspected by Geo-Environmental. Thickness and construction of cover system to be verified by Geo-Environmental. |
| <b>4.0 Waste Management</b>                | Waste soils are not anticipated to be generated from the remedial strategy for the Horse Arena as there is a net requirement for suitable soils to be used as fill to raise ground levels. However, if any waste soils are generated, these will be disposed of appropriately with WAC testing undertaken once                                                                                                                                                                                                                      | Design and Construction        | No (unless further testing required where 5 days' notice required) | Chemical test results (WAC) only required if waste soils are generated.                                                                                                                                                                           |



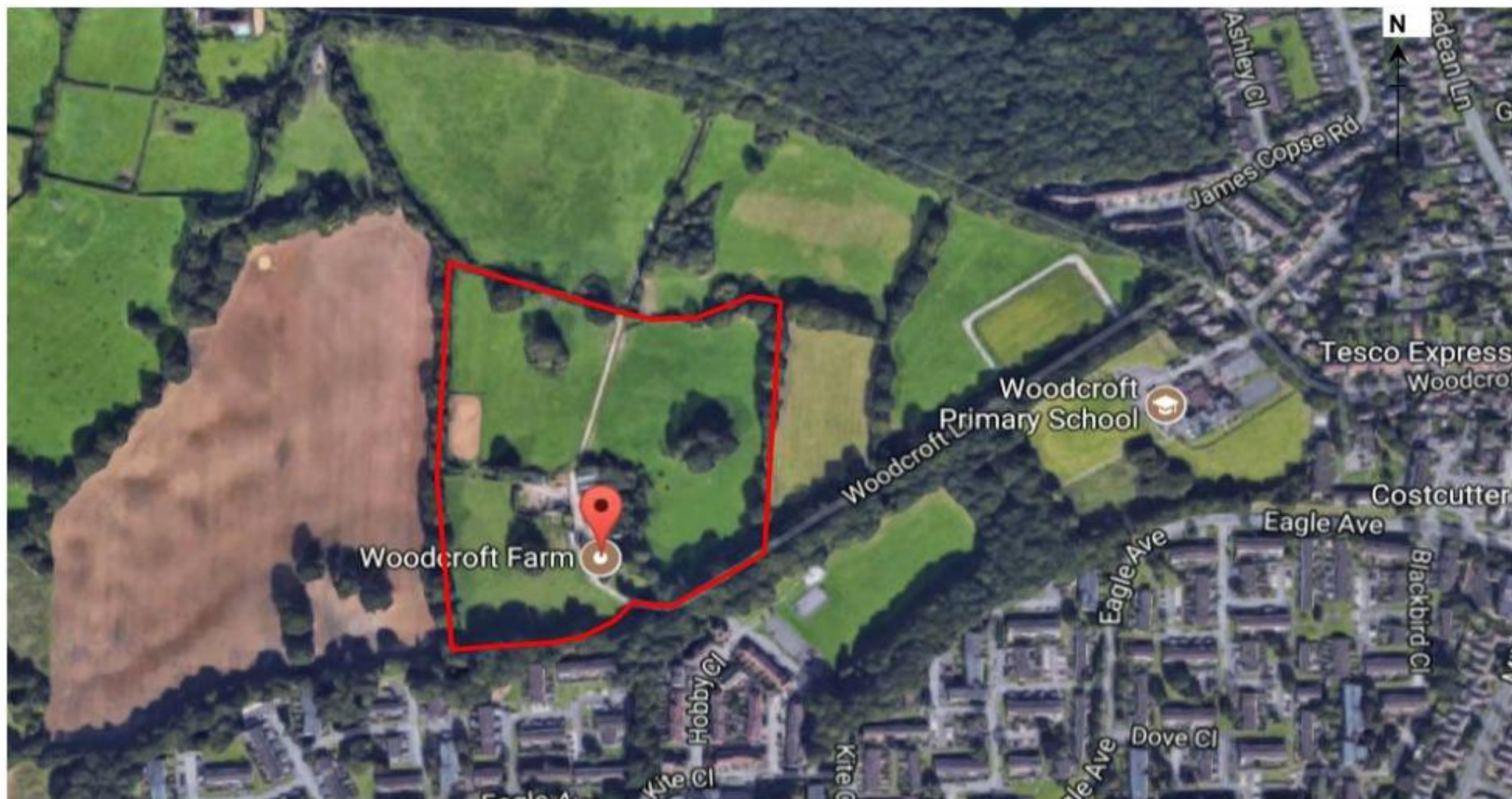
| Reference                 | Principal requirements                                                                                                                                                                                                                                                                                        | Design or construction related | Site visit required by Qualified Geo-Environmental Engineer | Supporting documentation                                                                                                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | soils for disposal have been identified. The results should be presented to the landfill site prior to removal for confirmation of the classification.                                                                                                                                                        |                                |                                                             |                                                                                                                                                                                                                                                                        |
|                           | Waste tickets for the removal of arisings should be compiled for submission as part of the verification report for each phase of the development. The waste tickets will be required to demonstrate that the approximate amount of material being removed is equal to the summed volume on the waste tickets. |                                |                                                             | Waste tickets                                                                                                                                                                                                                                                          |
|                           | Where it is demonstrated that there is a need for materials to be re-used on site and that the risk is acceptable, soils may be re-used on site under the Definition of Waste Code of Practice under a Materials Management Plan for the site.                                                                |                                |                                                             | Records of material movements on site to be provided for inclusion in the validation report. It is assumed that tracking of soil movements around the site will be recorded by the groundworks contractor, with periodic independent inspections by Geo-Environmental. |
| <b>5.0 Imported Soils</b> | In-situ testing of any soils imported onto site for landscaping purposes will be carried out after placement at a frequency of one sample per 50m <sup>3</sup> or one sample per landscaped area (whichever is the smallest) with comparison of results to assessment criteria for residential end use.       | Construction                   | Yes                                                         | Pre import certification verifying the chemical quality of the topsoil and subsoil to be provided to the Environmental Consultant for review prior to Importation.                                                                                                     |

Table 2 Details of verification visits required on site



## FIGURES





|          |                                   |           |              |                                                                                                                                                             |                                                                                                                |  |
|----------|-----------------------------------|-----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--|
| Project: | Woodcroft Farm, Lovedean, PO8 9QA |           |              | Title                                                                                                                                                       | Site Location Plan                                                                                             |  |
| Client:  | Vistry Homes Southern             |           |              | Geo-Environmental Services Ltd<br><br>Unit 7 Danworth Farm, Cuckfield Road<br><br>Hurstpierpoint, West Sussex BN6 9GL<br><br>+44(0)1273 832972 www.gesl.net | <br><br>Geo-Environmental |  |
| Ref No:  | GE16943                           | Revision: | 0            |                                                                                                                                                             |                                                                                                                |  |
| Drawn:   | FG                                | Date:     | 11/05/2018   |                                                                                                                                                             |                                                                                                                |  |
| Figure:  | 1                                 | Scale:    | Not To Scale |                                                                                                                                                             |                                                                                                                |  |



|          |                                   |           |              |                                                                                                                                                     |                                                                                                            |  |
|----------|-----------------------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--|
| Project: | Woodcroft Farm, Lovedean, PO8 9QA |           |              | Title                                                                                                                                               | Location of Horse Arena Area                                                                               |  |
| Client:  | Vistry Homes Southern             |           |              | Geo-Environmental Services Ltd<br>Unit 7 Danworth Farm, Cuckfield Road<br>Hurstpierpoint, West Sussex BN6 9GL<br><br>+44(0)1273 832972 www.gesl.net | <br>Geo-Environmental |  |
| Ref No:  | GE16943                           | Revision: | 0            |                                                                                                                                                     |                                                                                                            |  |
| Drawn:   | FG                                | Date:     | 25/06/2018   |                                                                                                                                                     |                                                                                                            |  |
| Figure:  | 2                                 | Scale:    | Not To Scale |                                                                                                                                                     |                                                                                                            |  |



|                 |                                   |                  |              |                                                                                                                                                                    |                                                                                                                       |  |
|-----------------|-----------------------------------|------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--|
| <b>Project:</b> | Woodcroft Farm, Lovedean, PO8 9QA |                  |              | <b>Title</b>                                                                                                                                                       | Exploratory Hole Locations - Horse Arena                                                                              |  |
| <b>Client:</b>  | Vistry Homes Southern             |                  |              | <b>Geo-Environmental Services Ltd</b><br><br>Unit 7 Danworth Farm, Cuckfield Road<br><br>Hurstpierpoint, West Sussex BN6 9GL<br><br>+44(0)1273 832972 www.gesl.net | <br><br><b>Geo-Environmental</b> |  |
| <b>Ref No:</b>  | GE16943                           | <b>Revision:</b> | 0            |                                                                                                                                                                    |                                                                                                                       |  |
| <b>Drawn:</b>   | FG                                | <b>Date:</b>     | 26/06/2018   |                                                                                                                                                                    |                                                                                                                       |  |
| <b>Figure:</b>  | 3                                 | <b>Scale:</b>    | Not To Scale |                                                                                                                                                                    |                                                                                                                       |  |

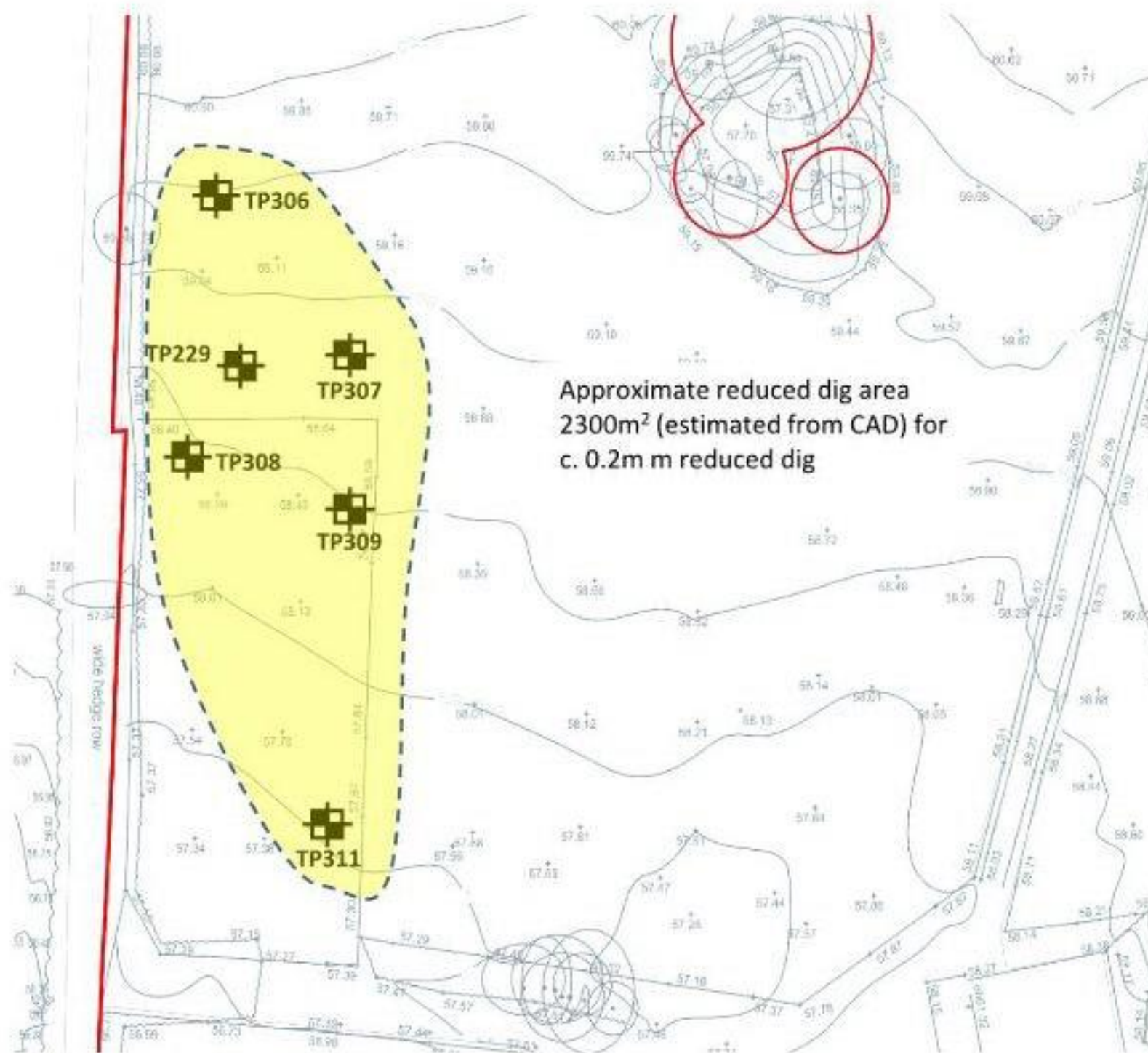


|                 |                                   |               |              |                                                                                                                                                                                                                                                                                                                       |                                            |  |
|-----------------|-----------------------------------|---------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--|
| <b>Project:</b> | Woodcroft Farm, Lovedean, PO8 9QA |               |              | <b>Title</b>                                                                                                                                                                                                                                                                                                          | Exploratory Hole Location Plan (main site) |  |
| <b>Client:</b>  | Vistry Homes Southern             |               |              | <div>Geo-Environmental Services Ltd</div> <div>Unit 7 Danworth Farm, Cuckfield Road</div> <div>Hurstpierpoint, West Sussex BN6 9GL</div> <div>+44(0)1273 832972 <a href="http://www.gesl.net">www.gesl.net</a></div> <div></div> |                                            |  |
| <b>Ref No:</b>  | GE16943                           | <b>Rev:</b>   | 0            |                                                                                                                                                                                                                                                                                                                       |                                            |  |
| <b>Drawn:</b>   | FG                                | <b>Date:</b>  | 26/06/2018   |                                                                                                                                                                                                                                                                                                                       |                                            |  |
| <b>Figure:</b>  | 4                                 | <b>Scale:</b> | Not To Scale |                                                                                                                                                                                                                                                                                                                       |                                            |  |

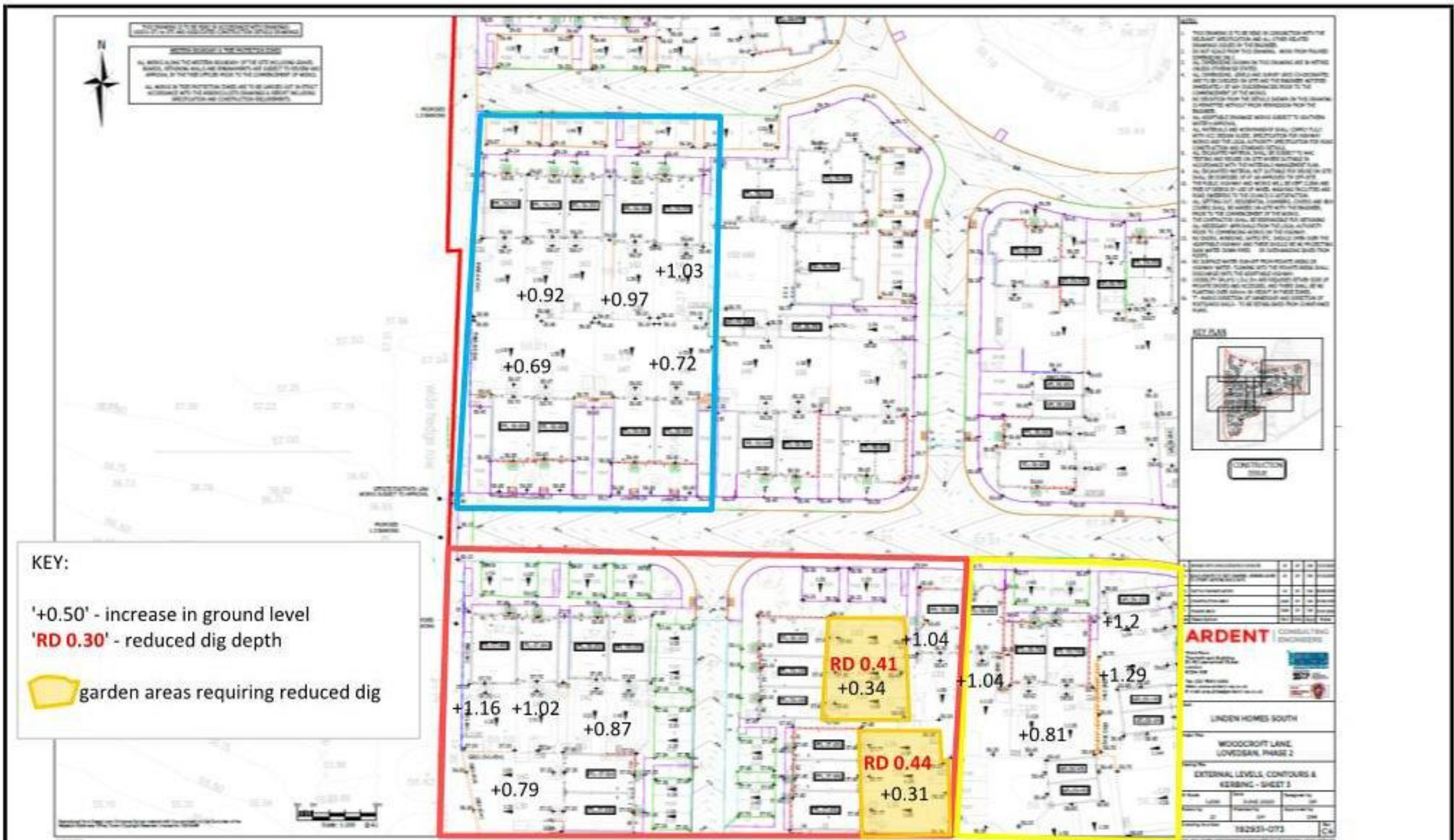




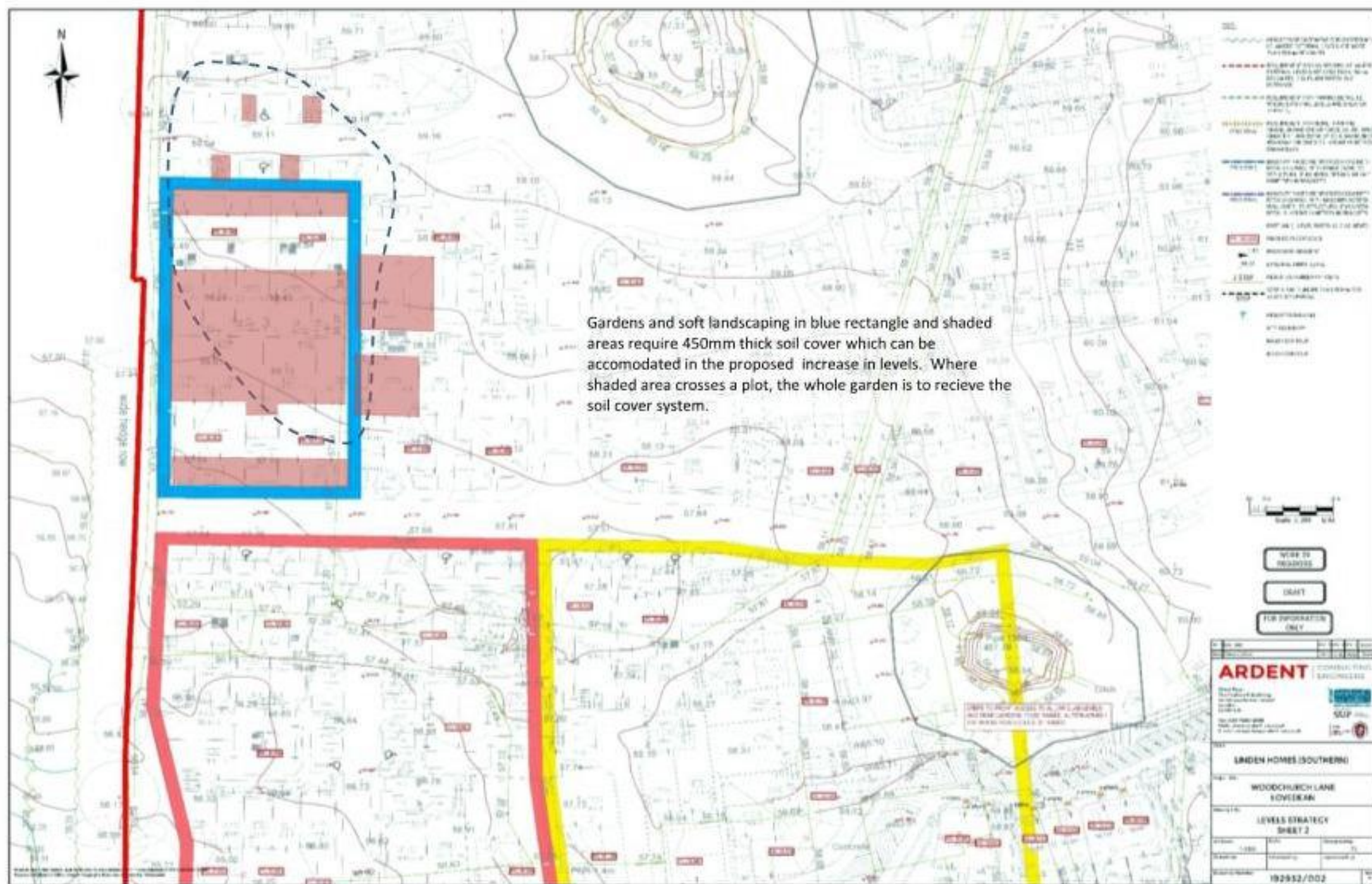
|                 |                                   |                  |              |                                                                                                                                                                    |                                            |                                                                                                                       |
|-----------------|-----------------------------------|------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Project:</b> | Woodcroft Farm, Lovedean, PO8 9QA |                  |              | <b>Title</b>                                                                                                                                                       | Soil Contaminant Exceedances - Horse Arena |                                                                                                                       |
| <b>Client:</b>  | Vistry Homes Southern             |                  |              | <b>Geo-Environmental Services Ltd</b><br><br>Unit 7 Danworth Farm, Cuckfield Road<br><br>Hurstpierpoint, West Sussex BN6 9GL<br><br>+44(0)1273 832972 www.gesl.net |                                            | <br><br><b>Geo-Environmental</b> |
| <b>Ref No:</b>  | GE16943                           | <b>Revision:</b> | 0            |                                                                                                                                                                    |                                            |                                                                                                                       |
| <b>Drawn:</b>   | FG                                | <b>Date:</b>     | 07/06/2018   |                                                                                                                                                                    |                                            |                                                                                                                       |
| <b>Figure:</b>  | 5                                 | <b>Scale:</b>    | Not To Scale |                                                                                                                                                                    |                                            |                                                                                                                       |



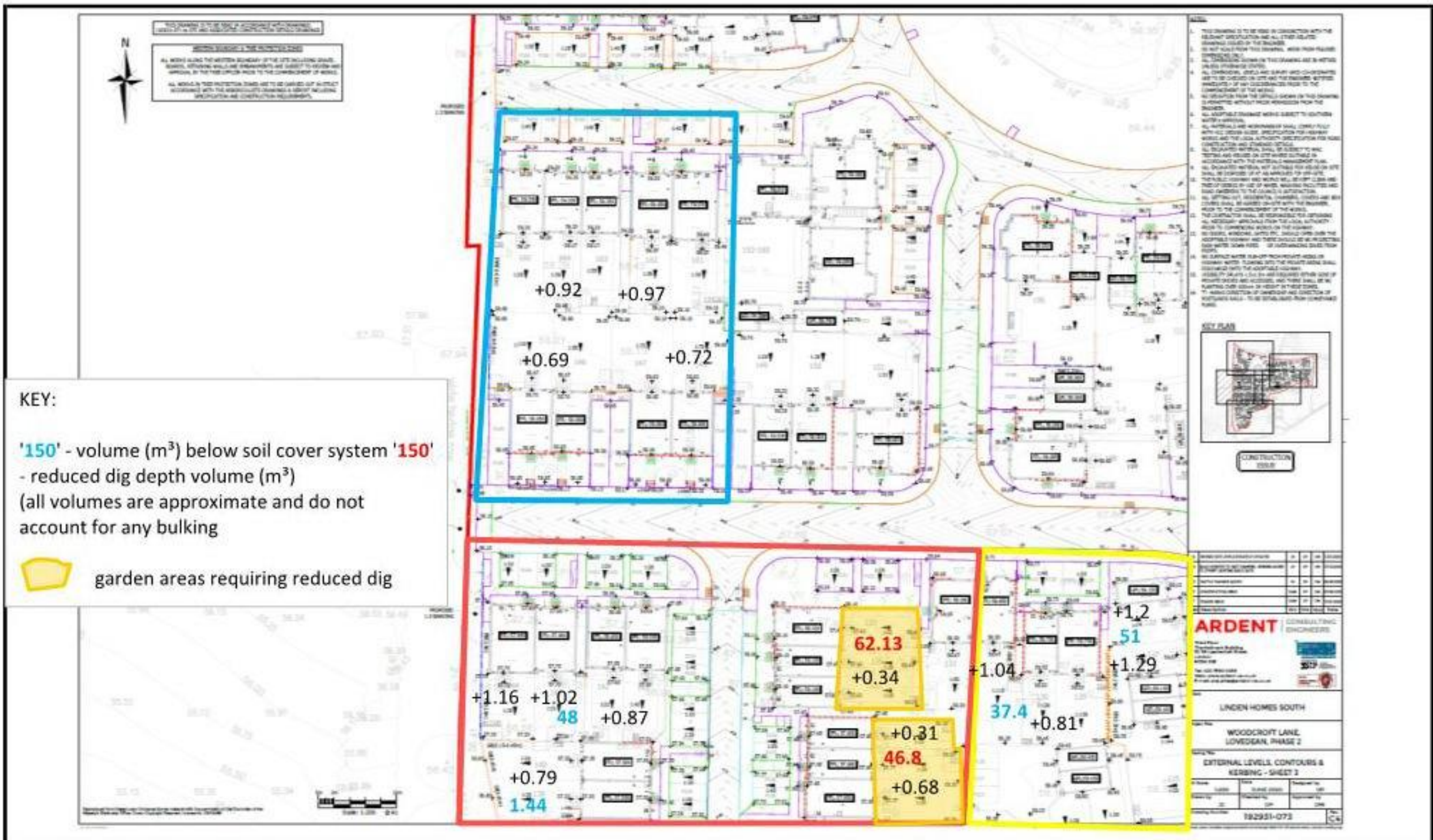
|                 |                                  |                  |              |                                                                                                                                                                                                      |                                                   |                                                                                                                       |
|-----------------|----------------------------------|------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Project:</b> | Woodcroft Farm, Lovedean PO8 9QA |                  |              | <b>Title</b>                                                                                                                                                                                         | Remedial Strategy Reduced dig areas - Horse Arena |                                                                                                                       |
| <b>Client:</b>  | Grainger PLC                     |                  |              | <b>Geo-Environmental Services Ltd</b><br><br>Unit 7 Danworth Farm, Cuckfield Road<br><br>Hurstpierpoint, West Sussex BN6 9GL<br><br>+44(0)1273 832972 <a href="http://www.gesl.net">www.gesl.net</a> |                                                   | <br><br><b>Geo-Environmental</b> |
| <b>Ref No:</b>  | GE16943                          | <b>Revision:</b> | 0            |                                                                                                                                                                                                      |                                                   |                                                                                                                       |
| <b>Drawn:</b>   | GR                               | <b>Date:</b>     | 12/02/2020   |                                                                                                                                                                                                      |                                                   |                                                                                                                       |
| <b>Figure:</b>  | 6                                | <b>Scale:</b>    | Not To Scale |                                                                                                                                                                                                      |                                                   |                                                                                                                       |



|                 |                                 |                  |              |                                                                                                                                                                    |                                                                                      |                                                                                                                   |  |
|-----------------|---------------------------------|------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| <b>Project:</b> | Woodcroft Farm Lovedean PO8 9QA |                  |              | <b>Title</b>                                                                                                                                                       | Development Levels Plan - Phase 3 Horse Arena, Chalk Pit and Farmyard (RSVP-HA-v5.0) |                                                                                                                   |  |
| <b>Client:</b>  | Vistry Homes Southern           |                  |              | <b>Geo-Environmental Services Ltd</b><br><br>Unit 7 Danworth Farm, Cuckfield Road<br><br>Hurstpierpoint, West Sussex BN6 9GL<br><br>+44(0)1273 832972 www.gesl.net |                                                                                      | <br><b>Geo-Environmental</b> |  |
| <b>Ref No:</b>  | GE16943                         | <b>Revision:</b> | 2            |                                                                                                                                                                    |                                                                                      |                                                                                                                   |  |
| <b>Drawn:</b>   | FG                              | <b>Date:</b>     | 17/12/2020   |                                                                                                                                                                    |                                                                                      |                                                                                                                   |  |
| <b>Figure:</b>  | RSVP-HA 7                       | <b>Scale:</b>    | Not To Scale |                                                                                                                                                                    |                                                                                      |                                                                                                                   |  |



|                 |                                  |                  |              |                                                                                                                                                                                                                                                                                                                                             |                              |  |
|-----------------|----------------------------------|------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|
| <b>Project:</b> | Woodcroft Farm, Lovedean PO8 9QA |                  |              | <b>Title</b>                                                                                                                                                                                                                                                                                                                                | Soil cover system plots plan |  |
| <b>Client:</b>  | Grainger PLC                     |                  |              | <div>Geo-Environmental Services Ltd</div> <div>Unit 7 Danworth Farm, Cuckfield Road</div> <div>Hurstpierpoint, West Sussex BN6 9GL</div> <div>+44(0)1273 832972 <a href="http://www.gesl.net">www.gesl.net</a></div> <div><br/>Geo-Environmental</div> |                              |  |
| <b>Ref No:</b>  | GE16943                          | <b>Revision:</b> | 1            |                                                                                                                                                                                                                                                                                                                                             |                              |  |
| <b>Drawn:</b>   | GR                               | <b>Date:</b>     | 27/03/2020   |                                                                                                                                                                                                                                                                                                                                             |                              |  |
| <b>Figure:</b>  | 8                                | <b>Scale:</b>    | Not To Scale |                                                                                                                                                                                                                                                                                                                                             |                              |  |
|                 |                                  |                  |              |                                                                                                                                                                                                                                                                                                                                             |                              |  |



|                                                 |                            |                                                                                                                                                                    |  |
|-------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Project:</b> Woodcroft Farm Lovedean PO8 9QA |                            | <b>Title:</b> Remediation Strategy Plan - Phase 3 Horse Arena, Chalk Pit & Farmyard Volumes (RSVP-HA-v5.0)                                                         |  |
| <b>Client:</b> Vistry Homes Southern            |                            | <b>Geo-Environmental Services Ltd</b><br><br>Unit 7 Danworth Farm, Cuckfield Road<br><br>Hurstpierpoint, West Sussex BN6 9GL<br><br>+44(0)1273 832972 www.gesl.net |  |
| <b>Ref No:</b> GE16943                          | <b>Revision:</b> 2         |                                                                                                                                                                    |  |
| <b>Drawn:</b> FG                                | <b>Date:</b> 17/12/2020    |                                                                                                                                                                    |  |
| <b>Figure:</b> RSVP-HA 9                        | <b>Scale:</b> Not To Scale |                                                                                                                                                                    |  |





## **APPENDIX A**

### **Exploratory Hole Logs and In-situ Test Results**



|                                                                                                                                                                       |  |                                                    |  |                                                                                                                                                                                                                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | TrialPit No<br><b>TP205</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                           |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16662                             |  | Co-ords: 468335.00 - 112129.00<br>Level: 69.34                                                                                                                                                                                                                                                        |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                                   |  |                                                    |  | Dimensions (m): <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative;"> <div style="position: absolute; top: 0; right: 0;">1.20</div> <div style="position: absolute; left: 0; bottom: 0;">0.60</div> </div> </div> |  |
| Client: Grainger PLC and Linden Homes South                                                                                                                           |  |                                                    |  | Depth<br>1.70                                                                                                                                                                                                                                                                                         |  |
| Scale<br>1:25                                                                                                                                                         |  | Logged<br>FG                                       |  |                                                                                                                                                                                                                                                                                                       |  |

| Water<br>Strike | Samples & In Situ Testing |              |         | Depth<br>(m) | Level<br>(m) | Legend                                                                                | Stratum Description                                                                                                                      |   |
|-----------------|---------------------------|--------------|---------|--------------|--------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type         | Results |              |              |                                                                                       |                                                                                                                                          |   |
|                 | 0.10                      | ES           |         | 0.25         | 69.09        |    | Grass over, Light brown sandy, gravelly CLAY, with frequent roots (2-4mm) and rootlets<br>TOPSOIL                                        |   |
|                 | 0.50<br>0.50<br>0.50      | B<br>D<br>ES |         |              |              |   | Firm orange and grey mottled slightly sandy CLAY with frequent roots (2-4mm) and rootlets. Sand is medium (large roots (7-10mm) at 0.4m) | 1 |
|                 | 1.00                      | D            |         | 1.20         | 68.14        |  | Firm orange and grey mottled slightly sandy CLAY with frequent rootlets. Sand is medium                                                  |   |
|                 |                           |              |         | 1.40         | 67.94        |  | Firm orange and grey mottled slightly sandy CLAY with red bandings of sandy clay and frequent rootlets. Sand is medium                   |   |
|                 | 1.70                      | D            |         | 1.70         | 67.64        |                                                                                       | End of Pit at 1.70m                                                                                                                      | 2 |
|                 |                           |              |         |              |              |                                                                                       |                                                                                                                                          | 3 |
|                 |                           |              |         |              |              |                                                                                       |                                                                                                                                          | 4 |
|                 |                           |              |         |              |              |                                                                                       |                                                                                                                                          | 5 |

|           |  |
|-----------|--|
| Remarks   |  |
| Stability |  |



|                                                                                                                                                                       |  |                                                    |  |                                                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | TrialPit No<br><b>TP206</b><br>Sheet 1 of 1                                                                                               |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16662                             |  | Co-ords: 468329.00 - 112033.00<br>Level: 66.23                                                                                            |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                                   |  |                                                    |  | Dimensions (m): <span style="display: inline-block; width: 100px; height: 40px; border: 1px solid black; vertical-align: middle;"></span> |  |
| Client: Grainger PLC and Linden Homes South                                                                                                                           |  |                                                    |  | Depth 1.80                                                                                                                                |  |
| Date<br>23/08/2017                                                                                                                                                    |  | Scale<br>1:25                                      |  | Logged<br>FG                                                                                                                              |  |

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                                | Stratum Description                                                                                                         |  |
|-----------------|---------------------------|------|---------|--------------|--------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--|
|                 | Depth                     | Type | Results |              |              |                                                                                       |                                                                                                                             |  |
|                 | 0.10                      | ES   |         | 0.25         | 65.98        |    | Grass over, Light brown sandy, gravelly CLAY, with frequent flint gravels and rootlets.                                     |  |
|                 |                           |      |         | 0.30         | 65.93        |                                                                                       | TOPSOIL                                                                                                                     |  |
|                 | 0.50                      | B    |         |              |              |    | Stiff orange and grey mottled sandy, gravelly CLAY with abundant roots (4-7mm). Sand is medium (Large roots (50mm) at 0.3m) |  |
|                 | 0.50                      | D    |         |              |              |                                                                                       | Firm orange and grey mottled very sandy CLAY with frequent roots (2-6mm). Sand is medium                                    |  |
|                 | 0.50                      | ES   |         | 0.60         | 65.63        |                                                                                       | Stiff orange and grey mottled slightly sandy CLAY with roots (2-4mm). Sand is medium                                        |  |
|                 | 1.00                      | D    |         | 1.20         | 65.03        |  | Stiff orange and grey mottled slightly sandy CLAY with red bandings of sandy clay and roots (2-4mm). Sand is medium         |  |
|                 | 1.80                      | D    |         | 1.80         | 64.43        |                                                                                       | End of Pit at 1.80m                                                                                                         |  |

|           |  |
|-----------|--|
| Remarks   |  |
| Stability |  |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP207  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468244.00 - 112050.00  
Level: 64.18

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

2.00

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                            |  |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|--------------------------------------------------------------------------------------------------------------------------------|--|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                |  |
|                 | 0.20                      | ES   |         | 0.20         | 63.98        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets and occasional flint gravel<br>TOPSOIL                    |  |
|                 | 0.30                      | ES   |         |              |              |        |                                                                                                                                |  |
|                 | 0.50                      | B    |         |              |              |        | Firm orange and grey mottled CLAY with occasional sandy red banding and rootlets (charcoal fragments at 1m and decaying roots) |  |
|                 | 0.80                      | D    |         |              |              |        |                                                                                                                                |  |
|                 |                           |      |         | 1.20         | 62.98        |        | Firm red and grey mottled slightly sandy CLAY (charcoal fragments at 1.4m)                                                     |  |
|                 |                           |      |         | 1.60         | 62.58        |        | Firm red and grey mottled sandy CLAY                                                                                           |  |
|                 | 2.00                      | D    |         | 2.00         | 62.18        |        | End of Pit at 2.00m                                                                                                            |  |

|           |           |
|-----------|-----------|
| Depth (m) | Level (m) |
|           |           |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP208  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468227.00 - 112031.00  
Level: 63.03

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

2.00

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                           |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                               |   |
|                 | 0.10                      | ES   |         | 0.15         | 62.88        |        | Grass over, Dark brown clayey sand with abundant tree roots (2-5mm) and rootlets (large tree root (50mm) at 0.15m)<br>TOPSOIL |   |
|                 | 0.50                      | D    |         |              |              |        | Firm orange brown sandy CLAY. Sand is fine to medium (large tree root (20mm) at 0.9m)                                         |   |
|                 | 1.00                      | D    |         | 1.10         | 61.93        |        | Stiff orange slightly sandy CLAY with abundant roots (between 2mm and 8mm). Sand is medium                                    | 1 |
|                 | 1.50                      | D    |         | 1.50         | 61.53        |        | Stiff grey and orange mottled slightly sandy CLAY with occasional roots between 2mm and 6mm (no roots from 1.7m)              |   |
|                 | 2.00                      | D    |         | 2.00         | 61.03        |        | End of Pit at 2.00m                                                                                                           | 2 |
|                 |                           |      |         |              |              |        |                                                                                                                               | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                               | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                               | 5 |

|           |              |
|-----------|--------------|
| Depth (m) | Water Strike |
|           |              |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP209  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468200.00 - 112025.00  
Level: 61.57

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

2.00

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                     |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                         |   |
|                 | 0.10                      | ES   |         |              |              |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets and occasional flint gravel<br>TOPSOIL                             |   |
|                 | 0.50                      | D    |         | 0.30         | 61.27        |        | Firm orange brown slightly gravelly CLAY with occasional cobbles of flint. Gravel is medium sub-angular of flint (roots (10mm) at 0.5m) |   |
|                 |                           |      |         | 0.80         | 60.77        |        | Firm orange brown slightly sandy CLAY with frequent cobbles of flint. Sand is medium                                                    | 1 |
|                 |                           |      |         | 1.50         | 60.07        |        | Firm orange and grey mottled slightly sandy CLAY. Sand is fine to medium                                                                |   |
|                 | 2.00                      | D    |         | 2.00         | 59.57        |        | End of Pit at 2.00m                                                                                                                     | 2 |
|                 |                           |      |         |              |              |        |                                                                                                                                         | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                                         | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                                         | 5 |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No

TP210

Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468151.00 - 112030.00  
Level: 58.51

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.40

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                            |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                |   |
|                 | 0.10                      | ES   |         | 0.15         | 58.36        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br><b>TOPSOIL</b>         |   |
|                 | 0.50                      | B    |         |              |              |        | Firm grey and orange mottled slightly sandy CLAY with rootlets. Sand is medium                 |   |
|                 | 1.00                      | D    |         | 0.90         | 57.61        |        | Firm grey and orange mottled slightly sandy CLAY. Sand is medium (charcoal fragments at 1.35m) | 1 |
|                 |                           |      |         | 1.40         | 57.11        |        | End of Pit at 1.40m                                                                            | 2 |
|                 |                           |      |         |              |              |        |                                                                                                | 3 |
|                 |                           |      |         |              |              |        |                                                                                                | 4 |
|                 |                           |      |         |              |              |        |                                                                                                | 5 |

|       |       |      |
|-------|-------|------|
| Depth | Width | Area |
|       |       |      |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP211  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468148.00 - 112098.00  
Level: 58.65

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.30

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|----------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                    |   |
|                 | 0.10                      | ES   |         | 0.10         | 58.55        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL                    |   |
|                 |                           |      |         | 0.30         | 58.35        |        | Brown sandy clay with flint cobbles, chalk fragments and occasional brick fragments<br>MADE GROUND |   |
|                 | 0.50                      | D    |         |              |              |        | Firm brown slightly sandy CLAY with occasional rootlets. Sand is medium                            |   |
|                 |                           |      |         | 0.80         | 57.85        |        | Firm red brown sandy CLAY. Sand is medium                                                          |   |
|                 | 1.00                      | D    |         |              |              |        |                                                                                                    | 1 |
|                 |                           |      |         | 1.30         | 57.35        |        | End of Pit at 1.30m                                                                                |   |
|                 |                           |      |         |              |              |        |                                                                                                    | 2 |
|                 |                           |      |         |              |              |        |                                                                                                    | 3 |
|                 |                           |      |         |              |              |        |                                                                                                    | 4 |
|                 |                           |      |         |              |              |        |                                                                                                    | 5 |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP212  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468050.00 - 112055.00  
Level: 57.68

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Depth  
1.40

0.60

Scale  
1:25

Logged  
FG

Client: Grainger PLC and Linden Homes South

| Water<br>Strike | Samples & In Situ Testing |        |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                           |
|-----------------|---------------------------|--------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------------------------------------|
|                 | Depth                     | Type   | Results |              |              |        |                                                                                                               |
|                 | 0.20                      | ES     |         | 0.15         | 57.53        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL                               |
|                 |                           |        |         | 0.35         | 57.33        |        | Soft orange brown very sandy CLAY with occasional sub-angular flint gravel. Sand is medium                    |
|                 | 0.50<br>0.50              | B<br>D |         |              |              |        | Firm orange brown CLAY with frequent flint cobbles and chalk fragments                                        |
|                 | 0.80                      | D      |         |              |              |        |                                                                                                               |
|                 | 1.10                      | D      |         | 1.10         | 56.58        |        | Structureless CHALK composed of: medium to coarse sub-angular white GRAVEL. Fragments are weak CIRIA Grade DM |
|                 |                           |        |         | 1.40         | 56.28        |        | End of Pit at 1.40m                                                                                           |

|       |       |      |
|-------|-------|------|
| Depth | Width | Area |
|       |       |      |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP213  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468023.00 - 112009.00  
Level: 56.66

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.20

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                          |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|----------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                              |   |
|                 | 0.10                      |      |         | 0.10         | 56.56        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets                         |   |
|                 | 0.20                      |      |         | 0.20         | 56.46        |        | TOPSOIL                                                                                      |   |
|                 | 0.50                      | B    |         |              |              |        | Brown sandy clay with brick fragments and chalk gravel                                       |   |
|                 | 0.50                      | D    |         |              |              |        | MADE GROUND                                                                                  |   |
|                 |                           |      |         |              |              |        | Stiff light brown gravelly CLAY                                                              |   |
|                 |                           |      |         |              |              |        | MADE GROUND                                                                                  |   |
|                 | 0.80                      |      |         | 0.80         | 55.86        |        | Brown sandy clay with brick, concrete fragments, possible asbestos tiles, and decaying roots | 1 |
|                 | 1.00                      | ES   |         |              |              |        | MADE GROUND                                                                                  |   |
|                 | 1.70                      |      |         | 1.70         | 54.96        |        | Soft light grey CLAY (decaying root (3mm) at 2m)                                             |   |
|                 | 2.00                      | D    |         |              |              |        |                                                                                              | 2 |
|                 | 2.20                      |      |         | 2.20         | 54.46        |        | End of Pit at 2.20m                                                                          | 3 |
|                 |                           |      |         |              |              |        |                                                                                              | 4 |
|                 |                           |      |         |              |              |        |                                                                                              | 5 |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP214  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468056.00 - 112002.00  
Level: 57.16

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                              |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|--------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                  |   |
|                 | 0.10                      |      |         | 0.10         | 57.06        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets                             |   |
|                 | 0.20                      |      |         | 0.20         | 56.96        |        | TOPSOIL                                                                                          |   |
|                 |                           |      |         |              |              |        | Brown clay with bricks and chalk cobbles                                                         |   |
|                 |                           |      |         |              |              |        | MADE GROUND                                                                                      |   |
|                 | 0.50                      | B    |         |              |              |        | Firm light brown and grey mottled CLAY, with frequent flint gravel (decaying root (4mm) at 0.5m) |   |
|                 | 0.50                      | D    |         |              |              |        | MADE GROUND                                                                                      |   |
|                 | 0.90                      | ES   |         | 0.90         | 56.26        |        | Dark brown clay with ashy deposits, plastic, brick fragments, chalk gravel, and wood             | 1 |
|                 |                           |      |         |              |              |        | MADE GROUND                                                                                      |   |
|                 | 1.90                      |      |         | 1.90         | 55.26        |        | Firm light brown and grey mottled CLAY                                                           | 2 |
|                 | 2.00                      | D    |         | 2.00         | 55.16        |        | End of Pit at 2.00m                                                                              | 2 |
|                 |                           |      |         |              |              |        |                                                                                                  | 3 |
|                 |                           |      |         |              |              |        |                                                                                                  | 4 |
|                 |                           |      |         |              |              |        |                                                                                                  | 5 |

|       |           |
|-------|-----------|
| Photo | Remarks   |
| Depth | Stability |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

TrialPit No  
TP215  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468082.00 - 111995.00  
Level: 57.87

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.90

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |        |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                    |   |
|-----------------|---------------------------|--------|---------|--------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type   | Results |              |              |        |                                                                                                                                        |   |
|                 | 0.30                      | ES     |         |              |              |        | Ashy deposits overlying brown gravelly clay with bricks, concrete, flint cobbles, tarmac and chalk fragments<br>MADE GROUND            |   |
|                 |                           |        |         | 1.00         | 56.87        |        | Soft orange brown sandy re-worked CLAY<br>MADE GROUND                                                                                  | 1 |
|                 |                           |        |         | 1.70         | 56.17        |        | Structureless CHALK composed of: medium to coarse sub-angular white sandy GRAVEL, sand is medium and fragments are weak CIRIA Grade DM | 2 |
|                 |                           |        |         | 2.30         | 55.57        |        | Structureless CHALK composed of: medium to coarse sub-angular white sandy GRAVEL, fragments are weak CIRIA Grade DM                    |   |
|                 | 2.90<br>2.90              | D<br>D |         | 2.90         | 54.97        |        | End of Pit at 2.90m                                                                                                                    | 3 |
|                 |                           |        |         |              |              |        |                                                                                                                                        | 4 |
|                 |                           |        |         |              |              |        |                                                                                                                                        | 5 |

|           |           |           |
|-----------|-----------|-----------|
| Depth (m) | Level (m) | Remarks   |
|           |           | Stability |



|                                                                                                                                                                       |  |                        |  |                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|---------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | Trial Pit Log          |  | Trial Pit No<br><b>TP216</b><br>Sheet 1 of 1            |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16662 |  | Co-ords: 468060.00 - 111982.00<br>Level: 56.78          |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                                   |  |                        |  | Dimensions (m): <span style="float: right;">1.20</span> |  |
| Client: Grainger PLC and Linden Homes South                                                                                                                           |  |                        |  | Depth 1.00 <span style="float: right;">0.60</span>      |  |
|                                                                                                                                                                       |  |                        |  | Scale<br>1:25<br>Logged<br>FG                           |  |

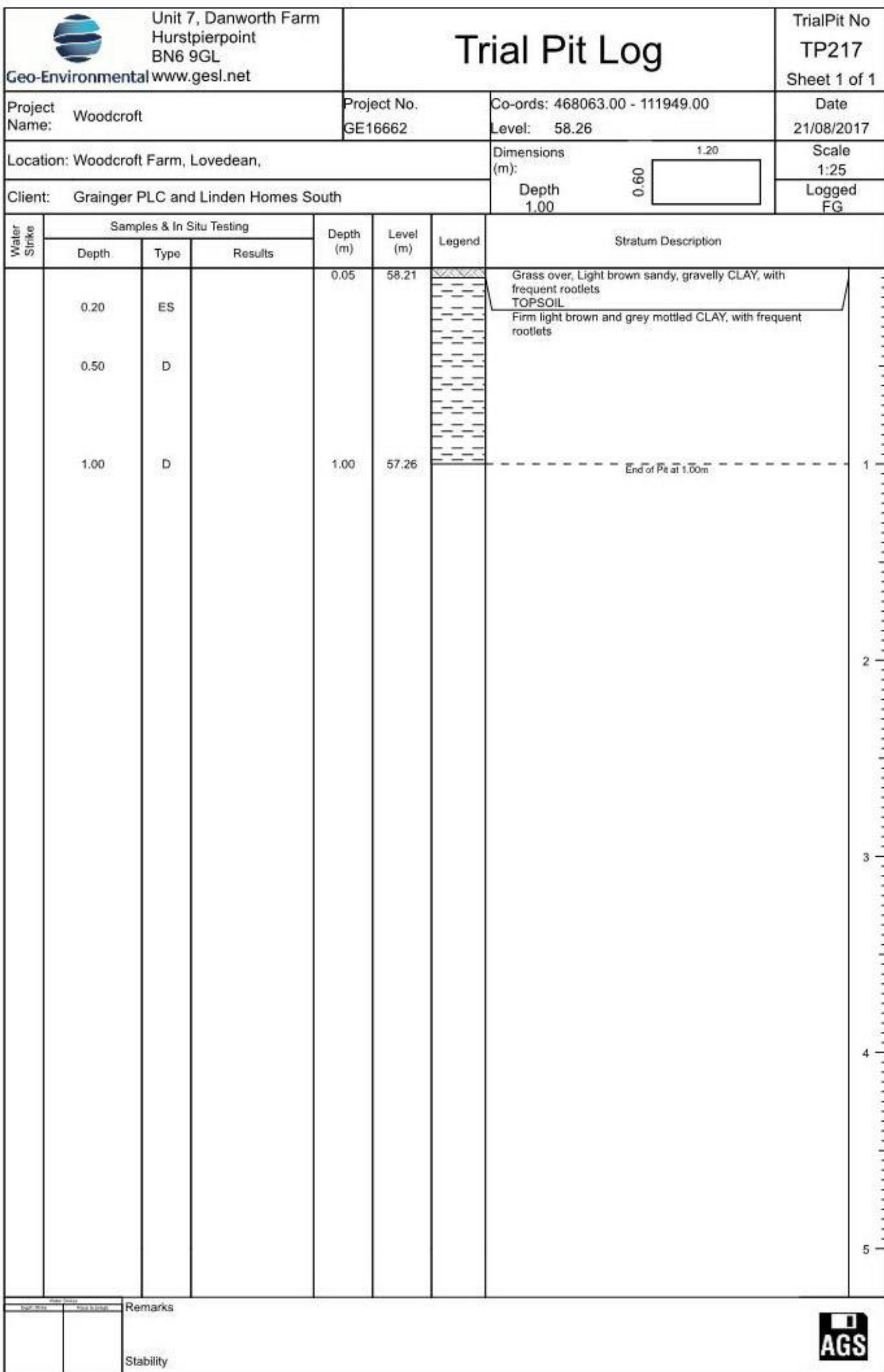
  

| Water<br>Strike     | Samples & In Situ Testing |              |         | Depth<br>(m) | Level<br>(m) | Legend                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stratum Description |
|---------------------|---------------------------|--------------|---------|--------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|                     | Depth                     | Type         | Results |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
|                     |                           |              |         | 0.10         | 56.68        | <br>Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br><b>TOPSOIL</b><br><br>Brown sandy clay with charcoal and brick fragments<br><b>MADE GROUND</b><br><br>Firm light brown and grey mottled gravelly CLAY. Gravel is medium, sub angular of flint |                     |
|                     |                           |              |         | 0.20         | 56.58        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
|                     | 0.50<br>0.50<br>0.60      | B<br>D<br>ES |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
|                     | 1.00                      | D            |         | 1.00         | 55.78        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
| End of Pit at 1.00m |                           |              |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
|                     |                           |              |         |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Photo taken<br><input type="checkbox"/> | Photo taken<br><input type="checkbox"/> |
|-----------------------------------------|-----------------------------------------|

|         |           |
|---------|-----------|
| Remarks | Stability |
|---------|-----------|





# Trial Pit Log

|               |           |
|---------------|-----------|
| Project Name: | Woodcroft |
|---------------|-----------|

|             |         |
|-------------|---------|
| Project No. | GE16662 |
|-------------|---------|

Co-ords: 468068.00 - 111932.00  
Level: 58.52

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean.

Dimensions  
(m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
0.90

0.60

Logged  
FG

[illegible]



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP219  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468127.00 - 111929.00  
Level: 59.42

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                 |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-----------------------------------------------------------------------------------------------------|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                     |
|                 | 0.20                      |      |         | 0.20         | 59.22        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets and chalk fragments<br>TOPSOIL |
|                 | 0.50                      | D    |         |              |              |        | Firm light brown and grey mottled CLAY                                                              |
|                 | 1.00                      | D    |         | 1.00         | 58.42        |        |                                                                                                     |
|                 | 1.00                      | ES   |         |              |              |        |                                                                                                     |
|                 |                           |      |         |              |              |        | End of Pit at 1.00m                                                                                 |

|           |         |
|-----------|---------|
| Notes     | Remarks |
| Stability |         |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP220  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468116.00 - 111958.00  
Level: 59.41

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

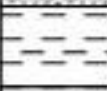
Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |         |         | Depth<br>(m) | Level<br>(m) | Legend                                                                               | Stratum Description                                                                |   |
|-----------------|---------------------------|---------|---------|--------------|--------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type    | Results |              |              |                                                                                      |                                                                                    |   |
|                 | 0.20                      | ES      |         |              |              |   | Grass over, dark brown gravelly clay with chalk and brick fragments<br>MADE GROUND |   |
|                 |                           |         |         | 0.60         | 58.81        |   | Soft brown and grey mottled CLAY                                                   |   |
|                 | 1.00<br>1.00              | D<br>ES |         | 0.80         | 58.61        |  | Firm brown and grey mottled CLAY, with red sandy banding at 1.5m                   | 1 |
|                 |                           |         |         | 2.00         | 57.41        |                                                                                      | End of Pit at 2.00m                                                                | 2 |
|                 |                           |         |         |              |              |                                                                                      |                                                                                    | 3 |
|                 |                           |         |         |              |              |                                                                                      |                                                                                    | 4 |
|                 |                           |         |         |              |              |                                                                                      |                                                                                    | 5 |

|       |       |      |
|-------|-------|------|
| Depth | Width | Area |
|       |       |      |

Remarks

Stability



# Trial Pit Log

Project Name: Woodcroft

|             |
|-------------|
| Project No. |
| GE16662     |

Co-ords: 468161.00 - 111926.00  
Level: 60.74

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean.

Dimensions  
(m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.20

0.60

|              |
|--------------|
| Logged<br>FG |
|--------------|

[illegible]



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP222  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468221.00 - 111986.00  
Level: 61.18

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.50

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                               |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                   |   |
|                 | 0.25                      |      |         | 0.25         | 60.93        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL                                   |   |
|                 | 0.40                      | ES   |         | 0.50         | 60.68        |        | Firm orange brown slightly sandy CLAY with occasional flint gravels and roots (1-2mm). Sandy is medium            |   |
|                 | 1.00                      | D    |         | 1.00         | 60.18        |        | Firm orange brown slightly sandy CLAY with occasional flint gravels. Sandy is medium                              | 1 |
|                 |                           |      |         | 1.50         | 59.68        |        | Stiff orange brown slightly sandy, slightly gravelly CLAY. Sand is medium, gravel is medium, sub-angular of flint |   |
|                 |                           |      |         |              |              |        | End of Pit at 1.50m                                                                                               |   |
|                 |                           |      |         |              |              |        |                                                                                                                   | 2 |
|                 |                           |      |         |              |              |        |                                                                                                                   | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                   | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                   | 5 |

|           |       |         |
|-----------|-------|---------|
| Depth     | Width | Remarks |
|           |       |         |
| Stability |       |         |



# Trial Pit Log

|               |           |
|---------------|-----------|
| Project Name: | Woodcroft |
|---------------|-----------|

|             |
|-------------|
| Project No. |
| GE16662     |

Co-ords: 468126.00 - 111996.00  
Level: 58.54

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean.

Dimensions  
(m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.10

0.60

| Logged<br>FG |
|--------------|
|--------------|

[illegible]



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP224  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468077.00 - 112011.00  
Level: 57.74

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.20

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |        |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                               |
|-----------------|---------------------------|--------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------|
|                 | Depth                     | Type   | Results |              |              |        |                                                                                                                   |
|                 | 0.20                      | ES     |         |              |              |        | Ashy deposits overlying brown gravelly clay with bricks, flint cobbles, chalk fragments and tarmac<br>MADE GROUND |
|                 |                           |        |         | 0.70         | 57.04        |        | Soft blue grey re-worked CLAY with bricks<br>MADE GROUND                                                          |
|                 |                           |        |         | 1.60         | 56.14        |        | Firm grey brown CLAY (Large flint cobble at 1.8m)                                                                 |
|                 | 2.20<br>2.20              | D<br>D |         | 2.20         | 55.54        |        | End of Pit at 2.20m                                                                                               |

|       |       |      |
|-------|-------|------|
| Depth | Width | Area |
|       |       |      |

Remarks

Stability



# Trial Pit Log

Project Name: Woodcroft

|             |
|-------------|
| Project No. |
| GE16662     |

Co-ords: 468112.00 - 111991.00  
Level: 58.45

Date  
23/08/2017

Location: Woodcroft Farm, Lovedean.

Dimensions  
(m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
0.60

0.6

| Logged<br>FG |
|--------------|
|--------------|

[illegible]



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP226  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468103.00 - 112028.00  
Level: 57.24

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.10

0.60

Logged  
FG

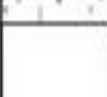
| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                    |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                        |   |
|                 | 0.10                      | ES   |         | 0.20         | 57.04        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL                                        |   |
|                 | 0.40                      | D    |         |              |              |        | Firm orange brown slightly sandy CLAY. Sand is medium                                                                  |   |
|                 |                           |      |         | 0.80         | 56.44        |        | Firm orange brown slightly sandy CLAY with frequent cobbles of flint and occasional charcoal fragments. Sand is medium | 1 |
|                 |                           |      |         | 1.10         | 56.14        |        | End of Pit at 1.10m                                                                                                    | 2 |
|                 |                           |      |         |              |              |        |                                                                                                                        | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                        | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                        | 5 |

|       |       |      |
|-------|-------|------|
| Depth | Width | Area |
|       |       |      |

Remarks

Stability



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                     |                           | Trial Pit Log            |         | Trial Pit No<br><b>TP227</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |              |                                                                                      |                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                                   |                           | Project No. GE16662      |         | Co-ords: 468105.00 - 112061.00<br>Level: 57.53                                                                                                                                                                                                                                                |              |                                                                                      |                                                                                                                             |
| Location: Woodcroft Farm, Lovedean,                                                                                                                                                                                                                       |                           |                          |         | Dimensions (m): <span style="float: right;">1.20</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |                                                                                      |                                                                                                                             |
| Client: Grainger PLC and Linden Homes South                                                                                                                                                                                                               |                           |                          |         | Depth 1.00<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |                                                                                      |                                                                                                                             |
| Water<br>Strike                                                                                                                                                                                                                                           | Samples & In Situ Testing |                          |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                               | Stratum Description                                                                                                         |
|                                                                                                                                                                                                                                                           | Depth                     | Type                     | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                             |
|                                                                                                                                                                                                                                                           | 0.10                      | ES                       |         |                                                                                                                                                                                                                                                                                               |              |   | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL                                             |
|                                                                                                                                                                                                                                                           | 0.40                      | D                        |         | 0.25                                                                                                                                                                                                                                                                                          | 57.28        |   | Firm orange brown slightly sandy, slightly gravelly CLAY. Sand is medium and gravel is fine to medium, sub-angular of flint |
|                                                                                                                                                                                                                                                           |                           |                          |         | 0.70                                                                                                                                                                                                                                                                                          | 56.83        |   | Firm orange brown CLAY                                                                                                      |
|                                                                                                                                                                                                                                                           |                           |                          |         | 0.90                                                                                                                                                                                                                                                                                          | 56.63        |  | Structureless CHALK composed of: medium to coarse sub-angular white GRAVEL. Fragments are weak CIRIA Grade DM               |
|                                                                                                                                                                                                                                                           |                           |                          |         | 1.00                                                                                                                                                                                                                                                                                          | 56.53        |                                                                                      | End of Pit at 1.00m                                                                                                         |
|                                                                                                                                                                                                                                                           |                           |                          |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                             |
| <div style="display: flex; align-items: center;"> <div style="width: 100px; height: 100px; border: 1px solid black; margin-right: 10px;"></div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">1<br/>2<br/>3<br/>4<br/>5</div> </div> |                           |                          |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                             |
| Photo Slips<br>Depth: _____<br>Date: _____                                                                                                                                                                                                                |                           | Remarks<br><br>Stability |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                             |



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP228  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468169.00 - 112048.00  
Level: 60.35

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.70

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                    |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|----------------------------------------------------------------------------------------|
|                 | Depth                     | Type | Results |              |              |        |                                                                                        |
|                 | 0.15                      | ES   |         | 0.25         | 60.10        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL        |
|                 | 0.50                      | D    |         |              |              |        | Soft brown orange sandy CLAY with occasional flint gravel and rootlets. Sand is medium |
|                 | 1.20                      | D    |         | 1.10         | 59.25        |        | Yellow fine medium SAND                                                                |
|                 |                           |      |         | 1.70         | 58.65        |        | End of Pit at 1.70m                                                                    |

|           |       |         |
|-----------|-------|---------|
| Depth     | Water | Remarks |
|           |       |         |
| Stability |       |         |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP229  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468030.00 - 112090.00  
Level: 58.55

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Depth  
1.80

0.60

Scale  
1:25

Logged  
FG

Client: Grainger PLC and Linden Homes South

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                             |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                 |   |
|                 | 0.60                      | D    |         | 0.60         | 57.95        |        | Grass over, Orange brown sandy CLAY with frequent rootlets<br>TOPSOIL           |   |
|                 | 0.60                      | ES   |         | 0.80         | 57.75        |        | Firm orange brown very sandy CLAY with occasional flint cobbles. Sand is medium |   |
|                 | 1.00                      | D    |         | 1.40         | 57.15        |        | Firm orange brown CLAY with occasional flint cobbles                            | 1 |
|                 | 1.50                      | D    |         | 1.80         | 56.75        |        | Firm grey slightly sandy CLAY with frequent cobbles of flint. Sand is medium    |   |
|                 |                           |      |         |              |              |        | End of Pit at 1.80m                                                             | 2 |
|                 |                           |      |         |              |              |        |                                                                                 | 3 |
|                 |                           |      |         |              |              |        |                                                                                 | 4 |
|                 |                           |      |         |              |              |        |                                                                                 | 5 |

Remarks

Stability



|                                                                                                                                                                             |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net       |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | Trial Pit No<br><b>TP230</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
| Project Name: Woodcroft                                                                                                                                                     |                           | Project No.<br>GE16662                             |         | Co-ords: 468086.00 - 112103.00<br>Level: 59.34                                                                                                                                                                                                                                                |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
| Location: Woodcroft Farm, Lovedean,                                                                                                                                         |                           |                                                    |         | Dimensions (m): <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> <div style="margin-left: 10px;">1.20</div> </div> |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
| Client: Grainger PLC and Linden Homes South                                                                                                                                 |                           |                                                    |         | Depth<br>1.20                                                                                                                                                                                                                                                                                 |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
| Water<br>Strike                                                                                                                                                             | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m)        | Legend                                                                                                                                                                                                                          | Stratum Description                                                                                                                                                                                               |
|                                                                                                                                                                             | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
|                                                                                                                                                                             |                           |                                                    |         | 0.15                                                                                                                                                                                                                                                                                          | 59.19               |  Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br><b>TOPSOIL</b><br>Soft orange brown very sandy CLAY. Sand is medium | <div style="margin-bottom: 10px;">1</div> <div style="margin-bottom: 10px;">2</div> <div style="margin-bottom: 10px;">3</div> <div style="margin-bottom: 10px;">4</div> <div style="margin-bottom: 10px;">5</div> |
|                                                                                                                                                                             | 0.30                      | ES                                                 |         |                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
|                                                                                                                                                                             | 0.50                      | D                                                  |         |                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
|                                                                                                                                                                             |                           |                                                    |         | 0.70                                                                                                                                                                                                                                                                                          | 58.64               |  Firm grey and orange mottled CLAY with frequent flint cobbles                                                                              |                                                                                                                                                                                                                   |
|                                                                                                                                                                             | 1.10                      | D                                                  |         |                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
|                                                                                                                                                                             |                           |                                                    | 1.20    | 58.14                                                                                                                                                                                                                                                                                         | End of Pit at 1.20m |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
| <div style="display: flex;"> <div style="border: 1px solid black; width: 50px; height: 20px; margin-right: 5px;"></div> <div>             Remarks           </div> </div>   |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |
| <div style="display: flex;"> <div style="border: 1px solid black; width: 50px; height: 20px; margin-right: 5px;"></div> <div>             Stability           </div> </div> |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |                     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP231  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468130.00 - 112119.00  
Level: 59.64

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.20

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                       |
|                 | 0.20                      |      |         | 0.20         | 59.44        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL                       |
|                 | 0.40                      | ES   |         | 0.60         | 59.04        |        | Soft orange brown very gravelly sandy CLAY. Gravel is medium, sub-angular of flint and sand is medium |
|                 | 0.80                      | D    |         | 1.20         | 58.44        |        | Firm orange brown slightly sandy CLAY with occasional rootlets. Sand is medium                        |
|                 |                           |      |         |              |              |        | End of Pit at 1.20m                                                                                   |

|       |       |      |
|-------|-------|------|
| Depth | Width | Area |
|       |       |      |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP232  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468210.00 - 112065.00  
Level: 62.16

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.30

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                             |                  |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------|------------------|
|                 | Depth                     | Type | Results |              |              |        |                                                                                 |                  |
|                 | 0.10                      | ES   |         |              |              |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL |                  |
|                 |                           |      |         | 0.30         | 61.86        |        | Firm orange and grey mottled slightly sandy CLAY. Sand is fine to medium        |                  |
|                 | 0.80                      | D    |         | 0.70         | 61.46        |        | Firm orange and grey mottled sandy CLAY. Sand is fine to medium                 | 1                |
|                 |                           |      |         | 1.30         | 60.86        |        | End of Pit at 1.30m                                                             | 2<br>3<br>4<br>5 |

|       |       |      |
|-------|-------|------|
| Depth | Width | Area |
|       |       |      |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP233  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468228.00 - 112111.00  
Level: 64.08

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.10

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |          |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                |   |
|-----------------|---------------------------|----------|---------|--------------|--------------|--------|------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type     | Results |              |              |        |                                                                                    |   |
|                 |                           |          |         | 0.30         | 63.78        |        | Grass over, Brown sandy, gravelly CLAY with frequent roots and rootlets<br>TOPSOIL |   |
|                 | 0.40<br>0.40              | ES<br>ES |         |              |              |        | Firm orange brown gravelly CLAY. Gravel is medium to coarse sub-angular of flint   |   |
|                 | 0.80                      | D        |         | 0.65         | 63.43        |        | Stiff grey and orange mottled CLAY with occasional red bands of sandy CLAY         |   |
|                 |                           |          |         | 1.10         | 62.98        |        | End of Pit at 1.10m                                                                |   |
|                 |                           |          |         |              |              |        |                                                                                    | 1 |
|                 |                           |          |         |              |              |        |                                                                                    | 2 |
|                 |                           |          |         |              |              |        |                                                                                    | 3 |
|                 |                           |          |         |              |              |        |                                                                                    | 4 |
|                 |                           |          |         |              |              |        |                                                                                    | 5 |
| Remarks         |                           |          |         |              |              |        |                                                                                    |   |
| Stability       |                           |          |         |              |              |        |                                                                                    |   |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

TrialPit No  
TP234  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468242.00 - 112136.00  
Level: 65.41

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                           |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-----------------------------------------------------------------------------------------------|
|                 | Depth                     | Type | Results |              |              |        |                                                                                               |
|                 | 0.30                      | ES   |         | 0.20         | 65.21        |        | Grass over, Brown sandy, gravelly CLAY with frequent roots and rootlets<br>TOPSOIL            |
|                 |                           |      |         | 0.45         | 64.96        |        | Firm brown very gravelly CLAY. Gravel is medium to coarse sub-angular of flint                |
|                 | 1.00                      | D    |         | 1.00         | 64.41        |        | Stiff orange and grey mottled CLAY (Large tree root (70mm) at 0.7m and tree root (4mm) at 1m) |
|                 |                           |      |         |              |              |        | End of Pit at 1.00m                                                                           |

|           |           |           |
|-----------|-----------|-----------|
| Depth (m) | Level (m) | Remarks   |
|           |           | Stability |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP235  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468165.00 - 112133.00  
Level: 60.77

Date  
22/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
2.20

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |         |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                             |   |
|-----------------|---------------------------|---------|---------|--------------|--------------|--------|---------------------------------------------------------------------------------|---|
|                 | Depth                     | Type    | Results |              |              |        |                                                                                 |   |
|                 | 0.25                      |         |         | 0.25         | 60.52        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL |   |
|                 | 0.50<br>0.50              | D<br>ES |         |              |              |        | Orange brown clayey medium SAND with occasional flint gravel                    |   |
|                 | 1.00                      | D       |         |              |              |        |                                                                                 | 1 |
|                 |                           |         |         | 1.80         | 58.97        |        | Grey and orange fine to medium SAND                                             | 2 |
|                 |                           |         |         | 2.20         | 58.57        |        | End of Pit at 2.20m                                                             | 3 |
|                 |                           |         |         |              |              |        |                                                                                 | 4 |
|                 |                           |         |         |              |              |        |                                                                                 | 5 |

|           |        |         |
|-----------|--------|---------|
| Depth     | Strike | Remarks |
|           |        |         |
| Stability |        |         |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

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# Trial Pit Log

Trial Pit No  
TP236  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468115.00 - 112146.00  
Level: 60.93

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.70

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                       |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-----------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                           |   |
|                 | 0.30                      | ES   |         | 0.40         | 60.53        |        | Grass over, Light brown sandy, gravelly CLAY, with frequent rootlets<br>TOPSOIL                           |   |
|                 | 1.00                      | D    |         | 1.00         | 59.93        |        | Soft orange brown slightly gravelly sandy CLAY. Sand is medium and gravel is medium, sub-angular of flint | 1 |
|                 |                           |      |         | 1.70         | 59.23        |        | Orange slightly clayey medium SAND                                                                        | 2 |
|                 |                           |      |         |              |              |        | End of Pit at 1.70m                                                                                       | 3 |
|                 |                           |      |         |              |              |        |                                                                                                           | 4 |
|                 |                           |      |         |              |              |        |                                                                                                           | 5 |

|           |           |
|-----------|-----------|
| Depth (m) | Level (m) |
|           |           |

Remarks

Stability



# Trial Pit Log

Project Name: Woodcroft

|             |
|-------------|
| Project No. |
| GE16662     |

Co-ords: 468036.00 - 112164.00  
Level: 62.19

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean.

Dimensions  
(m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.00

0.60

|              |
|--------------|
| Logged<br>FG |
|--------------|

[illegible]



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP238  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468045.00 - 112137.00  
Level: 60.22

Date  
21/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.00

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                               | Stratum Description                                                   |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |                                                                                      |                                                                       |   |
|                 | 0.25                      |      |         | 0.25         | 59.97        |   | Grass over, Orange brown sandy CLAY with frequent rootlets<br>TOPSOIL |   |
|                 | 0.50                      | D    |         |              |              |  | Stiff orange brown CLAY with occasional cobbles of sub angular flint  |   |
|                 | 0.80                      | ES   |         |              |              |                                                                                      |                                                                       |   |
|                 | 1.00                      | D    |         | 1.00         | 59.22        |                                                                                      | End of Pit at 1.00m                                                   | 1 |
|                 |                           |      |         |              |              |                                                                                      |                                                                       | 2 |
|                 |                           |      |         |              |              |                                                                                      |                                                                       | 3 |
|                 |                           |      |         |              |              |                                                                                      |                                                                       | 4 |
|                 |                           |      |         |              |              |                                                                                      |                                                                       | 5 |

|           |           |
|-----------|-----------|
| Depth (m) | Level (m) |
|           |           |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP239  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16662

Co-ords: 468112.00 - 112015.00  
Level: 58.28

Date  
23/08/2017

Location: Woodcroft Farm, Lovedean,

Dimensions (m):

1.20

Scale  
1:25

Client: Grainger PLC and Linden Homes South

Depth  
1.80

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                         |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                             |
|                 | 0.20                      | ES   |         |              |              |        | Grass over brown sandy gravelly clay with brick, chalk fragments, concrete, and flint gravel<br>MADE GROUND |
|                 | 0.50                      | ES   |         | 0.50         | 57.78        |        | Brown sandy clay with tiles of possible asbestos, chalk fragments, concrete and brick<br>MADE GROUND        |
|                 |                           |      |         | 0.60         | 57.68        |        | Soft brown very sandy CLAY. Sand is medium                                                                  |
|                 | 1.50                      | ES   |         | 1.40         | 56.88        |        | Soft brown very sandy CLAY. Sand is medium                                                                  |
|                 | 1.80                      | D    |         | 1.80         | 56.48        |        | End of Pit at 1.80m                                                                                         |

|           |           |
|-----------|-----------|
| Depth (m) | Level (m) |
|           |           |

Remarks

Stability



|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS201</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16662                               |  | Co-ords: 468236E - 111994N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                  |  |                                                   |  | Level: 62.76               |  | Scale 1:25                                   |  |
| Client: Grainger PLC and Linden Homes South                                                                                                          |  |                                                   |  | Dates: 05/09/2017          |  | Logged By FG                                 |  |

| Well | Water Strikes | Sample and In Situ Testing |         |           | Depth (m) | Level (m) | Legend                                                                                 | Stratum Description |  |
|------|---------------|----------------------------|---------|-----------|-----------|-----------|----------------------------------------------------------------------------------------|---------------------|--|
|      |               | Depth (m)                  | Type    | Results   |           |           |                                                                                        |                     |  |
|      |               |                            |         |           |           |           | Grass over, brown sandy clay with flint gravel and frequent rootlets<br><b>TOPSOIL</b> |                     |  |
|      |               | 0.25<br>0.25               | D<br>PP | 1.3kg/cm2 | 0.20      | 62.56     |                                                                                        |                     |  |
|      |               | 0.50<br>0.50               | D<br>PP | 0.7kg/cm2 |           |           |                                                                                        |                     |  |
|      |               | 0.75<br>0.75               | D<br>PP | 0.7kg/cm2 | 0.80      | 61.96     |                                                                                        |                     |  |
|      |               | 1.00<br>1.00               | D<br>PP | 0.9kg/cm2 | 1.10      | 61.66     |                                                                                        | 1                   |  |
|      |               | 1.25<br>1.25               | D<br>PP | 1.3kg/cm2 |           |           |                                                                                        |                     |  |
|      |               | 1.50<br>1.50               | D<br>PP | 1.3kg/cm2 |           |           |                                                                                        |                     |  |
|      |               | 1.75<br>1.75               | D<br>PP | 1.7kg/cm2 |           |           |                                                                                        |                     |  |
|      |               | 2.00<br>2.00               | D<br>PP | 1.2kg/cm2 | 2.00      | 60.76     |                                                                                        | 2                   |  |
|      |               | 2.25<br>2.25               | D<br>PP | 0.5kg/cm2 | 2.30      | 60.46     |                                                                                        |                     |  |
|      |               | 2.50                       | D       |           |           |           |                                                                                        |                     |  |
|      |               | 2.75                       | D       |           |           |           |                                                                                        |                     |  |
|      |               | 3.00                       | D       |           | 3.00      | 59.76     | ----- End of Borehole at 3.00m -----                                                   | 3                   |  |
|      |               |                            |         |           |           |           |                                                                                        | 4                   |  |
|      |               |                            |         |           |           |           |                                                                                        | 5                   |  |

|          |           |                      |         |                   |          |                             |                                                                                       |
|----------|-----------|----------------------|---------|-------------------|----------|-----------------------------|---------------------------------------------------------------------------------------|
| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks                     |  |
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                             |                                                                                       |
|          |           |                      |         |                   |          | Groundwater not encountered |                                                                                       |

|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS202</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16662                               |  | Co-ords: 468174E - 111973N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                  |  | Level: 60.57                                      |  | Scale 1:25                 |  | Logged By FG                                 |  |
| Client: Grainger PLC and Linden Homes South                                                                                                          |  | Dates: 05/09/2017                                 |  |                            |  |                                              |  |

| Well | Water Strikes | Sample and In Situ Testing |      |           | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                       |  |
|------|---------------|----------------------------|------|-----------|-----------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|
|      |               | Depth (m)                  | Type | Results   |           |           |                                                                                     |                                                                                           |  |
|      |               |                            |      |           | 0.30      | 60.27     |  | Grass over brown sandy clay with frequent rootlets and occasional flint gravel<br>TOPSOIL |  |
|      |               | 0.50                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 0.50                       | PP   | 1.6kg/cm2 |           |           |                                                                                     |                                                                                           |  |
|      |               | 0.75                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 0.75                       | PP   | 1.7kg/cm2 |           |           |                                                                                     |                                                                                           |  |
|      |               |                            |      |           |           |           |                                                                                     | .....Occasional roots (1-3mm)                                                             |  |
|      |               | 1.00                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 1.00                       | PP   | 1.8kg/cm2 | 1.10      | 59.47     |                                                                                     |                                                                                           |  |
|      |               | 1.25                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 1.25                       | PP   | 2.0kg/cm2 |           |           |                                                                                     | .....Occasional roots (2mm)                                                               |  |
|      |               | 1.50                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 1.50                       | PP   | 1.8kg/cm2 |           |           |                                                                                     |                                                                                           |  |
|      |               | 1.75                       | D    |           |           |           |                                                                                     | .....Large root (5mm)                                                                     |  |
|      |               | 1.75                       | PP   | 1.7kg/cm2 |           |           |                                                                                     |                                                                                           |  |
|      |               | 2.00                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 2.00                       | PP   | 1.6kg/cm2 |           |           |                                                                                     |                                                                                           |  |
|      |               | 2.25                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 2.25                       | PP   | 1.5kg/cm2 | 2.40      | 58.17     |                                                                                     |                                                                                           |  |
|      |               | 2.50                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 2.50                       | PP   | 0.7kg/cm2 |           |           |                                                                                     | .....Occasional roots (2-4mm)                                                             |  |
|      |               | 2.75                       | D    |           |           |           |                                                                                     |                                                                                           |  |
|      |               | 2.75                       | PP   | 0.5kg/cm2 | 2.80      | 57.77     |                                                                                     | Yellow/ Orange fine SAND                                                                  |  |
|      |               | 3.00                       | D    |           | 3.00      | 57.57     |                                                                                     | ----- End of Borehole at 3.00m -----                                                      |  |

| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks                     |
|----------|-----------|----------------------|---------|-------------------|----------|-----------------------------|
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                             |
|          |           |                      |         |                   |          | Groundwater not encountered |



|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS203</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16662                               |  | Co-ords: 468173E - 111996N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                  |  | Level: 60.57                                      |  | Scale 1:25                 |  |                                              |  |
| Client: Grainger PLC and Linden Homes South                                                                                                          |  | Dates: 05/09/2017                                 |  | Logged By FG               |  |                                              |  |

| Well | Water Strikes | Sample and In Situ Testing |         |           | Depth (m) | Level (m) | Legend                                                                                | Stratum Description                                                                                                 |   |
|------|---------------|----------------------------|---------|-----------|-----------|-----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                  | Type    | Results   |           |           |                                                                                       |                                                                                                                     |   |
|      |               |                            |         |           | 0.15      | 60.42     |    | Grass over brown sandy clay with frequent rootlets and occasional flint gravel<br><b>TOPSOIL</b>                    |   |
|      |               | 0.25<br>0.25               | D<br>PP | 1.6kg/cm2 |           |           |    | Firm orange brown gravelly CLAY with occasional flint cobbles. Gravel is medium sub angular to sub rounded of flint |   |
|      |               | 0.50<br>0.50               | D<br>PP | 0.9kg/cm2 |           |           |                                                                                       |                                                                                                                     |   |
|      |               | 0.75<br>0.75               | D<br>PP | 1.1kg/cm2 | 0.70      | 59.87     |    | Firm orange, red and grey mottled slightly sandy CLAY. Sand is fine                                                 |   |
|      |               | 1.00<br>1.00               | D<br>PP | 0.5kg/cm2 | 1.10      | 59.47     |                                                                                       | Firm orange and grey mottled sandy CLAY. Sand is fine                                                               | 1 |
|      |               | 1.25<br>1.25               | D<br>PP | 1.0kg/cm2 |           |           |  |                                                                                                                     |   |
|      |               | 1.50<br>1.50               | D<br>PP | 0.8kg/cm2 |           |           |                                                                                       |                                                                                                                     |   |
|      |               | 1.75<br>1.75               | D<br>PP | 1.3kg/cm2 |           |           |                                                                                       |                                                                                                                     |   |
|      |               | 2.00<br>2.00               | D<br>PP | 1.5kg/cm2 | 1.90      | 58.67     |  | Firm orange and grey mottled very sandy CLAY. Sand is fine                                                          | 2 |
|      |               | 2.25<br>2.25               | D<br>PP | 0.9kg/cm2 | 2.30      | 58.27     |                                                                                       | Yellow/ Orange fine SAND                                                                                            |   |
|      |               | 2.50                       | D       |           |           |           |  |                                                                                                                     |   |
|      |               | 2.75                       | D       |           |           |           |                                                                                       |                                                                                                                     |   |
|      |               | 3.00                       | D       |           | 3.00      | 57.57     |                                                                                       | ----- End of Borehole at 3.00m -----                                                                                | 3 |
|      |               |                            |         |           |           |           |                                                                                       |                                                                                                                     | 4 |
|      |               |                            |         |           |           |           |                                                                                       |                                                                                                                     | 5 |

|          |           |                      |         |                   |          |                             |                                                                                       |
|----------|-----------|----------------------|---------|-------------------|----------|-----------------------------|---------------------------------------------------------------------------------------|
| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks                     |  |
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                             |                                                                                       |
|          |           |                      |         |                   |          | Groundwater not encountered |                                                                                       |

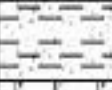
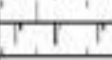
|                                                                                                                                                      |  |                                                   |  |                            |                                              |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|----------------------------------------------|------------------|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesi.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            | Borehole No.<br><b>WS204</b><br>Sheet 1 of 1 |                  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16662                               |  | Co-ords: 468179E - 112013N |                                              | Hole Type<br>WLS |
| Location: Woodcroft Farm, Lovedean,                                                                                                                  |  |                                                   |  | Level: 60.47               |                                              | Scale<br>1:25    |
| Client: Grainger PLC and Linden Homes South                                                                                                          |  |                                                   |  | Dates: 05/09/2017          |                                              | Logged By<br>FG  |

| Well | Water Strikes | Sample and In Situ Testing |         |           | Depth (m) | Level (m) | Legend                                                                                | Stratum Description                                                                       |   |
|------|---------------|----------------------------|---------|-----------|-----------|-----------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                  | Type    | Results   |           |           |                                                                                       |                                                                                           |   |
|      |               |                            |         |           | 0.30      | 60.17     |    | Grass over brown sandy clay with frequent rootlets and occasional flint gravel<br>TOPSOIL |   |
|      |               | 0.50<br>0.50               | D<br>PP | 0.9kg/cm2 |           |           |    | Stiff orange/ brown slightly sandy CLAY with frequent rootlets. Sand is fine              | 1 |
|      |               | 0.75<br>0.75               | D<br>PP | 1.0kg/cm2 |           |           |                                                                                       |                                                                                           |   |
|      |               | 1.00<br>1.00               | D<br>PP | 1.2kg/cm2 | 1.10      | 59.37     |                                                                                       |                                                                                           |   |
|      |               | 1.25<br>1.25               | D<br>PP | 1.4kg/cm2 |           |           |  | Stiff orange/ brown slightly sandy CLAY with rare rootlets. Sand is fine                  |   |
|      |               | 1.50<br>1.50               | D<br>PP | 1.5kg/cm2 |           |           |                                                                                       |                                                                                           |   |
|      |               | 1.75<br>1.75               | D<br>PP | 1.3kg/cm2 |           |           |                                                                                       |                                                                                           |   |
|      |               | 2.00<br>2.00               | D<br>PP | 1.0kg/cm2 |           |           |                                                                                       |                                                                                           | 2 |
|      |               | 2.25<br>2.25               | D<br>PP | 1.1kg/cm2 | 2.30      | 58.17     |                                                                                       |                                                                                           |   |
|      |               | 2.50<br>2.50               | D<br>PP | 0.9kg/cm2 |           |           |  | Firm orange and grey mottled sandy CLAY. Sand is fine                                     |   |
|      |               | 2.75<br>2.75               | D<br>PP | 0.7kg/cm2 |           |           |                                                                                       |                                                                                           |   |
|      |               | 3.00<br>3.00               | D<br>PP | 0.8kg/cm2 | 3.00      | 57.47     |                                                                                       | ----- End of Borehole at 3.00m -----                                                      | 3 |
|      |               |                            |         |           |           |           |                                                                                       |                                                                                           | 4 |
|      |               |                            |         |           |           |           |                                                                                       |                                                                                           | 5 |

|          |           |                      |         |                   |          |                             |                                                                                       |
|----------|-----------|----------------------|---------|-------------------|----------|-----------------------------|---------------------------------------------------------------------------------------|
| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks                     |  |
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                             |                                                                                       |
|          |           |                      |         |                   |          | Groundwater not encountered |                                                                                       |

|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS205</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16662                               |  | Co-ords: 468150E - 112033N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                  |  | Level: 58.83                                      |  | Scale 1:25                 |  | Logged By FG                                 |  |
| Client: Grainger PLC and Linden Homes South                                                                                                          |  | Dates: 05/09/2017                                 |  |                            |  |                                              |  |

| Well | Water Strikes | Sample and In Situ Testing |      |           | Depth (m) | Level (m) | Legend                                                                                | Stratum Description                                                                                                                    |   |
|------|---------------|----------------------------|------|-----------|-----------|-----------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                  | Type | Results   |           |           |                                                                                       |                                                                                                                                        |   |
|      |               |                            |      |           | 0.25      | 58.58     |    | Grass over brown sandy clay with frequent rootlets and occasional flint gravel<br>TOPSOIL                                              |   |
|      |               | 0.50                       | D    |           |           |           |    | Brown clayey fine SAND                                                                                                                 |   |
|      |               | 0.75                       | D    |           |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 0.90                       |      |           | 0.90      | 57.93     |                                                                                       |                                                                                                                                        |   |
|      |               | 1.00                       | D    |           |           |           |   | Orange fine SAND                                                                                                                       | 1 |
|      |               | 1.25                       | D    |           |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 1.50                       | D    |           |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 1.75                       | D    |           | 1.70      | 57.13     |  | Orange clayey fine SAND                                                                                                                |   |
|      |               | 2.00                       | D    |           | 2.00      | 56.83     |  | Stiff grey slightly sandy CLAY. Sand is fine                                                                                           | 2 |
|      |               | 2.00                       | PP   | 1.1kg/cm2 |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 2.25                       | D    |           |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 2.25                       | PP   | 1.2kg/cm2 |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 2.50                       | D    |           |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 2.50                       | PP   | 1.0kg/cm2 | 2.60      | 56.23     |  | Soft brown slightly sandy CLAY. Sand is fine                                                                                           |   |
|      |               | 2.75                       | D    |           | 2.80      | 56.03     |  | Structureless CHALK composed of: medium to coarse sub-angular white sandy GRAVEL, sand is medium and fragments are weak CIRIA Grade DM |   |
|      |               | 2.75                       | PP   | 0.4kg/cm2 |           |           |                                                                                       |                                                                                                                                        |   |
|      |               | 3.00                       | D    |           | 3.00      | 55.83     |                                                                                       | End of Borehole at 3.00m                                                                                                               | 3 |
|      |               |                            |      |           |           |           |                                                                                       |                                                                                                                                        | 4 |
|      |               |                            |      |           |           |           |                                                                                       |                                                                                                                                        | 5 |

| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks                     |
|----------|-----------|----------------------|---------|-------------------|----------|-----------------------------|
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                             |
|          |           |                      |         |                   |          | Groundwater not encountered |





# Borehole Log

WS206

Sheet 1 of 1

|             |
|-------------|
| Project No. |
| GE16662     |

| Hole Type |
|-----------|
| WLS       |

Scale  
1:25

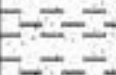
Logged By  
FG

1



|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS207</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16662                               |  | Co-ords: 468075E - 111938N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean,                                                                                                                  |  | Level: 58.31                                      |  | Scale 1:25                 |  | Logged By FG                                 |  |
| Client: Grainger PLC and Linden Homes South                                                                                                          |  | Dates: 05/09/2017                                 |  |                            |  |                                              |  |

| Well | Water Strikes | Sample and In Situ Testing |         |           | Depth (m) | Level (m) | Legend                                                                                | Stratum Description                                                                                                    |   |
|------|---------------|----------------------------|---------|-----------|-----------|-----------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                  | Type    | Results   |           |           |                                                                                       |                                                                                                                        |   |
|      |               |                            |         |           | 0.15      | 58.16     |    | Grass over brown sandy clay with frequent rootlets and occasional flint gravel<br><b>TOPSOIL</b>                       |   |
|      |               | 0.25<br>0.25               | D<br>PP | 1.0kg/cm2 |           |           |    | Firm orange and grey mottled CLAY with frequent rootlets and occasional flint gravel                                   |   |
|      |               | 0.50<br>0.50               | D<br>PP | 1.0kg/cm2 |           |           |    |                                                                                                                        |   |
|      |               | 0.75<br>0.75               | D<br>PP | 0.7kg/cm2 |           |           |    |                                                                                                                        |   |
|      |               | 1.00<br>1.00               | D<br>PP | 0.6kg/cm2 |           |           |    |                                                                                                                        | 1 |
|      |               |                            |         |           | 1.20      | 57.11     |  | .....Decaying root (6mm)                                                                                               |   |
|      |               | 1.25<br>1.25               | D<br>PP | 0.9kg/cm2 |           |           |  | Stiff orange and grey mottled slightly sandy CLAY with occasional rootlets. Sand is fine                               |   |
|      |               |                            |         |           | 1.40      | 56.91     |  | .....Occasional roots (2mm)                                                                                            |   |
|      |               | 1.50<br>1.50               | D<br>PP | 1.5kg/cm2 |           |           |  | Stiff orange and grey mottled slightly sandy CLAY with occasional rootlets and red banding of sandy clay. Sand is fine |   |
|      |               |                            |         |           |           |           |  | .....Occasional roots (2mm)                                                                                            | 2 |
|      |               | 2.00<br>2.00               | D<br>PP | 1.5kg/cm2 |           |           |  |                                                                                                                        |   |
|      |               | 2.25<br>2.25               | D<br>PP | 1.7kg/cm2 | 2.20      | 56.11     |  | Stiff orange and grey mottled slightly sandy CLAY with frequent rootlets. Sand is fine                                 |   |
|      |               | 2.50<br>2.50               | D<br>PP | 1.5kg/cm2 |           |           |  |                                                                                                                        |   |
|      |               | 2.75<br>2.75               | D<br>PP | 1.7kg/cm2 | 2.80      | 55.51     |  | Stiff grey CLAY with chalk fragments                                                                                   |   |
|      |               | 3.00<br>3.00               | D<br>PP | 1.8kg/cm2 | 3.00      | 55.31     |  | ----- End of Borehole at 3.00m -----                                                                                   | 3 |
|      |               |                            |         |           |           |           |                                                                                       |                                                                                                                        | 4 |
|      |               |                            |         |           |           |           |                                                                                       |                                                                                                                        | 5 |

|          |           |                      |         |                   |          |                             |                                                                                       |
|----------|-----------|----------------------|---------|-------------------|----------|-----------------------------|---------------------------------------------------------------------------------------|
| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks                     |  |
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                             |                                                                                       |
|          |           |                      |         |                   |          | Groundwater not encountered |                                                                                       |



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

TrialPit No  
TP301  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16943

Co-ords: 468021.00 - 112011.00  
Level: 56.66

Date  
16/05/2018

Location: Woodcroft Farm, Lovedean, Hampshire

Dimensions (m):

2.40

Depth  
2.70

0.60

Scale  
1:25

Logged  
FG

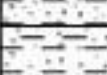
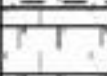
Client: Grainger plc

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                            |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                                                                                                                                                                                                |   |
|                 | 0.25                      | ES   |         | 0.20         | 56.46        |        | Grass over dark brown sandy gravelly CLAY with abundant roots and rootlets<br>TOPSOIL                                                                                                                                                                                                                          |   |
|                 | 0.40                      | ES   |         | 0.45         | 56.21        |        | Made Ground comprising dark brown soft sandy, gravelly CLAY with brick, brick fragments, tile, slate, wood, and glass. Sand is medium and gravel is fine to medium sub angular to sub rounded of flint. Made Ground comprising Fines 60%, Coarse 30%, Brick 5%, Wood 4%, Glass 0.5%, Slate 0.5%<br>MADE GROUND |   |
|                 |                           |      |         | 0.90         | 55.76        |        | Made Ground comprising light brown firm slightly sandy CLAY with flint gravel, brick and wood/decaying roots. Sand is medium. Made Ground comprising Fines 50%, Coarse 30%, Gravel 10%, Brick 5% and Wood 5%<br>MADE GROUND                                                                                    | 1 |
|                 | 1.40                      | ES   |         | 1.30         | 55.36        |        | Made Ground comprising light brown firm CLAY with brick, wood, rope and flint gravel. Made Ground comprising Fines 60%, Coarse 20%, Brick 5% and Wood 5%. (At 0.95m bgl large concrete slab - 1.1m x 0.2m and 0.2m thick)<br>MADE GROUND                                                                       |   |
|                 |                           |      |         |              |              |        | Made Ground comprising light grey and black soft CLAY with wood, chalk gravel, brick and plastic. Made Ground comprising Fines 40%, Coarse 20%, Wood 15%, Brick 15% and Plastic 10%. (At 1.4m bgl large decaying tree root - 1.2m x 0.2m)<br>MADE GROUND                                                       | 2 |
|                 |                           |      |         | 2.70         | 53.96        |        | End of Pit at 2.70m                                                                                                                                                                                                                                                                                            | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                                                                                                                                                                | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                                                                                                                                                                | 5 |
| Remarks         |                           |      |         |              |              |        |                                                                                                                                                                                                                                                                                                                |   |
| Stability       |                           |      |         |              |              |        |                                                                                                                                                                                                                                                                                                                |   |



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                                                   |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | TrialPit No<br><b>TP302</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                   |              |        |                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                                                                 |                           | Project No.<br>GE16943                             |         | Co-ords: 468063.00 - 112007.00<br>Level: 57.59                                                                                                                                                                                                                                                |              |        |                                                                                                                                                                                                                                                                                                            |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                                                                           |                           |                                                    |         | Dimensions (m): <span style="float: right;">2.40</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |        |                                                                                                                                                                                                                                                                                                            |
| Client: Grainger plc                                                                                                                                                                                                                                                                    |                           |                                                    |         | Depth 2.80<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |        |                                                                                                                                                                                                                                                                                                            |
| Water<br>Strike                                                                                                                                                                                                                                                                         | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                         | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |              |        |                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                         | 0.20                      | ES                                                 |         | 0.25                                                                                                                                                                                                                                                                                          | 57.34        |        | Grass over Made Ground comprising clayey sandy fine to coarse sub angular to sub rounded GRAVEL with tarmac, calk fragments, brick, tile, charcoal and wood. Made Ground comprising Fines 25%, Coarse 70%, Brick 3%, Wood 2%. (At 0.1m bgl large piece of tarmac)                                          |
|                                                                                                                                                                                                                                                                                         | 0.50                      | ES                                                 |         | 0.40                                                                                                                                                                                                                                                                                          | 57.19        |        | MADE GROUND                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                         |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        | Made Ground comprising light brown and grey with black and dark grey staining firm CLAY with brick and decaying roots. Made Ground comprising Fines 70%, Coarse 20%, Brick 5%, Wood 5%                                                                                                                     |
|                                                                                                                                                                                                                                                                                         |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        | MADE GROUND                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                         | 1.30                      | ES                                                 |         | 1.20                                                                                                                                                                                                                                                                                          | 56.39        |        | Made Ground comprising dark grey and grey mottled firm CLAY with wood, brick, cement, plastic and chipboard. Made Ground comprising Fines 60%, Coarse 20%, Wood 10%, Brick 5%, Plastic 3% and Cement 2%                                                                                                    |
|                                                                                                                                                                                                                                                                                         | 2.70                      | ES                                                 |         | 2.80                                                                                                                                                                                                                                                                                          | 54.79        |        | Made Ground comprising brown with occasional black staining soft gravelly sandy CLAY with wood, brick, charcoal and plastic. Sand is medium and gravel is fine to medium sub angular to sub rounded of flint. Made Ground comprising Fines 60%, Coarse 20%, Wood 10%, Brick 5%, Charcoal 3% and Plastic 2% |
| <div style="text-align: right;">End of Pit at 2.80m</div>                                                                                                                                                                                                                               |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        |                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                         |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        |                                                                                                                                                                                                                                                                                                            |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px;"></div> <div style="border: 1px solid black; width: 100px; height: 40px;"></div> </div> <div> <div>Remarks</div> <div>Stability</div> </div> </div> |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        |                                                                                                                                                                                                                                                                                                            |



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                                                             |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | Trial Pit No<br><b>TP303</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                                                                           |                           | Project No.<br>GE16943                             |         | Co-ords: 468094.00 - 111975.00<br>Level: 57.47                                                                                                                                                                                                                                                |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                                                                                     |                           |                                                    |         | Dimensions (m): <span style="float: right;">2.20</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
| Client: Grainger plc                                                                                                                                                                                                                                                                              |                           |                                                    |         | Depth<br>2.40                                                                                                                                                                                                                                                                                 |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         | Scale<br>1:25<br>Logged<br>FG                                                                                                                                                                                                                                                                 |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
| Water<br>Strike                                                                                                                                                                                                                                                                                   | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                                | Stratum Description                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                   | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         | 0.10                                                                                                                                                                                                                                                                                          | 57.37        |    | Grass over dark brown silty sandy CLAY with frequent roots and rootlets<br><b>TOPSOIL</b>                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                   | 0.30                      | ES                                                 |         | 0.35                                                                                                                                                                                                                                                                                          | 57.12        |    | Made Ground comprising light brown soft slightly sandy CLAY with brick, glass, flint gravel, concrete, wood and possible asbestos. Sand is medium. Made Ground comprising Fines 70%, Coarse 20%, Gravel 5%, Brick 3%, Concrete 1%, Glass 0.5% and Wood 0.5%<br><b>MADE GROUND</b> |
|                                                                                                                                                                                                                                                                                                   | 0.70                      | ES                                                 |         | 0.80                                                                                                                                                                                                                                                                                          | 56.67        |    | Made Ground comprising light brown firm CLAY with brick and chalk gravel, Fines 80%, Coarse 10%, Gravel 8% and Brick 2%. (Between 0.4m bgl and 0.5m bgl live tree roots)<br><b>MADE GROUND</b>                                                                                    |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |    | Stiff light brown and grey mottled CLAY                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         | 1.20                                                                                                                                                                                                                                                                                          | 56.27        |   |                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         | 1.40                                                                                                                                                                                                                                                                                          | 56.07        |  | Firm light grey and brown sandy gravelly CLAY. Sand is medium and gravel is fine to medium sub angular to sub rounded of flint. (At 1.3m bgl and 1.5m bgl large flint cobbles)                                                                                                    |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |  | Firm brown very gravelly CLAY. Gravel is medium to coarse sub angular of chalk                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                   | 1.90                      | ES                                                 |         | 1.80                                                                                                                                                                                                                                                                                          | 55.67        |  | White/light grey structureless very weak weather CHALK in communicated matrix CIRIA Grade DM                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         | 2.40                                                                                                                                                                                                                                                                                          | 55.07        |  |                                                                                                                                                                                                                                                                                   |
| End of Pit at 2.40m                                                                                                                                                                                                                                                                               |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                   |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                       |                                                                                                                                                                                                                                                                                   |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px;"></div> <div style="border: 1px solid black; width: 100px; height: 40px;"></div> </div> <div>         Remarks<br/><br/>         Stability       </div> </div> |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                       |                                                                                                                                                                                                                                                                                   |



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP304  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16943

Co-ords: 468071.00 - 111965.00  
Level: 56.82

Date  
16/05/2018

Location: Woodcroft Farm, Lovedean, Hampshire

Dimensions (m):

2.10

Scale  
1:25

Client: Grainger plc

Depth  
2.40

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                                                   |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                                                                                                                                                                                       |   |
|                 | 0.10                      |      |         | 0.10         | 56.72        |        | Grass over dark brown silty sandy CLAY with abundant roots and rootlets<br>TOPSOIL                                                                                                                                                                                                                    |   |
|                 | 0.30                      | ES   |         | 0.60         | 56.22        |        | Made Ground comprising grey and brown mottled with frequent black staining soft sandy CLAY with chalk gravel, brick, wood, plastic occasional glass and charcoal. Sand is medium. Made Ground comprising Fines 50%, Coarse 25%, Gravel 15%, Brick 5%, Wood 3%, Plastic 1.5% Other 0.5%<br>MADE GROUND |   |
|                 |                           |      |         | 1.00         | 55.82        |        | Made Ground comprising light brown and grey mottled with occasional black staining soft CLAY with chalk gravel and brick<br>MADE GROUND                                                                                                                                                               |   |
|                 | 1.20                      | ES   |         | 1.20         | 55.62        |        | Soft light brown gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of flint. (Large flint cobbles at 1m bgl)                                                                                                                                                                         | 1 |
|                 |                           |      |         |              |              |        | Stiff light brown and grey mottled slightly sandy CLAY. Sand is medium. (Large flint cobbles at 2.2m bgl)                                                                                                                                                                                             |   |
|                 |                           |      |         | 2.40         | 54.42        |        | End of Pit at 2.40m                                                                                                                                                                                                                                                                                   | 2 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                                                                                                                                                       | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                                                                                                                                                       | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                                                                                                                                                       | 5 |

Remarks

Stability

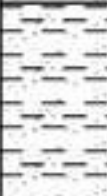


|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |                           | <h1 style="text-align: center;">Trial Pit Log</h1>                                                    |         | Trial Pit No<br><b>TP305</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |              |                                                                                      |                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                               |                           | Project No.<br>GE16943                                                                                |         | Co-ords: 468037.00 - 111960.00<br>Level: 57.32                                                                                                                                                                                                                                                |              |                                                                                      |                                                                                                                                                                                                                          |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |                           |                                                                                                       |         | Dimensions (m): <span style="float: right;">1.80</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |                                                                                      |                                                                                                                                                                                                                          |
| Client: Grainger plc                                                                                                                                                  |                           |                                                                                                       |         | Depth 1.20<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |                                                                                      |                                                                                                                                                                                                                          |
| Water<br>Strike                                                                                                                                                       | Samples & In Situ Testing |                                                                                                       |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                               | Stratum Description                                                                                                                                                                                                      |
|                                                                                                                                                                       | Depth                     | Type                                                                                                  | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                          |
|                                                                                                                                                                       |                           |                                                                                                       |         | 0.20                                                                                                                                                                                                                                                                                          | 57.12        |   | Grass over dark brown silty sandy CLAY with abundant roots and rootlets, and occasional flint gravel<br><b>TOPSOIL</b>                                                                                                   |
|                                                                                                                                                                       | 0.80                      | ES                                                                                                    |         | 0.90                                                                                                                                                                                                                                                                                          | 56.42        |   | Made Ground comprising firm brown and grey mottled slightly sandy CLAY with occasional flint gravel. (At 0.85m large piece of metal)<br><b>MADE GROUND</b>                                                               |
|                                                                                                                                                                       | 1.10                      | ES                                                                                                    |         | 1.20                                                                                                                                                                                                                                                                                          | 56.12        |  | Made Ground comprising light grey with occasional black staining firm slightly sandy CLAY with wood and decaying tree roots. Made Ground comprising Fines 70%, Coarse 20% and Wood/ Tree roots 10%<br><b>MADE GROUND</b> |
| <div style="text-align: right;">End of Pit at 1.20m</div>                                                                                                             |                           |                                                                                                       |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                          |
| <div style="text-align: right;">1<br/>2<br/>3<br/>4<br/>5</div>                                                                                                       |                           |                                                                                                       |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                          |
| Remarks                                                                                                                                                               |                           | Rapid groundwater ingress at 1.1m bgl. Pit abandoned due to instability caused by rapid water ingress |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                          |
| Stability                                                                                                                                                             |                           |                                                                                                       |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                          |



|                                                                                                                                                                       |  |                                                    |  |                                                                                                                                                                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | Trial Pit No<br><b>TP306</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16943                             |  | Co-ords: 468024.00 - 112109.00<br>Level: 59.05                                                                                                                                                                                                                                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |  |                                                    |  | Dimensions (m): <span style="float: right;">2.10</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |  |
| Client: Grainger plc                                                                                                                                                  |  |                                                    |  | Depth<br>2.80                                                                                                                                                                                                                                                                                 |  |
| Scale<br>1:25                                                                                                                                                         |  | Logged<br>FG                                       |  |                                                                                                                                                                                                                                                                                               |  |

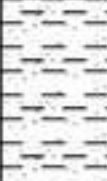
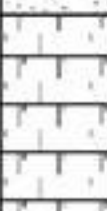
  

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                                | Stratum Description                                                                |   |
|-----------------|---------------------------|------|---------|--------------|--------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |                                                                                       |                                                                                    |   |
|                 | 0.20                      | ES   |         | 0.30         | 58.75        |    | Grass over soft brown silty sandy CLAY with abundant roots and rootlets<br>TOPSOIL |   |
|                 | 0.40                      | ES   |         |              |              |   | Firm orange/brown slightly sandy CLAY with occasional flint gravel. Sand is fine   |   |
|                 | 0.80                      | ES   |         |              |              |                                                                                       |                                                                                    |   |
|                 |                           |      |         | 1.60         | 57.45        |  | Firm orange/brown and grey mottled slightly sandy CLAY. Sand is medium             | 1 |
|                 |                           |      |         | 2.10         | 56.95        |  | Soft orange/brown very sandy CLAY. Sand is medium                                  | 2 |
|                 |                           |      |         | 2.60         | 56.45        |  | Stiff grey CLAY with frequent sub rounded flint cobbles                            |   |
|                 |                           |      |         | 2.80         | 56.25        | ----- End of Pit at 2.80m -----                                                       |                                                                                    | 3 |
|                 |                           |      |         |              |              |                                                                                       |                                                                                    | 4 |
|                 |                           |      |         |              |              |                                                                                       |                                                                                    | 5 |

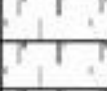
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|-----------|--|
| Remarks   |  |
| Stability |  |



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                    |                           | <h1 style="text-align: center;">Trial Pit Log</h1>                                                                                                                                                                                                                                                                                                                                     |         | Trial Pit No<br><b>TP307</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |              |                                                                                        |                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                  |                           | Project No.<br>GE16943                                                                                                                                                                                                                                                                                                                                                                 |         | Co-ords: 468040.00 - 112091.00<br>Level: 58.94                                                                                                                                                                                                                                                |              |                                                                                        |                                                                                                                                     |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                            |                           |                                                                                                                                                                                                                                                                                                                                                                                        |         | Dimensions (m): <span style="float: right;">1.90</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |                                                                                        |                                                                                                                                     |
| Client: Grainger plc                                                                                                                                                                                                                     |                           |                                                                                                                                                                                                                                                                                                                                                                                        |         | Depth 2.60<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |                                                                                        |                                                                                                                                     |
| Water<br>Strike                                                                                                                                                                                                                          | Samples & In Situ Testing |                                                                                                                                                                                                                                                                                                                                                                                        |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                                 | Stratum Description                                                                                                                 |
|                                                                                                                                                                                                                                          | Depth                     | Type                                                                                                                                                                                                                                                                                                                                                                                   | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                        |                                                                                                                                     |
|                                                                                                                                                                                                                                          | 0.30                      | ES                                                                                                                                                                                                                                                                                                                                                                                     |         | 0.20                                                                                                                                                                                                                                                                                          | 58.74        |     | Grass over soft brown silty sandy CLAY with abundant roots and rootlets<br>TOPSOIL                                                  |
|                                                                                                                                                                                                                                          |                           |                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                               |              |     | Soft orange/brown slightly sandy CLAY with occasional flint gravel. Sand is fine                                                    |
|                                                                                                                                                                                                                                          | 0.80                      | ES                                                                                                                                                                                                                                                                                                                                                                                     |         | 0.70                                                                                                                                                                                                                                                                                          | 58.24        |     | Firm grey and orange/brown mottled CLAY with frequent flint cobbles                                                                 |
|                                                                                                                                                                                                                                          | 1.20                      | ES                                                                                                                                                                                                                                                                                                                                                                                     |         | 1.00                                                                                                                                                                                                                                                                                          | 57.94        |    | Orange and yellow medium SAND                                                                                                       |
|                                                                                                                                                                                                                                          |                           |                                                                                                                                                                                                                                                                                                                                                                                        |         | 2.10                                                                                                                                                                                                                                                                                          | 56.84        |   | White/cream structureless weak, highly weather CHALK in comminuted matrix with frequent sub rounded flint cobbles CIRIA Grade DM/CM |
|                                                                                                                                                                                                                                          |                           |                                                                                                                                                                                                                                                                                                                                                                                        |         | 2.60                                                                                                                                                                                                                                                                                          | 56.34        | <div style="border-top: 1px dashed black; padding-top: 5px;">End of Pit at 2.60m</div> |                                                                                                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">1</div> <div style="width: 10%;">2</div> <div style="width: 10%;">3</div> <div style="width: 10%;">4</div> <div style="width: 10%;">5</div> </div> |                           |                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                                                               |              |                                                                                        |                                                                                                                                     |
| Remarks                                                                                                                                                                                                                                  |                           | <div style="display: flex; justify-content: space-between;"> <div style="width: 10%;">         Photo taken<br/>         Depth: 0.00m<br/>         Time: 10:00am       </div> <div style="width: 80%;">         Stability       </div> <div style="width: 10%; text-align: right;">  </div> </div> |         |                                                                                                                                                                                                                                                                                               |              |                                                                                        |                                                                                                                                     |

|                                                                                                                                                                       |  |                                                    |  |                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|---------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | TrialPit No<br><b>TP308</b><br>Sheet 1 of 1             |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16943                             |  | Co-ords: 468023.00 - 112077.00<br>Level: 58.20          |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |  |                                                    |  | Dimensions (m): <span style="float: right;">2.00</span> |  |
| Client: Grainger plc                                                                                                                                                  |  |                                                    |  | Depth 2.60                                              |  |
|                                                                                                                                                                       |  |                                                    |  | Scale 1:25<br>Logged FG                                 |  |

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                                | Stratum Description                                                                                                                 |   |
|-----------------|---------------------------|------|---------|--------------|--------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |                                                                                       |                                                                                                                                     |   |
|                 | 0.10                      | ES   |         |              |              |    | Grass over soft brown silty sandy CLAY with abundant roots and rootlets<br>TOPSOIL                                                  |   |
|                 | 0.30                      | ES   |         | 0.25         | 57.95        |    | Soft brown very sandy CLAY with occasional flint gravel.<br>Sand is fine                                                            |   |
|                 | 0.70                      | ES   |         | 0.80         | 57.40        |   | Stiff brown/grey gravelly CLAY. Gravel is medium to coarse sub angular to sub rounded of flint                                      | 1 |
|                 |                           |      |         | 1.70         | 56.50        |  | White/cream structureless weak, highly weather CHALK in comminuted matrix with frequent sub rounded flint cobbles CIRIA Grade DM/CM | 2 |
|                 |                           |      |         | 2.60         | 55.60        | End of Pit at 2.60m                                                                   |                                                                                                                                     | 3 |
|                 |                           |      |         |              |              |                                                                                       |                                                                                                                                     | 4 |
|                 |                           |      |         |              |              |                                                                                       |                                                                                                                                     | 5 |

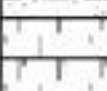
  

|           |  |
|-----------|--|
| Remarks   |  |
| Stability |  |



|                                                                                                                                                                       |  |                                                    |  |                                                                                                                                                                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | Trial Pit No<br><b>TP309</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16943                             |  | Co-ords: 468042.00 - 112072.00<br>Level: 58.36                                                                                                                                                                                                                                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |  |                                                    |  | Dimensions (m): <span style="float: right;">1.90</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |  |
| Client: Grainger plc                                                                                                                                                  |  |                                                    |  | Depth<br>2.10                                                                                                                                                                                                                                                                                 |  |
| Scale<br>1:25                                                                                                                                                         |  | Logged<br>FG                                       |  |                                                                                                                                                                                                                                                                                               |  |

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                                | Stratum Description                                                                                                                                    |
|-----------------|---------------------------|------|---------|--------------|--------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Depth                     | Type | Results |              |              |                                                                                       |                                                                                                                                                        |
|                 | 0.10                      |      |         | 0.10         | 58.26        |    | Soft brown silty sandy CLAY with abundant roots and rootlets                                                                                           |
|                 | 0.25                      | ES   |         | 0.30         | 58.06        |    | TOPSOIL                                                                                                                                                |
|                 | 0.50                      | ES   |         |              |              |    | Made Ground comprising brown sandy CLAY with flint gravel, flint cobbles and occasional black staining                                                 |
|                 | 0.65                      | ES   |         |              |              |    | MADE GROUND                                                                                                                                            |
|                 |                           |      |         |              |              |   | Firm brown/orange slightly sandy CLAY with frequent flint cobbles. (At 0.6-0.7m bgl chalk gravel and chalk fragments. At 0.8m bgl large flint cobbles) |
|                 |                           |      |         | 1.15         | 57.21        |  | White/cream structureless weak, highly weather CHALK in comminuted matrix with frequent sub rounded flint cobbles                                      |
|                 |                           |      |         | 2.10         | 56.26        |  | End of Pit at 2.10m                                                                                                                                    |

|           |  |
|-----------|--|
| Remarks   |  |
| Stability |  |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP310  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16943

Co-ords: 468022.00 - 112039.00  
Level: 57.56

Date  
15/05/2018

Location: Woodcroft Farm, Lovedean, Hampshire

Dimensions (m):

2.10

Scale  
1:25

Client: Grainger plc

Depth  
2.10

0.60

Logged  
FG

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                 |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|-------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                     |   |
|                 | 0.20                      | ES   |         | 0.10         | 57.46        |        | Soft brown silty sandy CLAY with abundant roots and rootlets<br>TOPSOIL                                                             |   |
|                 | 0.50                      | ES   |         | 0.40         | 57.16        |        | Soft brown/orange sandy desiccated CLAY. Sand is medium                                                                             |   |
|                 | 1.50                      | ES   |         | 1.20         | 56.36        |        | Stiff brown slightly sandy CLAY with frequent flint cobbles. Sand is medium                                                         | 1 |
|                 |                           |      |         | 2.10         | 55.46        |        | White/cream structureless weak, highly weather CHALK in comminuted matrix with frequent sub rounded flint cobbles CIRIA Grade DM/CM | 2 |
|                 |                           |      |         |              |              |        | End of Pit at 2.10m                                                                                                                 | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                                     | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                                     | 5 |

Remarks

Stability





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP311  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16943

Co-ords: 468040.00 - 112038.00  
Level: 57.21

Date  
15/05/2018

Location: Woodcroft Farm, Lovedean, Hampshire

Dimensions (m):

1.80

Depth  
2.00

0.60

Scale  
1:25

Logged  
FG

Client: Grainger plc

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                      |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                                                          |   |
|                 | 0.10                      | ES   |         | 0.10         | 57.11        |        | Soft brown silty sandy CLAY with abundant roots and rootlets<br>TOPSOIL                                                                                                  |   |
|                 | 0.20                      | ES   |         | 0.30         | 56.91        |        | Firm brown slightly silty sandy CLAY. Sand is fine                                                                                                                       |   |
|                 | 0.40                      | ES   |         |              |              |        | Firm brown slightly sandy CLAY with occasional flint gravel. Sand is fine                                                                                                |   |
|                 | 0.80                      | ES   |         | 0.90         | 56.31        |        | Firm orange/brown slightly sandy, slightly gravelly CLAY with occasional cobbles of flint. Sand is fine and gravel is fine to medium sub angular to sub rounded of flint | 1 |
|                 |                           |      |         | 1.45         | 55.76        |        | White/cream structureless weak, highly weather CHALK in comminuted matrix with frequent sub rounded flint cobbles CIRIA Grade DM/CM                                      |   |
|                 |                           |      |         | 2.00         | 55.21        |        | End of Pit at 2.00m                                                                                                                                                      | 2 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                          | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                          | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                          | 5 |

Remarks

Stability



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                                           |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | TrialPit No<br><b>TP312</b><br>Sheet 1 of 1                                                                                                         |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                                                         |                           | Project No.<br>GE16943                             |         | Co-ords: 468087.00 - 112016.00<br>Level: 57.59                                                                                                      |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                                                                   |                           |                                                    |         | Dimensions (m): <span style="float: right;">2.10</span><br><div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Client: Grainger plc                                                                                                                                                                                                                                                            |                           |                                                    |         | Depth 2.40<br>Scale 1:25<br>Logged FG                                                                                                               |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Water<br>Strike                                                                                                                                                                                                                                                                 | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                        | Level<br>(m)   | Legend                                                                              | Stratum Description                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                 | Depth                     | Type                                               | Results |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                 | 0.20                      | ES                                                 |         | 0.10                                                                                                                                                | 57.49          |  | Made Ground comprising light brown clayey fine to coarse flint GRAVEL with brick and concrete. Made Ground comprising Fines 30%, Coarse 60%, Brick 15% and Concrete 5%<br><b>MADE GROUND</b><br>Made Ground comprising white/brown clayey fine to coarse chalk GRAVEL with brick, concrete, tarmac, and large pieces of tree. Made Ground comprising Fines 25%, Coarse 60%, Tarmac 10%, Brick 5%, Concrete 3% and Tree 2%<br><b>MADE GROUND</b> |
|                                                                                                                                                                                                                                                                                 | 0.90                      | ES                                                 |         | 0.80                                                                                                                                                | 56.79          |                                                                                     | Made Ground comprising dark brown/grey soft slightly sandy CLAY with plastic, decaying roots and flint gravel. Sand is medium. Made Ground comprising Fines 70%, Coarse 20%, Gravel 7%, Roots 2% and Plastic 1%<br><b>MADE GROUND</b>                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                 | 1.45                      | ES                                                 |         | 1.40                                                                                                                                                | 56.19          |                                                                                     | Firm orange/brown and grey mottled slightly sandy CLAY with occasional flint gravel. Sand is medium. (Large flint cobbles at 1.5m bgl)                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                 |                           |                                                    |         | 2.30<br>2.40                                                                                                                                        | 55.29<br>55.19 |                                                                                     | White/cream structureless weak weather CHALK in communicated matrix with flint gravel CIRIA Grade DM<br>End of Pit at 2.40m                                                                                                                                                                                                                                                                                                                     |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div> |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div> </div> </div>                                                                                                       |                           |                                                    |         |                                                                                                                                                     |                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP313  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16943

Co-ords: 468113.00 - 112026.00  
Level: 58.03

Date  
17/05/2018

Location: Woodcroft Farm, Lovedean, Hampshire

Dimensions (m):

1.80

Depth  
2.50

0.60

Scale  
1:25

Logged  
FG

Client: Grainger plc

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend              | Stratum Description                                                                                                       |   |
|-----------------|---------------------------|------|---------|--------------|--------------|---------------------|---------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |                     |                                                                                                                           |   |
|                 | 0.10                      |      |         | 0.10         | 57.93        |                     | Grass over dark brown silty sandy CLAY with abundant roots and rootlets                                                   |   |
|                 | 0.25                      | ES   |         | 0.30         | 57.73        |                     | TOPSOIL                                                                                                                   |   |
|                 | 0.50                      | ES   |         | 0.60         | 57.43        |                     | Made Ground comprising white/brown clayey fine to coarse sub angular to sub rounded chalk GRAVEL with large flint cobbles |   |
|                 |                           |      |         |              |              |                     | MADE GROUND                                                                                                               |   |
|                 |                           |      |         |              |              |                     | Brown very clayey fine to medium sub angular to sub rounded flint GRAVEL                                                  |   |
|                 |                           |      |         |              |              |                     | Firm orange/brown and grey mottled CLAY with occasional bands of orange medium SAND.                                      |   |
|                 | 1.55                      | ES   |         | 1.50         | 56.53        |                     | Orange medium SAND                                                                                                        | 1 |
|                 |                           |      |         | 1.60         | 56.43        |                     | Stiff orange/brown sandy CLAY with occasional flint gravel. Sand is medium                                                |   |
|                 |                           |      |         | 1.80         | 56.23        |                     | Orange/brown medium SAND with bands of grey firm CLAY                                                                     | 2 |
|                 |                           |      |         | 2.50         | 55.53        | End of Pit at 2.50m |                                                                                                                           | 3 |
|                 |                           |      |         |              |              |                     |                                                                                                                           | 4 |
|                 |                           |      |         |              |              |                     |                                                                                                                           | 5 |

Remarks

Stability



|                                                                                                                                                                       |  |                                                    |  |                                                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | Trial Pit No<br><b>TP314</b><br>Sheet 1 of 1                                                                                              |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16943                             |  | Co-ords: 468124.00 - 112027.00<br>Level: 58.20                                                                                            |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |  |                                                    |  | Dimensions (m): <span style="display: inline-block; width: 100px; height: 30px; border: 1px solid black; vertical-align: middle;"></span> |  |
| Client: Grainger plc                                                                                                                                                  |  |                                                    |  | Depth 2.50                                                                                                                                |  |
| Date<br>17/05/2018                                                                                                                                                    |  | Scale<br>1:25                                      |  | Logged<br>FG                                                                                                                              |  |

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                              | Stratum Description                                                                                                                                                                   |                                                                                                                                                                                           |   |
|-----------------|---------------------------|------|---------|--------------|--------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |                                                                                     |                                                                                                                                                                                       |                                                                                                                                                                                           |   |
|                 | 0.10                      | ES   |         | 0.10         | 58.10        |  | Grass over dark brown silty sandy CLAY with abundant roots and rootlets<br><b>TOPSOIL</b><br>Firm orange/brown slightly sandy CLAY with frequent tree roots (3mm-6mm). Sand is medium |                                                                                                                                                                                           |   |
|                 | 0.70                      | ES   |         | 0.60         | 57.60        |                                                                                     |                                                                                                    | Stiff orange/brown and slightly grey mottled CLAY with occasional bands of orange medium SAND. (Tree roots at 0.9m bgl, band of off white structureless weak weathered CHALK at 1.8m bgl) | 1 |
|                 | 1.60                      | ES   |         | 2.50         | 55.70        |                                                                                     |                                                                                                                                                                                       | <div style="border-top: 1px dashed black; padding-top: 5px;">End of Pit at 2.50m</div>                                                                                                    | 2 |
|                 |                           |      |         |              |              |                                                                                     |                                                                                                                                                                                       |                                                                                                                                                                                           | 3 |
|                 |                           |      |         |              |              |                                                                                     |                                                                                                                                                                                       |                                                                                                                                                                                           | 4 |
|                 |                           |      |         |              |              |                                                                                     |                                                                                                                                                                                       |                                                                                                                                                                                           | 5 |

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| Remarks   |  |
| Stability |  |



|                                                                                                                                                                       |  |                                                    |  |                                                                                                                                                                                                                                                                                               |  |
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|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | Trial Pit No<br><b>TP315</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16943                             |  | Co-ords: 468081.00 - 111991.00<br>Level: 57.67                                                                                                                                                                                                                                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |  |                                                    |  | Dimensions (m): <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> <div style="margin-left: 10px;">2.20</div> </div> |  |
| Client: Grainger plc                                                                                                                                                  |  |                                                    |  | Depth<br>2.40                                                                                                                                                                                                                                                                                 |  |
|                                                                                                                                                                       |  |                                                    |  | Scale<br>1:25                                                                                                                                                                                                                                                                                 |  |
|                                                                                                                                                                       |  |                                                    |  | Logged<br>FG                                                                                                                                                                                                                                                                                  |  |

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                              |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                                                                                                  |
|                 | 0.20                      | ES   |         | 0.50         | 57.17        |        | Loose chippings over brown/grey clayey flint and chalk GRAVEL with tarmac, brick and concrete. Made Ground comprising Fines 30%, Coarse 60%, Brick 5%, Concrete 3% and Tarmac 2%<br>MADE GROUND                  |
|                 | 0.60                      | ES   |         |              |              |        | Made Ground comprising brown and dark grey firm CLAY with brick, concrete, tree roots, flint cobbles and lead pipe. Made Ground comprising Fines 70%, Coarse 20%, Brick 5%, Other 3%, Concrete 2%<br>MADE GROUND |
|                 | 2.30                      | ES   |         | 2.20         | 55.47        |        | Firm brown and grey mottled CLAY with occasional bands of orange medium SAND                                                                                                                                     |
|                 |                           |      |         | 2.40         | 55.27        |        | <div style="border-top: 1px dashed black; margin-top: 10px;">End of Pit at 2.40m</div>                                                                                                                           |

1

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|  |  | Remarks   |
|  |  | Stability |





Unit 7, Danworth Farm  
Hurstpierpoint  
BN6 9GL

Geo-Environmental www.gesl.net

# Trial Pit Log

Trial Pit No  
TP316  
Sheet 1 of 1

Project Name: Woodcroft

Project No.  
GE16943

Co-ords: 468111.00 - 111958.00  
Level: 59.73

Date  
17/05/2018

Location: Woodcroft Farm, Lovedean, Hampshire

Dimensions (m):

2.30

Depth  
2.20

0.60

Scale  
1:25

Logged  
FG

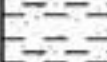
Client: Grainger plc

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                          |   |
|-----------------|---------------------------|------|---------|--------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                     | Type | Results |              |              |        |                                                                                                                                                                              |   |
|                 | 0.20                      | ES   |         |              |              |        | Grass over light brown sandy CLAY with brick, concrete, plastic and glass. Made Ground comprising Fines 40%, Coarse 20%, Brick 20%, Concrete 15% and other 5%<br>MADE GROUND |   |
|                 | 0.90                      | ES   |         | 0.80         | 58.93        |        | Firm orange/brown and grey mottled slightly sandy desiccated CLAY. Sand is medium                                                                                            | 1 |
|                 | 1.90                      | ES   |         | 1.80         | 57.93        |        | Stiff orange/brown, grey and red mottled CLAY                                                                                                                                | 2 |
|                 |                           |      |         | 2.20         | 57.53        |        | End of Pit at 2.20m                                                                                                                                                          | 3 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                              | 4 |
|                 |                           |      |         |              |              |        |                                                                                                                                                                              | 5 |

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|-------|-------|------|-----------|
| Depth | Width | Area | Remarks   |
|       |       |      | Stability |



|                                                                                                                                                                       |  |                                                    |  |                                                                                                                                                                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |  | <h1 style="text-align: center;">Trial Pit Log</h1> |  | Trial Pit No<br><b>TP317</b><br>Sheet 1 of 1                                                                                                                                                                                                                                                  |  |
| Project Name: Woodcroft                                                                                                                                               |  | Project No.<br>GE16943                             |  | Co-ords: 468146.00 - 111985.00<br>Level: 58.97                                                                                                                                                                                                                                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |  |                                                    |  | Dimensions (m): <span style="float: right;">1.90</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |  |
| Client: Grainger plc                                                                                                                                                  |  |                                                    |  | Depth<br>2.20                                                                                                                                                                                                                                                                                 |  |
| Scale<br>1:25                                                                                                                                                         |  | Logged<br>FG                                       |  |                                                                                                                                                                                                                                                                                               |  |

| Water<br>Strike | Samples & In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                                                                                                                                                                                                              | Stratum Description                                                                                                                                     |  |
|-----------------|---------------------------|------|---------|--------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                 | Depth                     | Type | Results |              |              |                                                                                                                                                                                                                                                                     |                                                                                                                                                         |  |
|                 | 0.15                      | ES   |         | 0.15         | 58.82        | <br>Loose chippings over dark brown silty sandy CLAY with frequent roots and rootlets and occasional brick rubble and gravel. (Plastic drainage pipe at 0.1m bgl)<br>MADE GROUND | <br>Made Ground comprising soft dark brown silty CLAY<br>MADE GROUND |  |
|                 | 0.25                      |      |         | 58.72        |              |                                                                                                                                                                                                                                                                     |                                                                                                                                                         |  |
|                 | 0.65                      | ES   |         |              |              | <br>Firm orange/brown sandy CLAY. Sand is medium                                                                                                                                 |                                                                                                                                                         |  |
|                 |                           |      |         |              |              |                                                                                                                                                                                                                                                                     |                                                                                                                                                         |  |
|                 | 1.40                      | ES   |         | 1.35         | 57.62        | <br>Orange/brown clayey medium SAND                                                                                                                                            |                                                                                                                                                         |  |
|                 |                           |      |         | 1.60         | 57.37        | <br>Orange/brown fine to medium SAND with occasional bands of CLAY                                                                                                             |                                                                                                                                                         |  |
|                 |                           |      |         | 2.20         | 56.77        | End of Pit at 2.20m                                                                                                                                                                                                                                                 |                                                                                                                                                         |  |

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|  | Remarks   |
|  | Stability |



## Trial Pit Log

|               |           |
|---------------|-----------|
| Project Name: | Woodcroft |
|---------------|-----------|

|             |         |
|-------------|---------|
| Project No. | GE16943 |
|-------------|---------|

Co-ords: 468116.00 - 111949.00  
Level: 59.78

Date  
17/05/2018

Location: Woodcroft Farm, Lovedean, Hampshire

Dimensions

240

Scale  
1:25

Client: Grainger plc

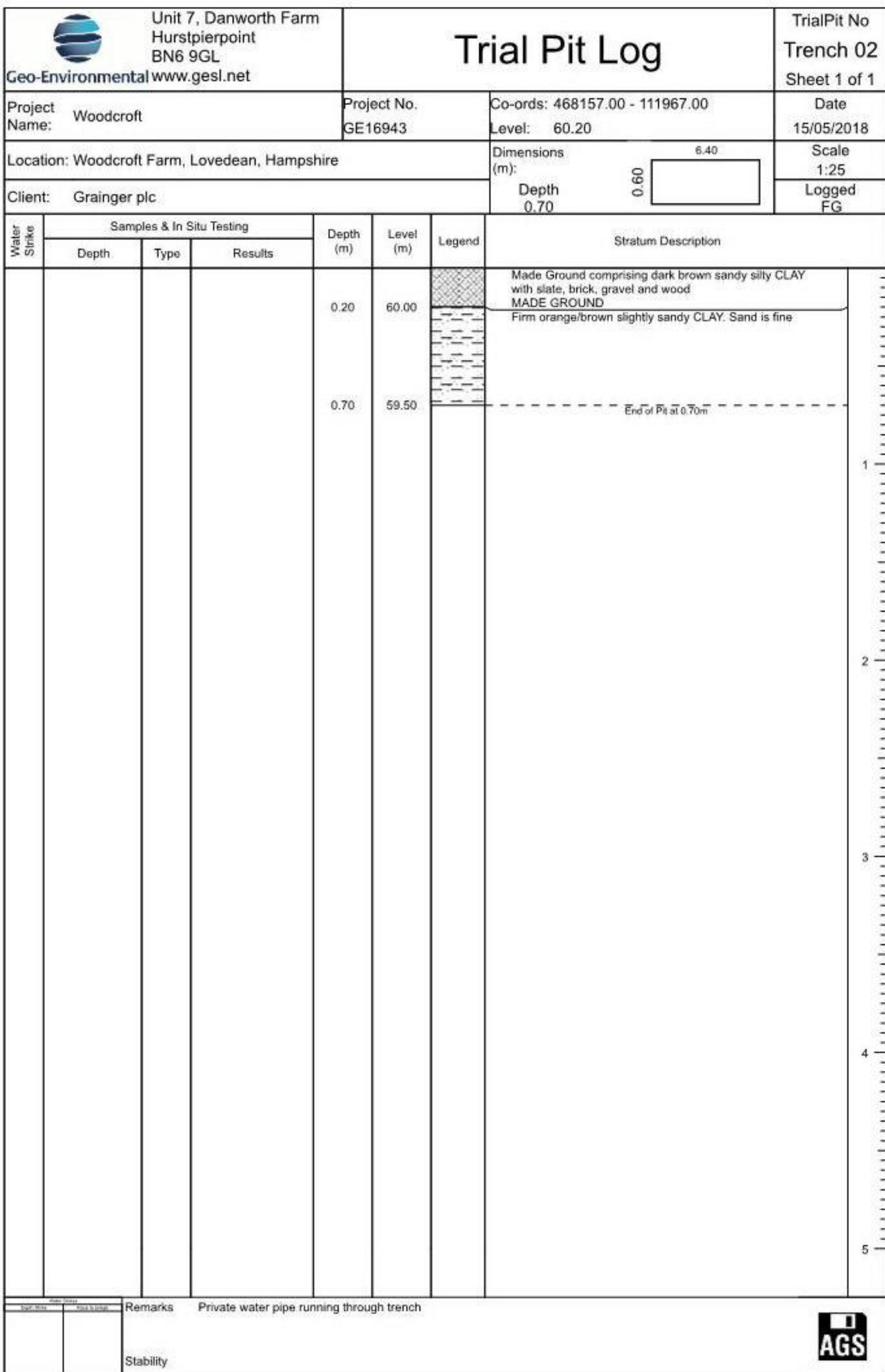
Depth  
1.90

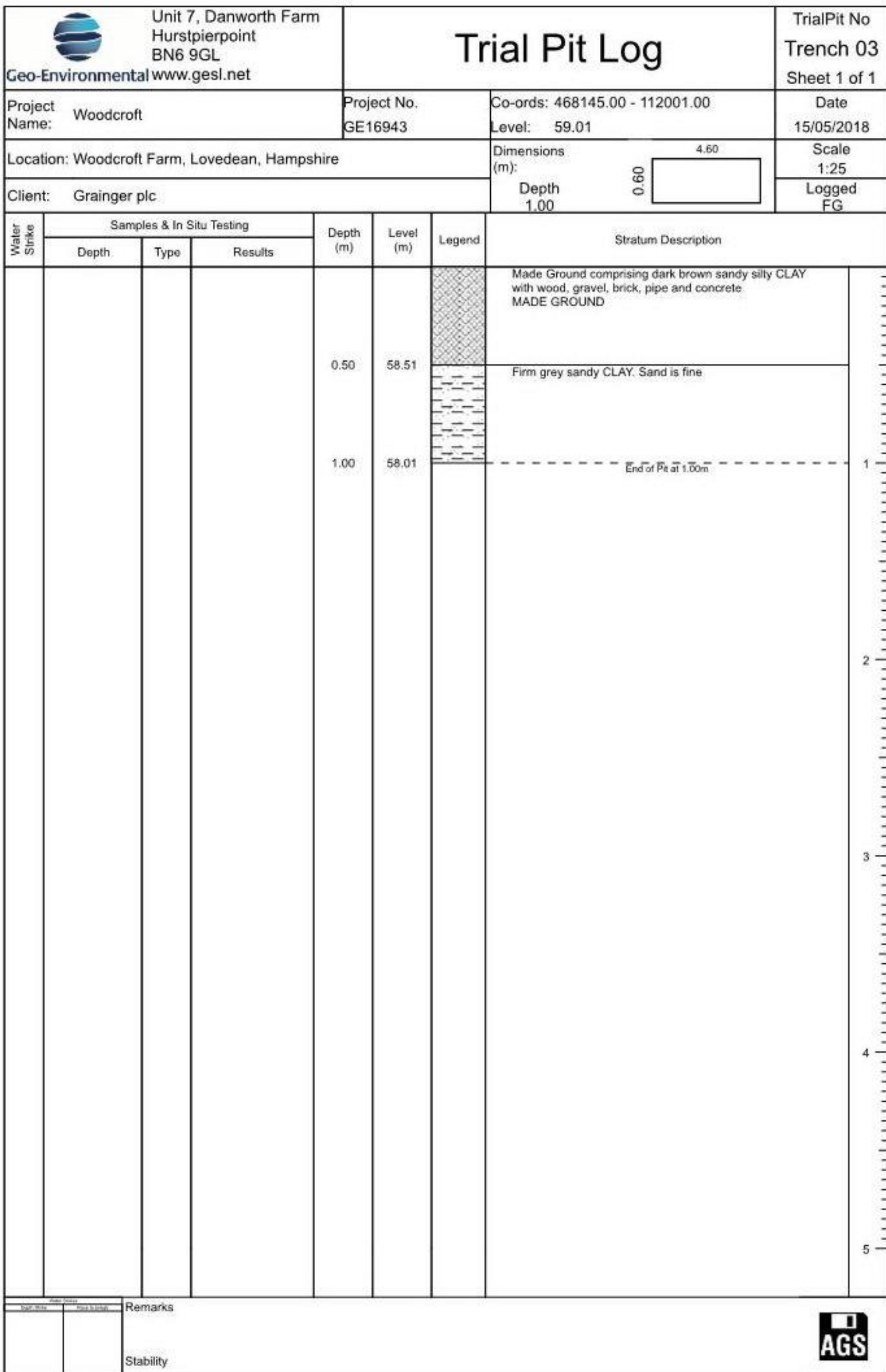
0.60

Logged  
FG

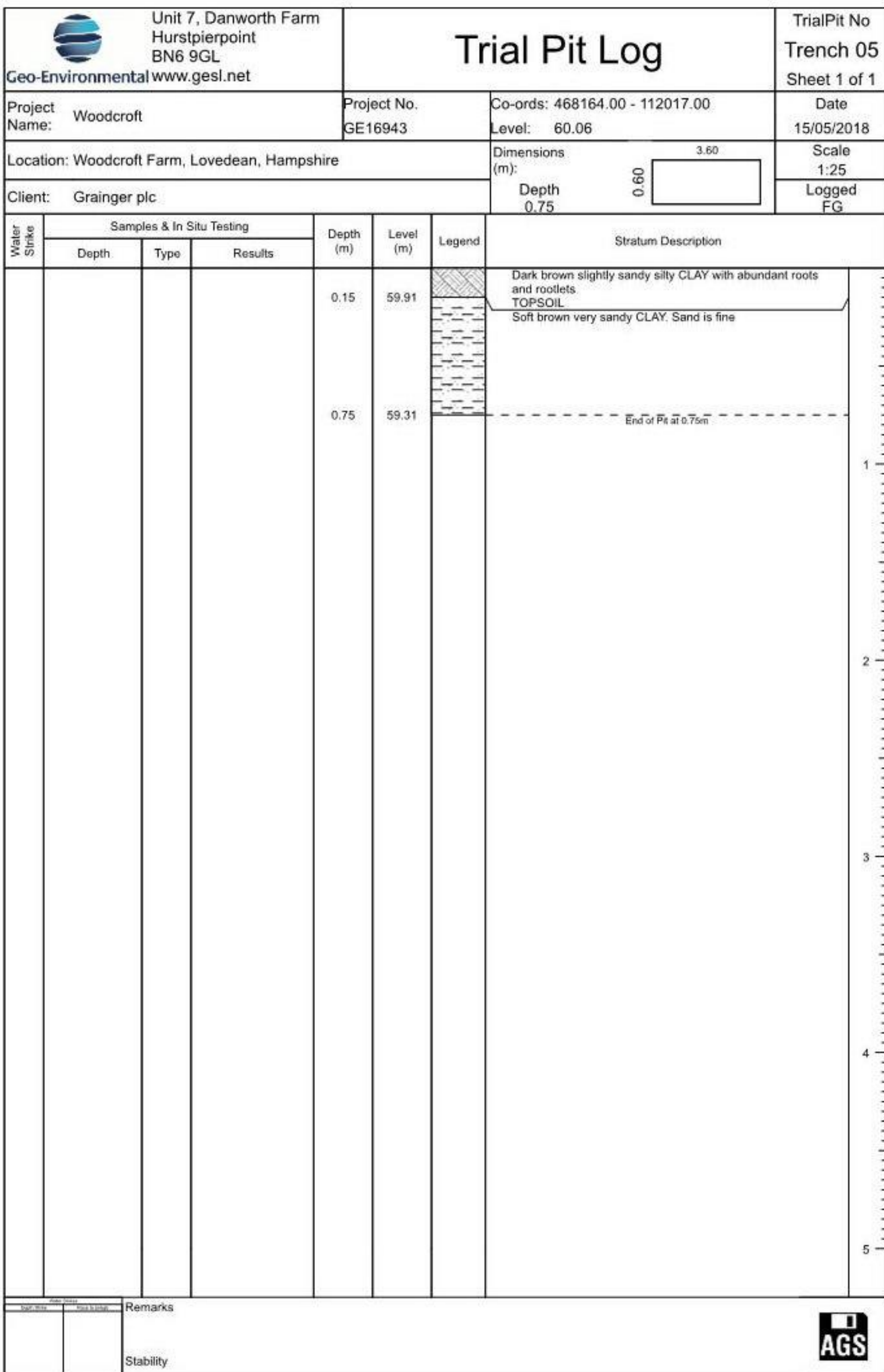
[illegible]

|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                      |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | Trial Pit No<br><b>Trench 01</b><br>Sheet 1 of 1                                                                                                                                                                                                                                              |              |                                                                                                                                                                                                                                     |                                                                                        |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---|
| Project Name: Woodcroft                                                                                                                                                                                                                                    |                           | Project No.<br>GE16943                             |         | Co-ords: 468158.00 - 111950.00<br>Level: 60.98                                                                                                                                                                                                                                                |              |                                                                                                                                                                                                                                     |                                                                                        |   |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                                              |                           |                                                    |         | Dimensions (m): <span style="float: right;">3.40</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |                                                                                                                                                                                                                                     |                                                                                        |   |
| Client: Grainger plc                                                                                                                                                                                                                                       |                           |                                                    |         | Depth 1.00<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                     |                                                                                        |   |
| Water<br>Strike                                                                                                                                                                                                                                            | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                                                                                                                                                                              | Stratum Description                                                                    |   |
|                                                                                                                                                                                                                                                            | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                     |                                                                                        |   |
|                                                                                                                                                                                                                                                            |                           |                                                    |         | 0.10                                                                                                                                                                                                                                                                                          | 60.88        | <br>Dark brown slightly sandy silty CLAY with abundant roots and rootlets.<br><b>TOPSOIL</b><br>Firm grey and orange mottled slightly sandy CLAY |                                                                                        |   |
|                                                                                                                                                                                                                                                            |                           |                                                    |         | 1.00                                                                                                                                                                                                                                                                                          | 59.98        |                                                                                                                                                                                                                                     | <div style="border-top: 1px dashed black; padding-top: 5px;">End of Pit at 1.00m</div> | 1 |
|                                                                                                                                                                                                                                                            |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                     |                                                                                        | 2 |
|                                                                                                                                                                                                                                                            |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                     |                                                                                        | 3 |
|                                                                                                                                                                                                                                                            |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                     |                                                                                        | 4 |
|                                                                                                                                                                                                                                                            |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                     |                                                                                        | 5 |
| <div style="display: flex; justify-content: space-between;"> <div>             Photo Taken<br/>             Depth Measured<br/>             Time of Day           </div> <div>             Remarks<br/><br/>             Stability           </div> </div> |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                     |                                                                                        |   |



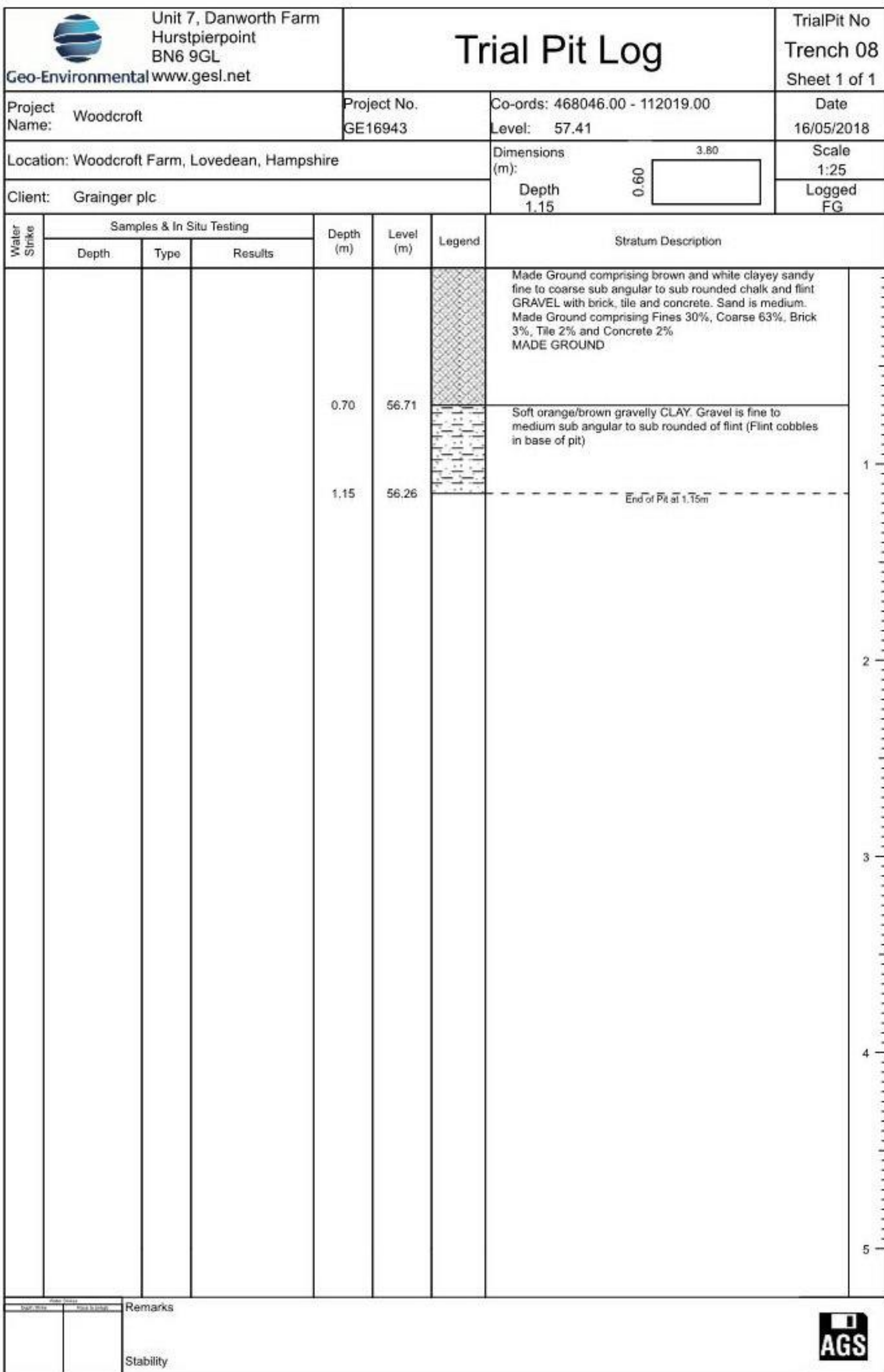


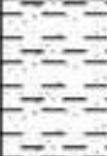
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                     |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         |                                                                                                                                                                                                                                                                                               | Trial Pit No<br><b>Trench 04</b><br>Sheet 1 of 1 |                                                                                     |                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                   |                           | Project No.<br>GE16943                             |         | Co-ords: 468133.00 - 112020.00<br>Level: 58.36                                                                                                                                                                                                                                                |                                                  | Date<br>15/05/2018                                                                  |                                                                                                                                                                                                         |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                             |                           |                                                    |         | Dimensions (m): <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> <div style="margin-left: 10px;">4.80</div> </div> |                                                  | Scale<br>1:25                                                                       |                                                                                                                                                                                                         |
| Client: Grainger plc                                                                                                                                                                                                      |                           |                                                    |         | Depth<br>0.50                                                                                                                                                                                                                                                                                 |                                                  | Logged<br>FG                                                                        |                                                                                                                                                                                                         |
| Water<br>Strike                                                                                                                                                                                                           | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m)                                     | Legend                                                                              | Stratum Description                                                                                                                                                                                     |
|                                                                                                                                                                                                                           | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |                                                  |                                                                                     |                                                                                                                                                                                                         |
|                                                                                                                                                                                                                           |                           |                                                    |         | 0.50                                                                                                                                                                                                                                                                                          | 57.86                                            |  | Firm orange/brown sandy CLAY with occasional flint gravel. Sand is fine<br><br><div style="text-align: center;">----- End of Pit at 0.50m -----</div>                                                   |
|                                                                                                                                                                                                                           |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |                                                  |                                                                                     | <div style="text-align: right;">1</div> <div style="text-align: right;">2</div> <div style="text-align: right;">3</div> <div style="text-align: right;">4</div> <div style="text-align: right;">5</div> |
| <div style="display: flex;"> <div style="border: 1px solid black; width: 50px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 50px; height: 20px; margin-right: 5px;"></div> </div> |                           | Remarks                                            |         |                                                                                                                                                                                                                                                                                               |                                                  |                                                                                     |                                                                                                                                                                                                         |
|                                                                                                                                                                                                                           |                           | Stability                                          |         |                                                                                                                                                                                                                                                                                               |                                                  |                                                                                     |                                                                                                                                                                                                         |



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                                                                       |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | Trial Pit No<br><b>Trench 06</b><br>Sheet 1 of 1                                                                                                                                                                                                                                              |              |                                                                                                                                                                          |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                                                                                     |                           | Project No.<br>GE16943                             |         | Co-ords: 468169.00 - 111997.00<br>Level: 59.91                                                                                                                                                                                                                                                |              |                                                                                                                                                                          |                     |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                                                                                               |                           |                                                    |         | Dimensions (m): <span style="float: right;">4.20</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |                                                                                                                                                                          |                     |
| Client: Grainger plc                                                                                                                                                                                                                                                                                        |                           |                                                    |         | Depth 0.70<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |                                                                                                                                                                          |                     |
| Water<br>Strike                                                                                                                                                                                                                                                                                             | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                                                                                                                   | Stratum Description |
|                                                                                                                                                                                                                                                                                                             | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                          |                     |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         | 0.15                                                                                                                                                                                                                                                                                          | 59.76        | <br>Dark brown slightly sandy silty CLAY with abundant roots and rootlets.<br>TOPSOIL |                     |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         | 0.70                                                                                                                                                                                                                                                                                          | 59.21        | <br>Soft light brown sandy CLAY. Sand is fine                                         |                     |
| <div style="text-align: right; margin-right: 50px;">End of Pit at 0.70m</div>                                                                                                                                                                                                                               |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                          |                     |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                          |                     |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 40px;"></div> </div> <div> <div>Remarks</div> <div>Stability</div> </div> </div> |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                          |                     |

|                                                                                                                                                                       |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | Trial Pit No<br><b>Trench 07</b><br>Sheet 1 of 1                                                                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| Project Name: Woodcroft                                                                                                                                               |                           | Project No.<br>GE16943                             |         | Co-ords: 468033.00 - 112020.00<br>Level: 57.17                                                                                                                                                                                                                                                |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                         |                           |                                                    |         | Dimensions (m): <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> <div style="margin-left: 10px;">2.80</div> </div> |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| Client: Grainger plc                                                                                                                                                  |                           |                                                    |         | Depth 1.10                                                                                                                                                                                                                                                                                    |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| Water<br>Strike                                                                                                                                                       | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                                                                                                                                                                                                                                                                                                                                    | Stratum Description                     |
|                                                                                                                                                                       | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
|                                                                                                                                                                       |                           |                                                    |         | 0.50                                                                                                                                                                                                                                                                                          | 56.67        |  Grass over Made Ground comprising light brown clayey sandy fine to coarse sub angular to sub rounded chalk and flint GRAVEL with tarmac, flint cobbles, wood, charcoal and glass. Made Ground comprising Fines 30%, Coarse 60%, Tarmac 5%, Wood 3% and Other 2%. Sand is medium<br><b>MADE GROUND</b> | <div style="text-align: right;">1</div> |
|                                                                                                                                                                       |                           |                                                    |         | 1.10                                                                                                                                                                                                                                                                                          | 56.07        |  Firm orange/ brown slightly gravelly desiccated CLAY. Gravel is fine to medium sub angular to sub rounded of flint                                                                                                                                                                                   |                                         |
| <div style="text-align: right;">End of Pit at 1.10m</div>                                                                                                             |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| <div style="text-align: right;">2</div>                                                                                                                               |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| <div style="text-align: right;">3</div>                                                                                                                               |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| <div style="text-align: right;">4</div>                                                                                                                               |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| <div style="text-align: right;">5</div>                                                                                                                               |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |
| Remarks                                                                                                                                                               |                           | Stability                                          |         |                                                                                                                                                                                                                                                                                               |              |                                                                                                                                                                                                                                                                                                                                                                                           |                                         |



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                                                                       |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | Trial Pit No<br><b>Trench 09</b><br>Sheet 1 of 1                                                                                                                                                                                                                                              |              |                                                                                      |                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                                                                                     |                           | Project No.<br>GE16943                             |         | Co-ords: 468068.00 - 112013.00<br>Level: 57.70                                                                                                                                                                                                                                                |              |                                                                                      |                                                                                                                                                                                                                                                                |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                                                                                               |                           |                                                    |         | Dimensions (m): <span style="float: right;">2.50</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |                                                                                      |                                                                                                                                                                                                                                                                |
| Client: Grainger plc                                                                                                                                                                                                                                                                                        |                           |                                                    |         | Depth 1.10<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |                                                                                      |                                                                                                                                                                                                                                                                |
| Water<br>Strike                                                                                                                                                                                                                                                                                             | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend                                                                               | Stratum Description                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                             | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         | 0.70                                                                                                                                                                                                                                                                                          | 57.00        |   | Made Ground comprising brown and white clayey sandy fine to coarse sub angular to sub rounded chalk and flint GRAVEL with brick, tarmac and flint cobbles. Sand is medium. Made Ground comprising Fines 30%, Coarse 60%, Brick 5% and Tarmac 5%<br>MADE GROUND |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         | 1.10                                                                                                                                                                                                                                                                                          | 56.60        |  | Firm orange/ brown slightly sandy desiccated CLAY. Sand is medium                                                                                                                                                                                              |
| End of Pit at 1.10m                                                                                                                                                                                                                                                                                         |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                                                                |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 40px;"></div> </div> <div> <div>Remarks</div> <div>Stability</div> </div> </div> |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |                                                                                      |                                                                                                                                                                                                                                                                |



|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>Geo-Environmental www.gesl.net                                                                                                                                       |                           | <h1 style="text-align: center;">Trial Pit Log</h1> |         | Trial Pit No<br><b>Trench 10</b><br>Sheet 1 of 1                                                                                                                                                                                                                                              |              |        |                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                                                                                                                                                                                     |                           | Project No.<br>GE16943                             |         | Co-ords: 468068.00 - 112008.00<br>Level: 57.60                                                                                                                                                                                                                                                |              |        |                                                                                                                                                                                                                                                                              |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                                                                                                                                                                               |                           |                                                    |         | Dimensions (m): <span style="float: right;">4.20</span><br><div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">0.60</div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-left: 10px;"></div> </div> |              |        |                                                                                                                                                                                                                                                                              |
| Client: Grainger plc                                                                                                                                                                                                                                                                                        |                           |                                                    |         | Depth 1.20<br>Scale 1:25<br>Logged FG                                                                                                                                                                                                                                                         |              |        |                                                                                                                                                                                                                                                                              |
| Water<br>Strike                                                                                                                                                                                                                                                                                             | Samples & In Situ Testing |                                                    |         | Depth<br>(m)                                                                                                                                                                                                                                                                                  | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                             | Depth                     | Type                                               | Results |                                                                                                                                                                                                                                                                                               |              |        |                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         | 0.50                                                                                                                                                                                                                                                                                          | 57.10        |        | Made Ground comprising light brown clayey sandy fine to coarse sub angular to sub rounded flint and chalk GRAVEL with brick, concrete, tree roots, clay pipe. Sand is medium. Made Ground comprising Fines 30% Coarse 60%, Brick 4%, Concrete 4% and Other 2%<br>MADE GROUND |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         | 1.20                                                                                                                                                                                                                                                                                          | 56.40        |        | Made Ground comprising dark grey and grey mottled soft CLAY with brick, plastic, roots, wood, chalk fragments, flint gravel and tile. Made Ground comprising Fines 60%, Coarse 20%, Brick 3%, Plastic 2%, Wood/Roots 2%, Other 3%<br>MADE GROUND                             |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        | End of Pit at 1.20m                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                             |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        |                                                                                                                                                                                                                                                                              |
| <div style="display: flex; justify-content: space-between;"> <div> <div style="border: 1px solid black; width: 100px; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 40px;"></div> </div> <div> <div>Remarks</div> <div>Stability</div> </div> </div> |                           |                                                    |         |                                                                                                                                                                                                                                                                                               |              |        |                                                                                                                                                                                                                                                                              |





# Borehole Log

Borehole No.

WS401

Sheet 1 of 2

Project Name: Woodcroft

|             |
|-------------|
| Project No. |
| GE16943     |

Co-ords: 468050E - 112012N

|           |     |
|-----------|-----|
| Hole Type | WLS |
|-----------|-----|

Location: Woodcroft Farm, Lovedean, Hampshire

Level: 56.60

Scale  
1:25

Client: Grainger plc

Dates: 15/05/2018

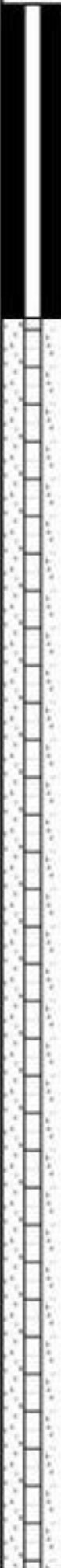
Logged By  
GR

| Well | Water Strikes | Sample and In Situ Testing |           |                      | Depth (m)   | Level (m)         | Legend                                                                                                                                                             | Stratum Description                                                                               |   |                                                                                        |   |
|------|---------------|----------------------------|-----------|----------------------|-------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                  | Type      | Results              |             |                   |                                                                                                                                                                    |                                                                                                   |   |                                                                                        |   |
|      |               | 0.60 - 0.80                | ES        |                      | 0.10        | 56.50             | <br>Grass over brown slightly fine and medium gravelly clay with rootlets<br><b>TOPSOIL</b><br>Brown clay with gravel of flint and red brick<br><b>MADE GROUND</b> |                                                                                                   | 1 |                                                                                        |   |
|      |               |                            |           |                      | 0.90        | 55.70             |                                                                                                                                                                    |                                                                                                   |   | <br>Gray clay with flint gravel ash wood and red brick fragments<br><b>MADE GROUND</b> |   |
|      |               | 2.30 - 2.60                | ES        |                      | 1.40 - 1.70 |                   |                                                                                                                                                                    | <br>Gray clay with chalk and flint gravel. Red brick at 3.6-3.7m bgl<br><b>MADE GROUND</b>        | 2 |                                                                                        |   |
|      |               |                            |           |                      | 2.00        | 54.60             | <br>Gray clay with chalk and flint gravel. Red brick at 3.6-3.7m bgl<br><b>MADE GROUND</b>                                                                         |                                                                                                   |   |                                                                                        |   |
|      |               | 4.80                       |           |                      | 3.70        | 52.90             |                                                                                                                                                                    | <br>Brown clay with abundant fine chalk gravel and rare red brick fragments<br><b>MADE GROUND</b> | 4 |                                                                                        |   |
|      |               |                            |           |                      | 4.80        | 51.80             | <br>Off white <b>CHALK</b> recovered as silty chalk matrix and fine gravel size weak chalk clasts CIRIA Grade                                                      |                                                                                                   |   |                                                                                        |   |
|      |               |                            |           |                      | 5.00        | 51.60             |                                                                                                                                                                    |                                                                                                   |   | Continued on Next Sheet                                                                |   |
|      |               |                            |           |                      |             |                   |                                                                                                                                                                    |                                                                                                   |   |                                                                                        | 5 |
|      |               | Casing                     |           | Water Strikes (mbgl) |             | Chiselling (mbgl) |                                                                                                                                                                    | Remarks<br>No water encountered                                                                   |   |                                                                                        |   |
|      |               | Diameter                   | Depth (m) | Depth Strike         | Rose to     | Depth from        | Depth to                                                                                                                                                           |                                                                                                   |   |                                                                                        |   |
|      |               |                            |           |                      |             |                   |                                                                                                                                                                    |                                                                                                   |   |                                                                                        |   |
|      |               |                            |           |                      |             |                   |                                                                                                                                                                    |                                                                                                   |   |                                                                                        |   |

|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |               | <h1 style="text-align: center;">Borehole Log</h1> |         |                            |           | Borehole No.<br><b>WS401</b><br>Sheet 2 of 2 |        |                                                                                                                                                                                                                                         |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------|---------|----------------------------|-----------|----------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Project Name: Woodcroft                                                                                                                              |               | Project No. GE16943                               |         | Co-ords: 468050E - 112012N |           | Hole Type WLS                                |        |                                                                                                                                                                                                                                         |                                                                                       |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                        |               |                                                   |         | Level: 56.60               |           | Scale 1:25                                   |        |                                                                                                                                                                                                                                         |                                                                                       |
| Client: Grainger plc                                                                                                                                 |               |                                                   |         | Dates: 15/05/2018          |           | Logged By GR                                 |        |                                                                                                                                                                                                                                         |                                                                                       |
| Well                                                                                                                                                 | Water Strikes | Sample and In Situ Testing                        |         |                            | Depth (m) | Level (m)                                    | Legend | Stratum Description                                                                                                                                                                                                                     |                                                                                       |
|                                                                                                                                                      |               | Depth (m)                                         | Type    | Results                    |           |                                              |        |                                                                                                                                                                                                                                         |                                                                                       |
|                                                                                                                                                      |               |                                                   |         |                            |           |                                              |        | <div style="border-bottom: 1px dashed black; display: inline-block; width: 100%;"></div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>DM/CM</span> <span>End of Borehole at 5.00m</span> </div> |                                                                                       |
|                                                                                                                                                      |               |                                                   |         |                            |           |                                              |        |                                                                                                                                                                                                                                         | 6                                                                                     |
|                                                                                                                                                      |               |                                                   |         |                            |           |                                              |        |                                                                                                                                                                                                                                         | 7                                                                                     |
|                                                                                                                                                      |               |                                                   |         |                            |           |                                              |        |                                                                                                                                                                                                                                         | 8                                                                                     |
|                                                                                                                                                      |               |                                                   |         |                            |           |                                              |        |                                                                                                                                                                                                                                         | 9                                                                                     |
|                                                                                                                                                      |               |                                                   |         |                            |           |                                              |        |                                                                                                                                                                                                                                         | 10                                                                                    |
| Casing                                                                                                                                               |               | Water Strikes (mbgl)                              |         | Chiselling (mbgl)          |           | Remarks                                      |        |                                                                                                                                                                                                                                         |  |
| Diameter                                                                                                                                             | Depth (m)     | Depth Strike                                      | Rose to | Depth from                 | Depth to  |                                              |        |                                                                                                                                                                                                                                         |                                                                                       |
|                                                                                                                                                      |               |                                                   |         |                            |           | No water encountered                         |        |                                                                                                                                                                                                                                         |                                                                                       |

|                                                                                                                                                      |  |                                                   |  |                            |                                              |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|----------------------------------------------|------------------|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            | Borehole No.<br><b>WS402</b><br>Sheet 1 of 1 |                  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16943                               |  | Co-ords: 468056E - 111983N |                                              | Hole Type<br>WLS |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                        |  |                                                   |  | Level: 56.73               |                                              | Scale<br>1:25    |
| Client: Grainger plc                                                                                                                                 |  |                                                   |  | Dates: 15/05/2018          |                                              | Logged By<br>GR  |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m)                            | Level (m)                                                                                                                                                                                                                        | Legend                                                                                                                                                                                                                                                                              | Stratum Description                                                                                                                                                                               |  |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                    |               | Depth (m)                  | Type | Results |                                      |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |  |
|  |               |                            |      |         | 0.10                                 | 56.63                                                                                                                                                                                                                            | <br>Grass over brown slightly fine and medium gravelly clay with rootlets<br><b>TOPSOIL</b><br>Firm to stiff brown and grey mottled silty clay<br><b>MADE GROUND</b>                             | 1                                                                                                                                                                                                 |  |
|                                                                                    |               | 0.50                       | ES   |         |                                      |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |  |
|                                                                                    |               |                            |      |         | 0.90                                 | 55.83                                                                                                                                                                                                                            | <br>Brown and grey clay with some gravel of flint red brick and slate<br><b>MADE GROUND</b>                                                                                                     | 2                                                                                                                                                                                                 |  |
|                                                                                    |               | 1.50                       | ES   |         |                                      |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |  |
|                                                                                    |               |                            |      |         | 1.40                                 | 55.33                                                                                                                                                                                                                            | <br>Grey clay with pockets of light grey sandy gravel possibly concrete fragments ash charcoal dead roots and wood fragments and abundant concrete fragments at 2.7-2.8m<br><b>MADE GROUND</b> | 3                                                                                                                                                                                                 |  |
|                                                                                    |               | 2.50                       | ES   |         |                                      |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |  |
|                                                                                    |               |                            |      | 2.80    | 53.93                                | <br>Brown and grey clay with concrete fragments<br><b>MADE GROUND</b>                                                                       | 4                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                   |  |
|                                                                                    | 3.70 - 4.00   | ES                         |      |         |                                      |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |  |
|                                                                                    |               |                            |      | 4.50    | 52.23                                | <br>Dark grey to black fibrous material possibly decomposed paper and wood fragments with red brick. Wood at 4.2-4.5m<br><b>MADE GROUND</b> | 5                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                   |  |
|                                                                                    |               |                            |      | 5.00    | 51.73                                |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     | <br>Off white grey and black chalk with ashy or possibly fine organic matter in matrix<br><b>MADE GROUND</b> |  |
|                                                                                    |               |                            |      |         | ----- End of Borehole at 5.00m ----- |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                   |  |

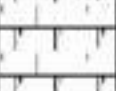
  

| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks              |
|----------|-----------|----------------------|---------|-------------------|----------|----------------------|
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                      |
|          |           |                      |         |                   |          | No water encountered |



|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS403</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16943                               |  | Co-ords: 468054E - 111977N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                        |  |                                                   |  | Level: 56.75               |  | Scale 1:25                                   |  |
| Client: Grainger plc                                                                                                                                 |  |                                                   |  | Dates: 15/05/2018          |  | Logged By GR                                 |  |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                                                                                                                                                                                                                             | Stratum Description |   |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---|
|                                                                                    |               | Depth (m)                  | Type | Results |           |           |                                                                                                                                                                                                                                                                                    |                     |   |
|  |               | 0.10                       |      |         | 0.10      | 56.65     |  Grass over brown slightly fine and medium gravelly clay with rootlets<br><b>TOPSOIL</b><br>Brown clay with some fine to medium flint gravel and rare red brick fragments<br><b>MADE GROUND</b> | 1                   |   |
|                                                                                    |               | 0.30 - 0.50                | ES   |         |           |           |                                                                                                                                                                                                                                                                                    |                     |   |
|                                                                                    |               | 1.10                       |      |         | 1.10      | 55.65     |  Grey clay with clinker and red brick fragments and occasional wood fragments<br><b>MADE GROUND</b>                                                                                           | 2                   |   |
|                                                                                    |               | 1.50 - 1.60                | ES   |         |           |           |                                                                                                                                                                                                                                                                                    |                     |   |
|                                                                                    |               | 1.70                       |      |         | 1.70      | 55.05     |  Brown and grey clay with occasional gravel of flint and chalk and occasional inclusions of possible ash ferruginous fragments and red brick<br><b>MADE GROUND</b>                            | 3                   |   |
|                                                                                    | 2.40 - 2.60   | ES                         |      |         |           |           |                                                                                                                                                                                                                                                                                    |                     |   |
|                                                                                    |               | 3.90                       |      |         | 3.90      | 52.85     |  Off white CHALK recovered as structureless mass with some localised orange brown staining CIRIA Grade DM                                                                                     | 4                   |   |
|                                                                                    |               | 5.00                       |      |         | 5.00      | 51.75     |                                                                                                                                                                                                                                                                                    |                     |   |
|                                                                                    |               |                            |      |         |           |           | ----- End of Borehole at 5.00m -----                                                                                                                                                                                                                                               |                     | 5 |

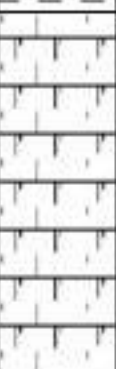
  

|          |           |                      |         |                   |          |         |                                                                                       |
|----------|-----------|----------------------|---------|-------------------|----------|---------|---------------------------------------------------------------------------------------|
| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks |  |
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |         |                                                                                       |
|          |           |                      |         |                   |          |         |                                                                                       |

No water encountered

|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS404</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16943                               |  | Co-ords: 468054E - 111963N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                        |  |                                                   |  | Level: 58.00               |  | Scale 1:25                                   |  |
| Client: Grainger plc                                                                                                                                 |  |                                                   |  | Dates: 15/05/2018          |  | Logged By GR                                 |  |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                                                                                                                                                                                                                                                                                                  | Stratum Description |  |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|                                                                                    |               | Depth (m)                  | Type | Results |           |           |                                                                                                                                                                                                                                                                                                                                                         |                     |  |
|  |               | 0.20 - 0.40                | ES   |         | 0.10      | 57.90     | <br>Grass over brown slightly fine and medium gravelly clay with rootlets<br><b>TOPSOIL</b><br><br>Dark grey silty gravelly clay. Gravel of flint and brick<br><b>MADE GROUND</b> |                     |  |
|                                                                                    |               |                            |      |         | 0.60      | 57.40     |                                                                                                                                                                                                                                                                     |                     |  |
|                                                                                    |               | 1.10 - 1.30                | ES   |         | 1.90      | 56.10     |                                                                                                                                                                                                                                                                    |                     |  |
|                                                                                    |               |                            |      |         | 2.80      | 55.20     | End of Borehole at 2.80m                                                                                                                                                                                                                                                                                                                                |                     |  |

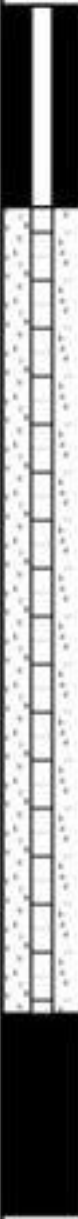
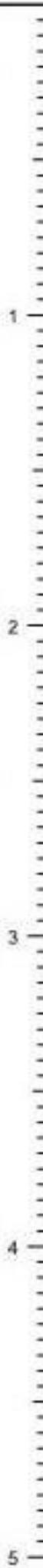
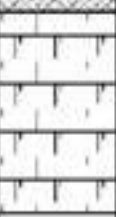
  

| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks              |
|----------|-----------|----------------------|---------|-------------------|----------|----------------------|
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                      |
|          |           |                      |         |                   |          | No water encountered |



|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS405</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16943                               |  | Co-ords: 468038E - 111989N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                        |  |                                                   |  | Level: 56.56               |  | Scale 1:25                                   |  |
| Client: Grainger plc                                                                                                                                 |  |                                                   |  | Dates: 15/05/2018          |  | Logged By GR                                 |  |

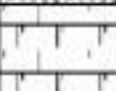
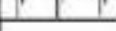
| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                                                                                                                                                   | Stratum Description                                                                  |  |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|
|                                                                                    |               | Depth (m)                  | Type | Results |           |           |                                                                                                                                                                                                          |                                                                                      |  |
|  |               | 0.00 - 0.20                | ES   |         | 0.20      | 56.36     |  Grass over brown slightly fine and medium gravelly clay with rootlets<br><b>TOPSOIL</b>                              |  |  |
|                                                                                    |               | 0.40 - 0.60                | ES   |         |           |           |  Brown and grey clay with occasional roots flint gravel decomposed plant remains and wood<br><b>MADE GROUND</b>       |                                                                                      |  |
|                                                                                    |               | 1.20                       | ES   |         | 1.00      | 55.56     |  Grey clay with gravel of flint red brick and concrete<br><b>MADE GROUND</b>                                         |                                                                                      |  |
|                                                                                    |               |                            |      |         | 2.50      | 54.06     |  off white chalk recovered as structureless mass with some localised orange brown staining and flint CIRIA Grade DM |                                                                                      |  |
|                                                                                    |               |                            |      |         | 3.00      | 53.56     | <div style="border-top: 1px dashed black; padding-top: 5px;">End of Borehole at 3.00m</div>                                                                                                              |                                                                                      |  |

| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks              |  |
|----------|-----------|----------------------|---------|-------------------|----------|----------------------|---------------------------------------------------------------------------------------|
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                      |                                                                                       |
|          |           |                      |         |                   |          | No water encountered |                                                                                       |

|                                                                                                                                                      |  |                                                   |  |                            |                                              |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|----------------------------------------------|------------------|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            | Borehole No.<br><b>WS406</b><br>Sheet 1 of 1 |                  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16943                               |  | Co-ords: 468060E - 111985N |                                              | Hole Type<br>WLS |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                        |  |                                                   |  | Level: 56.79               |                                              | Scale<br>1:25    |
| Client: Grainger plc                                                                                                                                 |  |                                                   |  | Dates: 15/05/2018          |                                              | Logged By<br>GR  |

| Well | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                                                                                                                                                                                                                                                                     | Stratum Description |  |
|------|---------------|----------------------------|------|---------|-----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|      |               | Depth (m)                  | Type | Results |           |           |                                                                                                                                                                                                                                                                                                                            |                     |  |
| Well |               | 0.20 - 0.50                | ES   |         | 0.10      | 56.69     |  Grass over brown slightly fine and medium gravelly clay with rootlets<br><b>TOPSOIL</b><br>Brown and grey mottled silty clay with pockets of sandy gravel of concrete occasional red brick and ash and rare wood<br><b>MADE GROUND</b> |                     |  |
|      |               | 1.60 - 1.90                | ES   |         |           |           |  Bituminous felt (roofing felt) fragments                                                                                                                                                                                             |                     |  |
|      |               | 3.10 - 3.50                | ES   |         | 3.10      | 53.69     |  Dark grey to black clay with decomposed wood and plant fragments with red brick.<br><b>MADE GROUND</b>                                                                                                                               |                     |  |
|      |               |                            |      |         | 3.70      | 53.09     |  Off white CHALK recovered as structureless mass with some localised orange brown staining CIRIA Grade DM                                                                                                                             |                     |  |
|      |               |                            |      |         | 5.00      | 51.79     |  End of Borehole at 5.00m                                                                                                                                                                                                             |                     |  |

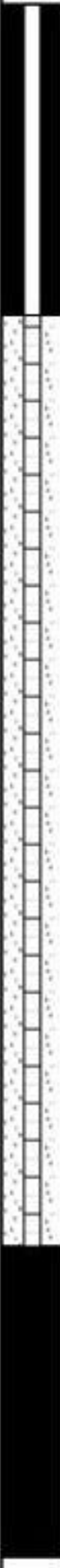
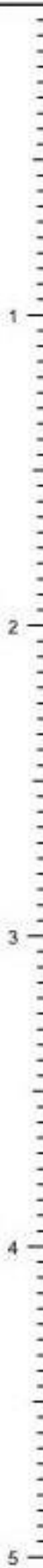
  

| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks              |
|----------|-----------|----------------------|---------|-------------------|----------|----------------------|
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                      |
|          |           |                      |         |                   |          | No water encountered |



|                                                                                                                                                      |  |                                                   |  |                            |  |                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|----------------------------|--|----------------------------------------------|--|
|  Unit 7, Danworth Farm<br>Hurstpierpoint<br>BN6 9GL<br>www.gesl.net |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                            |  | Borehole No.<br><b>WS407</b><br>Sheet 1 of 1 |  |
| Project Name: Woodcroft                                                                                                                              |  | Project No. GE16943                               |  | Co-ords: 468073E - 111977N |  | Hole Type WLS                                |  |
| Location: Woodcroft Farm, Lovedean, Hampshire                                                                                                        |  |                                                   |  | Level: 57.22               |  | Scale 1:25                                   |  |
| Client: Grainger plc                                                                                                                                 |  |                                                   |  | Dates: 15/05/2018          |  | Logged By GR                                 |  |

| Well                                                                               | Water Strikes | Sample and In Situ Testing |      |         | Depth (m) | Level (m)                                                                                                                                                                                            | Legend                                                                                                                                                                                                                                                          | Stratum Description                                                                  |  |
|------------------------------------------------------------------------------------|---------------|----------------------------|------|---------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|
|                                                                                    |               | Depth (m)                  | Type | Results |           |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                      |  |
|  |               | 0.10                       |      |         | 0.10      | 57.12                                                                                                                                                                                                |  Grass over brown slightly fine and medium gravelly clay with rootlets<br><b>TOPSOIL</b><br>Brown clay with some to much gravel of flint and red brick<br><b>MADE GROUND</b> |  |  |
|                                                                                    | 0.30 - 0.50   | ES                         |      |         |           |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                      |  |
|                                                                                    | 1.00 - 2.00   | ES                         |      | 1.00    | 56.22     |  Grey silty sand with much ash charcoal and red brick and occasional glass. Poor recovery<br><b>MADE GROUND</b> | 1                                                                                                                                                                                                                                                               |                                                                                      |  |
|                                                                                    | 3.00 - 4.00   | ES                         |      |         |           |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 | 2                                                                                    |  |
|                                                                                    |               |                            |      |         | 4.00      | 53.22                                                                                                                                                                                                |  Off white CHALK recovered as structureless silty matrix with weal chalk clasts of fine to medium gravel size CIRIA Grade DM/CM                                            | 4                                                                                    |  |
|                                                                                    |               |                            |      |         | 5.00      | 52.22                                                                                                                                                                                                |                                                                                                                                                                                                                                                                 | 5                                                                                    |  |
| <div style="text-align: right;">----- End of Borehole at 5.00m -----</div>         |               |                            |      |         |           |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                      |  |

| Casing   |           | Water Strikes (mbgl) |         | Chiselling (mbgl) |          | Remarks              |
|----------|-----------|----------------------|---------|-------------------|----------|----------------------|
| Diameter | Depth (m) | Depth Strike         | Rose to | Depth from        | Depth to |                      |
|          |           |                      |         |                   |          | No water encountered |





## **APPENDIX B**

### **Geochemical Laboratory Results and Statistical Assessments**





Unit A2  
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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 17-13705

**Issue:** 1

**Date of Issue:** 31/08/2017

**Contact:** Fiona Goode

**Customer Details:** GESL  
Unit 7  
Danworth Farm  
Hurstpierpoint  
West Sussex BN6 9GL

**Quotation No:** Q14-00021

**Order No:** 2253

**Customer Reference:** GE16662

**Date Received:** 24/08/2017

**Date Approved:** 31/08/2017

**Details:** Woodcroft

**Approved by:**

John Wilson, Operations Manager

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

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## Sample Summary

Report No.: 17-13705

| Elab No. | Client's Ref. | Date Sampled | Date Scheduled | Description              | Deviations |
|----------|---------------|--------------|----------------|--------------------------|------------|
| 109920   | TP201 0.10    | 23/08/2017   | 24/08/2017     |                          |            |
| 109921   | TP201 0.50    | 23/08/2017   | 24/08/2017     |                          |            |
| 109922   | TP202 0.10    | 23/08/2017   | 24/08/2017     | Silty loam               |            |
| 109923   | TP202 0.50    | 23/08/2017   | 24/08/2017     |                          |            |
| 109924   | TP203 0.10    | 23/08/2017   | 24/08/2017     |                          |            |
| 109925   | TP203 0.50    | 23/08/2017   | 24/08/2017     | Silty clayey loam        |            |
| 109926   | TP204 0.10    | 22/08/2017   | 24/08/2017     |                          |            |
| 109927   | TP204 0.50    | 22/08/2017   | 24/08/2017     | Silty clayey loam        |            |
| 109928   | TP205 0.10    | 23/08/2017   | 24/08/2017     |                          |            |
| 109929   | TP205 0.50    | 23/08/2017   | 24/08/2017     | Clayey loam              |            |
| 109930   | TP206 0.10    | 23/08/2017   | 24/08/2017     | Silty loam               |            |
| 109931   | TP206 0.50    | 23/08/2017   | 24/08/2017     |                          |            |
| 109932   | TP207 0.30    | 21/08/2017   | 24/08/2017     | Silty clayey loam        |            |
| 109933   | TP208 0.10    | 21/08/2017   | 24/08/2017     |                          |            |
| 109934   | TP209 0.10    | 21/08/2017   | 24/08/2017     |                          |            |
| 109935   | TP210 0.10    | 21/08/2017   | 24/08/2017     |                          |            |
| 109936   | TP211 0.10    | 22/08/2017   | 24/08/2017     |                          |            |
| 109937   | TP212 0.20    | 21/08/2017   | 24/08/2017     |                          |            |
| 109938   | TP213 1.00    | 21/08/2017   | 24/08/2017     | Silty loam               |            |
| 109939   | TP214 0.90    | 21/08/2017   | 24/08/2017     | Silty loam               |            |
| 109940   | TP215 0.30    | 22/08/2017   | 24/08/2017     | Sandy silty loam         |            |
| 109941   | TP215 2.90    | 23/08/2017   | 24/08/2017     | Chalk                    |            |
| 109942   | TP216 0.60    | 21/08/2017   | 24/08/2017     |                          |            |
| 109943   | TP217 0.20    | 21/08/2017   | 24/08/2017     | Silty clayey loam        |            |
| 109944   | TP218 0.15    | 21/08/2017   | 24/08/2017     |                          |            |
| 109945   | TP219 1.00    | 21/08/2017   | 24/08/2017     |                          |            |
| 109946   | TP220 0.20    | 22/08/2017   | 24/08/2017     | Sandy silty loam         |            |
| 109947   | TP220 1.00    | 22/08/2017   | 24/08/2017     | Silty clayey loam        |            |
| 109948   | TP221 0.10    | 22/08/2017   | 24/08/2017     | Silty loam               |            |
| 109949   | TP221 0.50    | 22/08/2017   | 24/08/2017     |                          |            |
| 109950   | TP222 0.40    | 21/08/2017   | 24/08/2017     | Silty clayey loam        |            |
| 109951   | TP223 0.40    | 22/08/2017   | 24/08/2017     | Clayey loam              |            |
| 109952   | TP223 0.50    | 22/08/2017   | 24/08/2017     | Clayey loam              |            |
| 109953   | TP224 0.20    | 22/08/2017   | 24/08/2017     | Sandy silty loam + Chalk |            |
| 109954   | TP224 2.20    | 22/08/2017   | 24/08/2017     | Silty loam               |            |
| 109955   | TP225 0.25    | 23/08/2017   | 24/08/2017     | Sandy silty loam         |            |
| 109956   | TP225 0.30    | 23/08/2017   | 24/08/2017     | Sandy loam               |            |
| 109957   | TP226 0.10    | 21/08/2017   | 24/08/2017     | Silty loam               | c          |
| 109958   | TP227 0.10    | 21/08/2017   | 24/08/2017     |                          |            |
| 109959   | TP228 0.15    | 22/08/2017   | 24/08/2017     | Silty loam               |            |
| 109960   | TP229 0.60    | 21/08/2017   | 24/08/2017     | Loamy sand               |            |
| 109961   | TP230 0.30    | 21/08/2017   | 24/08/2017     |                          |            |
| 109962   | TP231 0.40    | 21/08/2017   | 24/08/2017     | Sandy silty loam         |            |
| 109963   | TP232 0.10    | 21/08/2017   | 24/08/2017     | Silty loam               |            |
| 109964   | TP233 0.40    | 21/08/2017   | 24/08/2017     | Silty clayey loam        |            |
| 109965   | TP234 0.30    | 21/08/2017   | 24/08/2017     | Silty loam               |            |
| 109966   | TP235 0.50    | 22/08/2017   | 24/08/2017     | Loamy sand               |            |
| 109967   | TP236 0.30    | 21/08/2017   | 24/08/2017     | Loamy sand               |            |
| 109968   | TP237 0.40    | 21/08/2017   | 24/08/2017     | Silty loam               |            |
| 109969   | TP238 0.80    | 21/08/2017   | 24/08/2017     |                          |            |
| 109970   | TP239 0.20    | 23/08/2017   | 24/08/2017     | Sandy loam               |            |
| 109971   | TP239 0.50    | 23/08/2017   | 24/08/2017     |                          |            |
| 109972   | TP239 1.50    | 23/08/2017   | 24/08/2017     | Loamy sand               |            |
| 109973   | TP224 0.30    | 22/08/2017   | 24/08/2017     |                          |            |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109922     | 109925     | 109927     | 109929     | 109930     | 109932     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP202      | TP203      | TP204      | TP205      | TP206      | TP207      |
| Sample Depth (m)   | 0.10       | 0.50       | 0.50       | 0.50       | 0.10       | 0.30       |
| Sampling Date      | 23/08/2017 | 23/08/2017 | 22/08/2017 | 23/08/2017 | 23/08/2017 | 21/08/2017 |

| Determinand                      | Codes | Units    | LOD  |       |       |       |       |       |       |
|----------------------------------|-------|----------|------|-------|-------|-------|-------|-------|-------|
| <b>Metals</b>                    |       |          |      |       |       |       |       |       |       |
| Arsenic                          | M     | mg/kg    | 1    | 9.5   | 11.1  | 9.9   | 12.1  | 4.5   | 11.8  |
| Barium                           | U     | mg/kg    | 10   | 34.6  | 48.8  | 45.9  | 17.2  | 16.7  | 30.1  |
| Beryllium                        | U     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chromium                         | M     | mg/kg    | 5    | 34.7  | 60.8  | 53.7  | 30.9  | 12.4  | 38.0  |
| Copper                           | M     | mg/kg    | 5    | 20.3  | 29.5  | 23.9  | 14.6  | 8.0   | 20.3  |
| Lead                             | M     | mg/kg    | 5    | 21.0  | 24.3  | 18.8  | 27.0  | 11.5  | 15.3  |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Nickel                           | M     | mg/kg    | 5    | 18.3  | 21.5  | 22.0  | 8.9   | 5.4   | 9.2   |
| Selenium                         | M     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Vanadium                         | M     | mg/kg    | 5    | 33.5  | 86.7  | 77.1  | 69.9  | 23.4  | 54.1  |
| Zinc                             | M     | mg/kg    | 5    | 41.1  | 52.1  | 58.4  | 28.8  | 17.6  | 27.1  |
| <b>Anions</b>                    |       |          |      |       |       |       |       |       |       |
| Water Soluble Chloride           | M     | mg/kg    | 40   | 48    | 54    | 45    | 53    | < 40  | 70    |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.06  | 0.05  | 0.04  | 0.04  | 0.03  | 0.05  |
| <b>Inorganics</b>                |       |          |      |       |       |       |       |       |       |
| Elemental Sulphur                | N     | mg/kg    | 20   | < 20  | < 20  | < 20  | < 20  | < 20  | < 20  |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 | < 0.8 |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2   | < 2   | < 2   | < 2   | < 2   | < 2   |
| Total Cyanide                    | M     | mg/kg    | 1    | 1.1   | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.07  | 0.11  | 0.04  | 0.07  | 0.04  | 0.05  |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | 0.8   | 0.5   | < 0.5 | 0.8   | < 0.5 | < 0.5 |
| <b>Miscellaneous</b>             |       |          |      |       |       |       |       |       |       |
| Acid Neutralisation Capacity     | N     | mol/kg   | 0.1  | n/t   | n/t   | n/t   | n/t   | n/t   | n/t   |
| Loss On Ignition (450°C)         | M     | %        | 0.01 | n/t   | n/t   | n/t   | n/t   | n/t   | n/t   |
| pH                               | M     | pH units | 0.1  | 7.7   | 7.4   | 7.5   | 5.7   | 5.7   | 7.6   |
| Total Organic Carbon             | N     | %        | 0.01 | 0.50  | 0.54  | 0.23  | 0.19  | 0.36  | 0.19  |
| <b>Phenols</b>                   |       |          |      |       |       |       |       |       |       |
| Total Phenols                    | N     | mg/kg    | 6    | < 6   | < 6   | < 6   | < 6   | < 6   | < 6   |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |       |       |       |       |       |       |
| Naphthalene                      | M     | mg/kg    | 0.1  | 0.9   | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Pyrene                           | M     | mg/kg    | 0.1  | 0.1   | < 0.1 | < 0.1 | < 0.1 | 0.1   | < 0.1 |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | 1.1   | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Total PAH (Including Coronene)   | N     | mg/kg    | 2    | n/t   | n/t   | n/t   | n/t   | n/t   | n/t   |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109922     | 109925     | 109927     | 109929     | 109930     | 109932     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP202      | TP203      | TP204      | TP205      | TP206      | TP207      |
| Sample Depth (m)   | 0.10       | 0.50       | 0.50       | 0.50       | 0.10       | 0.30       |
| Sampling Date      | 23/08/2017 | 23/08/2017 | 22/08/2017 | 23/08/2017 | 23/08/2017 | 21/08/2017 |

| Determinand                         | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>BTEX</b>                         |       |       |      |        |        |        |        |        |        |
| Benzene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Toluene                             | M     | ug/kg | 10   | 35.9   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                        | M     | ug/kg | 10   | 40.3   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                             | M     | ug/kg | 10   | 312    | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Total BTEX                          | M     | mg/kg | 0.01 | n/t    | n/t    | n/t    | n/t    | n/t    | n/t    |
| <b>TPH CWG</b>                      |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic                   | N     | mg/kg | 1    | 1.8    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic                  | N     | mg/kg | 1    | 3.3    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic                  | N     | mg/kg | 1    | 2.0    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic                  | N     | mg/kg | 1    | 1.8    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic                     | N     | mg/kg | 0.01 | 0.04   | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic                    | N     | mg/kg | 1    | 9.0    | < 1.0  | 3.2    | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic                   | N     | mg/kg | 1    | 14.4   | < 1.0  | 5.3    | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic                   | N     | mg/kg | 1    | 3.2    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro             | N     | mg/kg | 1    | 35.5   | < 1.0  | 8.5    | < 1.0  | < 1.0  | < 1.0  |
| <b>Total Petroleum Hydrocarbons</b> |       |       |      |        |        |        |        |        |        |
| Mineral Oil                         | U     | mg/kg | 5    | n/t    | n/t    | n/t    | n/t    | n/t    | n/t    |
| <b>PCB (ICES 7 congeners)</b>       |       |       |      |        |        |        |        |        |        |
| PCB (Total of 7 Congeners)          | M     | mg/kg | 0.03 | n/t    | n/t    | n/t    | n/t    | n/t    | n/t    |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109938     | 109939     | 109940     | 109941     | 109943     | 109946     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP213      | TP214      | TP215      | TP215      | TP217      | TP220      |
| Sample Depth (m)   | 1.00       | 0.90       | 0.30       | 2.90       | 0.20       | 0.20       |
| Sampling Date      | 21/08/2017 | 21/08/2017 | 22/08/2017 | 23/08/2017 | 21/08/2017 | 22/08/2017 |

| Determinand                      | Codes | Units    | LOD  |       |       |       |         |       |       |
|----------------------------------|-------|----------|------|-------|-------|-------|---------|-------|-------|
| <b>Metals</b>                    |       |          |      |       |       |       |         |       |       |
| Arsenic                          | M     | mg/kg    | 1    | 9.0   | 13.8  | 10.4  | ^ 4.7   | 32.6  | 25.7  |
| Barium                           | U     | mg/kg    | 10   | 61.4  | 72.5  | 162   | 11.5    | 86.2  | 373   |
| Beryllium                        | U     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 | < 1.0   | 2.5   | 3.0   |
| Cadmium                          | M     | mg/kg    | 0.5  | 0.5   | < 0.5 | 0.8   | ^ 0.6   | < 0.5 | 1.1   |
| Chromium                         | M     | mg/kg    | 5    | 18.4  | 36.4  | 26.0  | ^ 8.6   | 63.2  | 36.9  |
| Copper                           | M     | mg/kg    | 5    | 14.7  | 20.4  | 22.0  | ^ 6.9   | 37.4  | 93.0  |
| Lead                             | M     | mg/kg    | 5    | 62.6  | 56.0  | 44.4  | ^ < 5.0 | 24.3  | 170   |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | < 0.5 | ^ < 0.5 | < 0.5 | < 0.5 |
| Nickel                           | M     | mg/kg    | 5    | 16.7  | 19.4  | 18.0  | ^ 11.8  | 19.1  | 56.2  |
| Selenium                         | M     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 | ^ < 1.0 | < 1.0 | < 1.0 |
| Vanadium                         | M     | mg/kg    | 5    | 27.7  | 59.1  | 32.2  | ^ 7.8   | 117   | 133   |
| Zinc                             | M     | mg/kg    | 5    | 72.7  | 101   | 121   | ^ 15.9  | 30.3  | 335   |
| <b>Anions</b>                    |       |          |      |       |       |       |         |       |       |
| Water Soluble Chloride           | M     | mg/kg    | 40   | < 40  | 50    | 55    | ^ < 40  | 53    | < 40  |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.03  | 0.30  | 0.16  | ^ 0.04  | 0.05  | 0.03  |
| <b>Inorganics</b>                |       |          |      |       |       |       |         |       |       |
| Elemental Sulphur                | N     | mg/kg    | 20   | < 20  | 1050  | < 20  | < 20    | < 20  | < 20  |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8 | < 0.8 | < 0.8 | < 0.8   | < 0.8 | < 0.8 |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2   | 8     | < 2   | < 2     | < 2   | < 2   |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 | ^ < 1.0 | < 1.0 | < 1.0 |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.07  | 0.13  | 0.11  | 0.04    | 0.06  | 0.08  |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | 0.6   | 1.7   | 0.6   | < 0.5   | < 0.5 | 1.0   |
| <b>Miscellaneous</b>             |       |          |      |       |       |       |         |       |       |
| Acid Neutralisation Capacity     | N     | mol/kg   | 0.1  | n/t   | n/t   | n/t   | n/t     | n/t   | n/t   |
| Loss On Ignition (450°C)         | M     | %        | 0.01 | n/t   | n/t   | n/t   | n/t     | n/t   | n/t   |
| pH                               | M     | pH units | 0.1  | 8.4   | 8.0   | 10.0  | ^ 8.8   | 8.2   | 8.2   |
| Total Organic Carbon             | N     | %        | 0.01 | 0.49  | 0.92  | 0.47  | 0.02    | 0.32  | 4.9   |
| <b>Phenols</b>                   |       |          |      |       |       |       |         |       |       |
| Total Phenols                    | N     | mg/kg    | 6    | < 6   | < 6   | < 6   | < 6     | < 6   | < 6   |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |       |       |       |         |       |       |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | ^ < 0.1 | < 0.1 | 0.2   |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | ^ < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | 0.3   | ^ < 0.1 | < 0.1 | < 0.1 |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | 0.3   | ^ < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene                     | M     | mg/kg    | 0.1  | 0.4   | 0.2   | 2.4   | ^ < 0.1 | < 0.1 | 0.3   |
| Anthracene                       | M     | mg/kg    | 0.1  | 0.1   | < 0.1 | 0.9   | ^ < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene                     | M     | mg/kg    | 0.1  | 1.3   | 0.6   | 5.9   | ^ < 0.1 | < 0.1 | 0.7   |
| Pyrene                           | M     | mg/kg    | 0.1  | 1.3   | 0.6   | 5.1   | ^ 0.1   | < 0.1 | 0.8   |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | 0.8   | 0.3   | 2.9   | ^ < 0.1 | < 0.1 | 0.4   |
| Chrysene                         | M     | mg/kg    | 0.1  | 0.8   | 0.4   | 3.0   | ^ < 0.1 | < 0.1 | 0.5   |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | 1.1   | < 0.1 | 3.0   | ^ < 0.1 | < 0.1 | 0.6   |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | 1.0   | < 0.1 | 2.9   | ^ < 0.1 | < 0.1 | 0.6   |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | 1.0   | 0.4   | 3.1   | ^ 0.2   | < 0.1 | 0.5   |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | 0.9   | 0.2   | 2.2   | ^ < 0.1 | < 0.1 | 0.4   |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | 0.5   | 0.2   | 0.6   | ^ < 0.1 | < 0.1 | 0.2   |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | 0.9   | 0.3   | 2.1   | ^ < 0.1 | < 0.1 | 0.5   |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | 10.4  | 3.2   | 34.6  | ^ < 0.4 | < 0.4 | 5.8   |
| Total PAH (Including Coronene)   | N     | mg/kg    | 2    | n/t   | n/t   | n/t   | n/t     | n/t   | n/t   |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109938     | 109939     | 109940     | 109941     | 109943     | 109946     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP213      | TP214      | TP215      | TP215      | TP217      | TP220      |
| Sample Depth (m)   | 1.00       | 0.90       | 0.30       | 2.90       | 0.20       | 0.20       |
| Sampling Date      | 21/08/2017 | 21/08/2017 | 22/08/2017 | 23/08/2017 | 21/08/2017 | 22/08/2017 |

| Determinand                         | Codes | Units | LOD  |        |        |        |          |        |        |
|-------------------------------------|-------|-------|------|--------|--------|--------|----------|--------|--------|
| <b>BTEX</b>                         |       |       |      |        |        |        |          |        |        |
| Benzene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 |
| Toluene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                        | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 |
| Xylenes                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 |
| Total BTEX                          | M     | mg/kg | 0.01 | n/t    | n/t    | n/t    | n/t      | n/t    | n/t    |
| <b>TPH CWG</b>                      |       |       |      |        |        |        |          |        |        |
| >C5-C6 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01   | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01   | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0    | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0    | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | 2.9      | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | 14.4     | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic                  | N     | mg/kg | 1    | 2.1    | < 1.0  | 18.8   | 9.2      | < 1.0  | 3.3    |
| >C35-C40 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | 3.5    | < 1.0    | < 1.0  | < 1.0  |
| >C5-C7 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01   | < 0.01 | < 0.01 |
| >C7-C8 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01   | < 0.01 | < 0.01 |
| >C8-C10 Aromatic                    | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0    | < 1.0  | < 1.0  |
| >C10-C12 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0    | < 1.0  | < 1.0  |
| >C12-C16 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0    | < 1.0  | < 1.0  |
| >C16-C21 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | 6.9      | < 1.0  | < 1.0  |
| >C21-C35 Aromatic                   | N     | mg/kg | 1    | 7.1    | < 1.0  | 28.2   | 10.9     | < 1.0  | 7.2    |
| >C35-C40 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | 14.6   | < 1.0    | < 1.0  | 1.8    |
| Total (>C5-C40) Ali/Aro             | N     | mg/kg | 1    | 9.3    | < 1.0  | 65.1   | 44.4     | < 1.0  | 12.3   |
| <b>Total Petroleum Hydrocarbons</b> |       |       |      |        |        |        |          |        |        |
| Mineral Oil                         | U     | mg/kg | 5    | n/t    | n/t    | n/t    | n/t      | n/t    | n/t    |
| <b>PCB (ICES 7 congeners)</b>       |       |       |      |        |        |        |          |        |        |
| PCB (Total of 7 Congeners)          | M     | mg/kg | 0.03 | n/t    | n/t    | n/t    | n/t      | n/t    | n/t    |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109947     | 109948     | 109950     | 109951     | 109952     | 109953     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP220      | TP221      | TP222      | TP223      | TP223      | TP224      |
| Sample Depth (m)   | 1.00       | 0.10       | 0.40       | 0.40       | 0.50       | 0.20       |
| Sampling Date      | 22/08/2017 | 22/08/2017 | 21/08/2017 | 22/08/2017 | 22/08/2017 | 22/08/2017 |

| Determinand                      | Codes | Units    | LOD  |       |       |       |       |       |         |
|----------------------------------|-------|----------|------|-------|-------|-------|-------|-------|---------|
| <b>Metals</b>                    |       |          |      |       |       |       |       |       |         |
| Arsenic                          | M     | mg/kg    | 1    | 11.0  | 8.6   | 12.1  | 9.5   | n/t   | ^ 7.8   |
| Barium                           | U     | mg/kg    | 10   | 99.6  | 42.6  | 45.7  | 30.9  | n/t   | 65.4    |
| Beryllium                        | U     | mg/kg    | 1    | 1.2   | < 1.0 | < 1.0 | 1.0   | n/t   | < 1.0   |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | < 0.5 | < 0.5 | n/t   | ^ 0.5   |
| Chromium                         | M     | mg/kg    | 5    | 39.5  | 24.2  | 42.3  | 33.0  | n/t   | ^ 19.5  |
| Copper                           | M     | mg/kg    | 5    | 21.6  | 26.3  | 20.6  | 19.7  | n/t   | ^ 16.4  |
| Lead                             | M     | mg/kg    | 5    | 20.1  | 26.5  | 16.9  | 18.1  | n/t   | ^ 37.9  |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | < 0.5 | < 0.5 | n/t   | ^ < 0.5 |
| Nickel                           | M     | mg/kg    | 5    | 20.6  | 15.2  | 17.4  | 20.4  | n/t   | ^ 16.4  |
| Selenium                         | M     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 | < 1.0 | n/t   | ^ < 1.0 |
| Vanadium                         | M     | mg/kg    | 5    | 74.6  | 37.3  | 62.6  | 41.2  | n/t   | ^ 27.3  |
| Zinc                             | M     | mg/kg    | 5    | 39.7  | 53.8  | 43.6  | 41.0  | n/t   | ^ 51.1  |
| <b>Anions</b>                    |       |          |      |       |       |       |       |       |         |
| Water Soluble Chloride           | M     | mg/kg    | 40   | 48    | 41    | 49    | 92    | n/t   | ^ 167   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.08  | 0.04  | 0.04  | 0.06  | n/t   | ^ 0.09  |
| <b>Inorganics</b>                |       |          |      |       |       |       |       |       |         |
| Elemental Sulphur                | N     | mg/kg    | 20   | < 20  | < 20  | < 20  | < 20  | n/t   | < 20    |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8 | < 0.8 | < 0.8 | < 0.8 | n/t   | < 0.8   |
| Total Sulphide                   | N     | mg/kg    | 2    | 4     | < 2   | < 2   | < 2   | n/t   | < 2     |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 | < 1.0 | n/t   | ^ < 1.0 |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.07  | 0.06  | 0.05  | 0.06  | n/t   | 0.07    |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5 | 0.5   | < 0.5 | 0.5   | n/t   | < 0.5   |
| <b>Miscellaneous</b>             |       |          |      |       |       |       |       |       |         |
| Acid Neutralisation Capacity     | N     | mol/kg   | 0.1  | n/t   | n/t   | n/t   | n/t   | < 0.1 | n/t     |
| Loss On Ignition (450°C)         | M     | %        | 0.01 | n/t   | n/t   | n/t   | n/t   | 2.82  | n/t     |
| pH                               | M     | pH units | 0.1  | 7.3   | 7.7   | 7.5   | 8.3   | 7.7   | ^ 8.3   |
| Total Organic Carbon             | N     | %        | 0.01 | 0.29  | 0.69  | 0.19  | 0.15  | 0.18  | 0.10    |
| <b>Phenols</b>                   |       |          |      |       |       |       |       |       |         |
| Total Phenols                    | N     | mg/kg    | 6    | < 6   | < 6   | < 6   | < 6   | n/t   | < 6     |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |       |       |       |       |       |         |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ < 0.1 |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ < 0.1 |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ < 0.1 |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ < 0.1 |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ 0.5   |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ 0.1   |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1 | 0.1   | < 0.1 | < 0.1 | n/t   | ^ 1.0   |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1 | 0.1   | < 0.1 | < 0.1 | n/t   | ^ 0.9   |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ 0.6   |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1 | 0.1   | < 0.1 | < 0.1 | n/t   | ^ 0.7   |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ 0.6   |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1 | 0.1   | < 0.1 | < 0.1 | n/t   | ^ 0.6   |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | 0.2   | < 0.1 | n/t   | ^ 0.6   |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | 0.2   | < 0.1 | n/t   | ^ 0.6   |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | 0.3   | < 0.1 | n/t   | ^ 0.2   |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 | < 0.1 | n/t   | ^ 0.5   |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4 | < 0.4 | 0.9   | < 0.4 | n/t   | ^ 7.0   |
| Total PAH (Including Coronene)   | N     | mg/kg    | 2    | n/t   | n/t   | n/t   | n/t   | < 2   | n/t     |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109947     | 109948     | 109950     | 109951     | 109952     | 109953     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP220      | TP221      | TP222      | TP223      | TP223      | TP224      |
| Sample Depth (m)   | 1.00       | 0.10       | 0.40       | 0.40       | 0.50       | 0.20       |
| Sampling Date      | 22/08/2017 | 22/08/2017 | 21/08/2017 | 22/08/2017 | 22/08/2017 | 22/08/2017 |

| Determinand                         | Codes | Units | LOD  |        |        |        |        |        |          |
|-------------------------------------|-------|-------|------|--------|--------|--------|--------|--------|----------|
| <b>BTEX</b>                         |       |       |      |        |        |        |        |        |          |
| Benzene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | n/t    | ^ < 10.0 |
| Toluene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | n/t    | ^ < 10.0 |
| Ethylbenzene                        | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | n/t    | ^ < 10.0 |
| Xylenes                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | n/t    | ^ < 10.0 |
| Total BTEX                          | M     | mg/kg | 0.01 | n/t    | n/t    | n/t    | n/t    | < 0.01 | n/t      |
| <b>TPH CWG</b>                      |       |       |      |        |        |        |        |        |          |
| >C5-C6 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01   |
| >C6-C8 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01   |
| >C8-C10 Aliphatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | < 1.0    |
| >C10-C12 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | < 1.0    |
| >C12-C16 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | < 1.0    |
| >C16-C21 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | < 1.0    |
| >C21-C35 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | 11.3     |
| >C35-C40 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | 5.0      |
| >C5-C7 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01   |
| >C7-C8 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01   |
| >C8-C10 Aromatic                    | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | < 1.0    |
| >C10-C12 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | < 1.0    |
| >C12-C16 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | < 1.0    |
| >C16-C21 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | 1.5      |
| >C21-C35 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | 41.2     |
| >C35-C40 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | 28.5     |
| Total (>C5-C40) Ali/Aro             | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | n/t    | 87.5     |
| <b>Total Petroleum Hydrocarbons</b> |       |       |      |        |        |        |        |        |          |
| Mineral Oil                         | U     | mg/kg | 5    | n/t    | n/t    | n/t    | n/t    | < 5    | n/t      |
| <b>PCB (ICES 7 congeners)</b>       |       |       |      |        |        |        |        |        |          |
| PCB (Total of 7 Congeners)          | M     | mg/kg | 0.03 | n/t    | n/t    | n/t    | n/t    | < 0.03 | n/t      |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109954     | 109955     | 109956     | 109957     | 109959     | 109960     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP224      | TP225      | TP225      | TP226      | TP228      | TP229      |
| Sample Depth (m)   | 2.20       | 0.25       | 0.30       | 0.10       | 0.15       | 0.60       |
| Sampling Date      | 22/08/2017 | 23/08/2017 | 23/08/2017 | 21/08/2017 | 22/08/2017 | 21/08/2017 |

| Determinand                      | Codes | Units    | LOD  |       |       |      |         |       |       |
|----------------------------------|-------|----------|------|-------|-------|------|---------|-------|-------|
| <b>Metals</b>                    |       |          |      |       |       |      |         |       |       |
| Arsenic                          | M     | mg/kg    | 1    | 6.6   | 13.2  | n/t  | 11.5    | 10.4  | 38.2  |
| Barium                           | U     | mg/kg    | 10   | 63.4  | 124   | n/t  | 46.0    | 40.0  | 51.2  |
| Beryllium                        | U     | mg/kg    | 1    | 1.1   | < 1.0 | n/t  | < 1.0   | < 1.0 | 1.8   |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5 | 0.5   | n/t  | < 0.5   | < 0.5 | < 0.5 |
| Chromium                         | M     | mg/kg    | 5    | 28.9  | 52.8  | n/t  | 21.7    | 19.5  | 37.3  |
| Copper                           | M     | mg/kg    | 5    | 18.4  | 59.3  | n/t  | 16.1    | 12.2  | 23.7  |
| Lead                             | M     | mg/kg    | 5    | 18.5  | 82.9  | n/t  | 25.9    | 23.7  | 18.9  |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | n/t  | < 0.5   | < 0.5 | < 0.5 |
| Nickel                           | M     | mg/kg    | 5    | 30.5  | 43.4  | n/t  | 24.5    | 19.1  | 52.0  |
| Selenium                         | M     | mg/kg    | 1    | < 1.0 | < 1.0 | n/t  | < 1.0   | < 1.0 | 1.1   |
| Vanadium                         | M     | mg/kg    | 5    | 41.5  | 32.9  | n/t  | 33.8    | 33.8  | 61.2  |
| Zinc                             | M     | mg/kg    | 5    | 64.4  | 230   | n/t  | 64.7    | 50.3  | 98.9  |
| <b>Anions</b>                    |       |          |      |       |       |      |         |       |       |
| Water Soluble Chloride           | M     | mg/kg    | 40   | 56    | 140   | n/t  | 65      | < 40  | < 40  |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.04  | 0.35  | n/t  | 0.11    | 0.04  | 0.03  |
| <b>Inorganics</b>                |       |          |      |       |       |      |         |       |       |
| Elemental Sulphur                | N     | mg/kg    | 20   | < 20  | < 20  | n/t  | < 20    | < 20  | < 20  |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8 | < 0.8 | n/t  | < 0.8   | < 0.8 | < 0.8 |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2   | < 2   | n/t  | < 2     | < 2   | < 2   |
| Total Cyanide                    | M     | mg/kg    | 1    | 1.0   | 1.1   | n/t  | 2.4     | 1.1   | < 1.0 |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.05  | 0.77  | n/t  | 0.12    | 0.07  | 0.05  |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5 | 0.7   | n/t  | 0.6     | 0.7   | < 0.5 |
| <b>Miscellaneous</b>             |       |          |      |       |       |      |         |       |       |
| Acid Neutralisation Capacity     | N     | mol/kg   | 0.1  | n/t   | n/t   | 0.2  | n/t     | n/t   | n/t   |
| Loss On Ignition (450°C)         | M     | %        | 0.01 | n/t   | n/t   | 2.63 | n/t     | n/t   | n/t   |
| pH                               | M     | pH units | 0.1  | 7.7   | 11.1  | 11.4 | 9.2     | 7.4   | 7.2   |
| Total Organic Carbon             | N     | %        | 0.01 | 0.33  | 0.41  | 0.40 | 1.1     | 0.69  | 0.10  |
| <b>Phenols</b>                   |       |          |      |       |       |      |         |       |       |
| Total Phenols                    | N     | mg/kg    | 6    | < 6   | < 6   | n/t  | c < 6   | < 6   | < 6   |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |       |       |      |         |       |       |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t  | c < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t  | c < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t  | c < 0.1 | < 0.1 | < 0.1 |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t  | c < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1 | 0.4   | n/t  | c < 0.1 | < 0.1 | < 0.1 |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1 | 0.1   | n/t  | c < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene                     | M     | mg/kg    | 0.1  | 0.2   | 1.2   | n/t  | c 0.3   | < 0.1 | < 0.1 |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1 | 1.1   | n/t  | c 0.3   | 0.1   | < 0.1 |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1 | 0.8   | n/t  | c 0.2   | < 0.1 | < 0.1 |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1 | 0.9   | n/t  | c 0.2   | < 0.1 | < 0.1 |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1 | 0.9   | n/t  | c 0.3   | < 0.1 | < 0.1 |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1 | 1.0   | n/t  | c 0.5   | < 0.1 | < 0.1 |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1 | 1.0   | n/t  | c 0.3   | < 0.1 | < 0.1 |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1 | 0.8   | n/t  | c 0.3   | < 0.1 | < 0.1 |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1 | 0.3   | n/t  | c 0.3   | < 0.1 | < 0.1 |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1 | 0.8   | n/t  | c 0.2   | < 0.1 | < 0.1 |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4 | 9.4   | n/t  | c 3.0   | < 0.4 | < 0.4 |
| Total PAH (Including Coronene)   | N     | mg/kg    | 2    | n/t   | n/t   | 25   | n/t     | n/t   | n/t   |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109954     | 109955     | 109956     | 109957     | 109959     | 109960     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP224      | TP225      | TP225      | TP226      | TP228      | TP229      |
| Sample Depth (m)   | 2.20       | 0.25       | 0.30       | 0.10       | 0.15       | 0.60       |
| Sampling Date      | 22/08/2017 | 23/08/2017 | 23/08/2017 | 21/08/2017 | 22/08/2017 | 21/08/2017 |

| Determinand                         | Codes | Units | LOD  |        |        |        |          |        |        |
|-------------------------------------|-------|-------|------|--------|--------|--------|----------|--------|--------|
| <b>BTEX</b>                         |       |       |      |        |        |        |          |        |        |
| Benzene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | c < 10.0 | < 10.0 | < 10.0 |
| Toluene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | c < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                        | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | c < 10.0 | < 10.0 | < 10.0 |
| Xylenes                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | c < 10.0 | < 10.0 | < 10.0 |
| Total BTEX                          | M     | mg/kg | 0.01 | n/t    | n/t    | < 0.01 | n/t      | n/t    | n/t    |
| <b>TPH CWG</b>                      |       |       |      |        |        |        |          |        |        |
| >C5-C6 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | c < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | c < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | 6.4    | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | c < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | c < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic                    | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | c < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic                   | N     | mg/kg | 1    | < 1.0  | 12.3   | n/t    | c 3.4    | < 1.0  | < 1.0  |
| >C35-C40 Aromatic                   | N     | mg/kg | 1    | < 1.0  | 4.2    | n/t    | c 1.4    | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro             | N     | mg/kg | 1    | < 1.0  | 22.9   | n/t    | c 4.9    | < 1.0  | < 1.0  |
| <b>Total Petroleum Hydrocarbons</b> |       |       |      |        |        |        |          |        |        |
| Mineral Oil                         | U     | mg/kg | 5    | n/t    | n/t    | 11     | n/t      | n/t    | n/t    |
| <b>PCB (ICES 7 congeners)</b>       |       |       |      |        |        |        |          |        |        |
| PCB (Total of 7 Congeners)          | M     | mg/kg | 0.03 | n/t    | n/t    | < 0.03 | n/t      | n/t    | n/t    |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109962     | 109963     | 109964     | 109965     | 109966     | 109967     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP231      | TP232      | TP233      | TP234      | TP235      | TP236      |
| Sample Depth (m)   | 0.40       | 0.10       | 0.40       | 0.30       | 0.50       | 0.30       |
| Sampling Date      | 21/08/2017 | 21/08/2017 | 21/08/2017 | 21/08/2017 | 22/08/2017 | 21/08/2017 |

| Determinand                      | Codes | Units    | LOD  |       |       |       |       |       |        |
|----------------------------------|-------|----------|------|-------|-------|-------|-------|-------|--------|
| <b>Metals</b>                    |       |          |      |       |       |       |       |       |        |
| Arsenic                          | M     | mg/kg    | 1    | 33.1  | 5.6   | n/t   | 6.9   | 14.7  | 30.4   |
| Barium                           | U     | mg/kg    | 10   | 31.8  | 27.5  | n/t   | 30.8  | 18.9  | 38.8   |
| Beryllium                        | U     | mg/kg    | 1    | < 1.0 | < 1.0 | n/t   | < 1.0 | < 1.0 | 1.5    |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | n/t   | < 0.5 | < 0.5 | < 0.5  |
| Chromium                         | M     | mg/kg    | 5    | 31.6  | 17.6  | n/t   | 21.3  | 13.2  | 41.5   |
| Copper                           | M     | mg/kg    | 5    | 17.8  | 12.8  | n/t   | 12.5  | 8.9   | 22.0   |
| Lead                             | M     | mg/kg    | 5    | 14.6  | 17.3  | n/t   | 26.3  | 12.9  | 19.6   |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | n/t   | < 0.5 | < 0.5 | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 18.9  | 14.3  | n/t   | 8.2   | 7.2   | 30.2   |
| Selenium                         | M     | mg/kg    | 1    | < 1.0 | < 1.0 | n/t   | < 1.0 | < 1.0 | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | 63.1  | 26.9  | n/t   | 33.7  | 27.5  | 84.2   |
| Zinc                             | M     | mg/kg    | 5    | 38.5  | 38.3  | n/t   | 37.5  | 25.8  | 71.7   |
| <b>Anions</b>                    |       |          |      |       |       |       |       |       |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | 42    | < 40  | n/t   | 41    | 44    | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.03  | 0.03  | n/t   | 0.03  | 0.03  | < 0.02 |
| <b>Inorganics</b>                |       |          |      |       |       |       |       |       |        |
| Elemental Sulphur                | N     | mg/kg    | 20   | < 20  | < 20  | n/t   | < 20  | < 20  | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8 | < 0.8 | n/t   | < 0.8 | < 0.8 | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2   | < 2   | n/t   | < 2   | < 2   | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | 1.1   | 1.3   | n/t   | 1.6   | 1.8   | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.06  | 0.08  | n/t   | 0.07  | 0.05  | 0.07   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5 | 0.6   | n/t   | 1.0   | < 0.5 | < 0.5  |
| <b>Miscellaneous</b>             |       |          |      |       |       |       |       |       |        |
| Acid Neutralisation Capacity     | N     | mol/kg   | 0.1  | n/t   | n/t   | < 0.1 | n/t   | n/t   | n/t    |
| Loss On Ignition (450°C)         | M     | %        | 0.01 | n/t   | n/t   | 1.81  | n/t   | n/t   | n/t    |
| pH                               | M     | pH units | 0.1  | 6.2   | 6.6   | 6.7   | 6.2   | 5.9   | 5.3    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.30  | 1.4   | 0.15  | 1.4   | 0.14  | 0.10   |
| <b>Phenols</b>                   |       |          |      |       |       |       |       |       |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6   | < 6   | n/t   | < 6   | < 6   | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |       |       |       |       |       |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Pyrene                           | M     | mg/kg    | 0.1  | 0.1   | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | < 0.1 | < 0.1 | < 0.1  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | 0.3   | < 0.1 | < 0.1  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | 0.1   | < 0.1 | < 0.1  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | n/t   | 0.2   | < 0.1 | < 0.1  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4 | < 0.4 | n/t   | 0.7   | < 0.4 | < 0.4  |
| Total PAH (Including Coronene)   | N     | mg/kg    | 2    | n/t   | n/t   | < 2   | n/t   | n/t   | n/t    |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 109962     | 109963     | 109964     | 109965     | 109966     | 109967     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP231      | TP232      | TP233      | TP234      | TP235      | TP236      |
| Sample Depth (m)   | 0.40       | 0.10       | 0.40       | 0.30       | 0.50       | 0.30       |
| Sampling Date      | 21/08/2017 | 21/08/2017 | 21/08/2017 | 21/08/2017 | 22/08/2017 | 21/08/2017 |

| Determinand                         | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>BTEX</b>                         |       |       |      |        |        |        |        |        |        |
| Benzene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | < 10.0 | < 10.0 | < 10.0 |
| Toluene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                        | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | n/t    | < 10.0 | < 10.0 | < 10.0 |
| Total BTEX                          | M     | mg/kg | 0.01 | n/t    | n/t    | < 0.01 | n/t    | n/t    | n/t    |
| <b>TPH CWG</b>                      |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | n/t    | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic                    | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro             | N     | mg/kg | 1    | < 1.0  | < 1.0  | n/t    | < 1.0  | < 1.0  | < 1.0  |
| <b>Total Petroleum Hydrocarbons</b> |       |       |      |        |        |        |        |        |        |
| Mineral Oil                         | U     | mg/kg | 5    | n/t    | n/t    | < 5    | n/t    | n/t    | n/t    |
| <b>PCB (ICES 7 congeners)</b>       |       |       |      |        |        |        |        |        |        |
| PCB (Total of 7 Congeners)          | M     | mg/kg | 0.03 | n/t    | n/t    | < 0.03 | n/t    | n/t    | n/t    |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |
|--------------------|------------|------------|------------|
| ELAB Reference     | 109968     | 109970     | 109972     |
| Customer Reference |            |            |            |
| Sample ID          |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP237      | TP239      | TP239      |
| Sample Depth (m)   | 0.40       | 0.20       | 1.50       |
| Sampling Date      | 21/08/2017 | 23/08/2017 | 23/08/2017 |

| Determinand                      | Codes | Units    | LOD  |       |       |       |
|----------------------------------|-------|----------|------|-------|-------|-------|
| <b>Metals</b>                    |       |          |      |       |       |       |
| Arsenic                          | M     | mg/kg    | 1    | 14.1  | 4.5   | 17.5  |
| Barium                           | U     | mg/kg    | 10   | 81.7  | 33.9  | 42.2  |
| Beryllium                        | U     | mg/kg    | 1    | 1.4   | < 1.0 | 1.3   |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | < 0.5 |
| Chromium                         | M     | mg/kg    | 5    | 40.8  | 17.4  | 32.7  |
| Copper                           | M     | mg/kg    | 5    | 21.1  | 13.1  | 15.9  |
| Lead                             | M     | mg/kg    | 5    | 16.2  | 13.4  | 20.1  |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5 | < 0.5 | < 0.5 |
| Nickel                           | M     | mg/kg    | 5    | 28.8  | 11.3  | 21.3  |
| Selenium                         | M     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 |
| Vanadium                         | M     | mg/kg    | 5    | 58.3  | 18.4  | 90.2  |
| Zinc                             | M     | mg/kg    | 5    | 62.9  | 31.0  | 43.6  |
| <b>Anions</b>                    |       |          |      |       |       |       |
| Water Soluble Chloride           | M     | mg/kg    | 40   | 54    | 126   | 107   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.03  | 0.10  | 0.04  |
| <b>Inorganics</b>                |       |          |      |       |       |       |
| Elemental Sulphur                | N     | mg/kg    | 20   | < 20  | < 20  | < 20  |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8 | < 0.8 | < 0.8 |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2   | < 2   | < 2   |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0 | < 1.0 | < 1.0 |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.04  | 0.04  | 0.10  |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5 | 0.5   | < 0.5 |
| <b>Miscellaneous</b>             |       |          |      |       |       |       |
| Acid Neutralisation Capacity     | N     | mol/kg   | 0.1  | n/t   | n/t   | n/t   |
| Loss On Ignition (450°C)         | M     | %        | 0.01 | n/t   | n/t   | n/t   |
| pH                               | M     | pH units | 0.1  | 6.6   | 8.8   | 7.9   |
| Total Organic Carbon             | N     | %        | 0.01 | 0.16  | 0.21  | 0.09  |
| <b>Phenols</b>                   |       |          |      |       |       |       |
| Total Phenols                    | N     | mg/kg    | 6    | < 6   | < 6   | < 6   |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |       |       |       |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1 | 0.5   | < 0.1 |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1 | 0.6   | < 0.1 |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1 | 0.5   | < 0.1 |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1 | 0.5   | < 0.1 |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1 | 0.5   | < 0.1 |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1 | 0.7   | < 0.1 |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1 | 0.5   | < 0.1 |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1 | 0.6   | < 0.1 |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1 | 0.3   | < 0.1 |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1 | 0.4   | < 0.1 |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4 | 5.2   | < 0.4 |
| Total PAH (Including Coronene)   | N     | mg/kg    | 2    | n/t   | n/t   | n/t   |

# Results Summary

Report No.: 17-13705

|                    |            |            |            |
|--------------------|------------|------------|------------|
| ELAB Reference     | 109968     | 109970     | 109972     |
| Customer Reference |            |            |            |
| Sample ID          |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP237      | TP239      | TP239      |
| Sample Depth (m)   | 0.40       | 0.20       | 1.50       |
| Sampling Date      | 21/08/2017 | 23/08/2017 | 23/08/2017 |

| Determinand                         | Codes | Units | LOD  |        |        |        |
|-------------------------------------|-------|-------|------|--------|--------|--------|
| <b>BTEX</b>                         |       |       |      |        |        |        |
| Benzene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 |
| Toluene                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                        | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                             | M     | ug/kg | 10   | < 10.0 | < 10.0 | < 10.0 |
| Total BTEX                          | M     | mg/kg | 0.01 | n/t    | n/t    | n/t    |
| <b>TPH CWG</b>                      |       |       |      |        |        |        |
| >C5-C6 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic                    | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic                  | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic                     | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic                    | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic                   | N     | mg/kg | 1    | < 1.0  | 4.6    | < 1.0  |
| >C35-C40 Aromatic                   | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro             | N     | mg/kg | 1    | < 1.0  | 4.6    | < 1.0  |
| <b>Total Petroleum Hydrocarbons</b> |       |       |      |        |        |        |
| Mineral Oil                         | U     | mg/kg | 5    | n/t    | n/t    | n/t    |
| <b>PCB (ICES 7 congeners)</b>       |       |       |      |        |        |        |
| PCB (Total of 7 Congeners)          | M     | mg/kg | 0.03 | n/t    | n/t    | n/t    |

# Results Summary

Report No.: 17-13705

## WAC Analysis

|                              |            |      |        |  |        |                                           |                                                               |                          |
|------------------------------|------------|------|--------|--|--------|-------------------------------------------|---------------------------------------------------------------|--------------------------|
| Elab Ref:                    | 109964     |      |        |  |        | Landfill Waste Acceptance Criteria Limits |                                                               |                          |
| Sample Date:                 | 21/08/2017 |      |        |  |        | Inert Waste Landfill                      | Stable Non-reactive Hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID:                   | TP233      |      |        |  |        |                                           |                                                               |                          |
| Depth (m)                    | 0.4        |      |        |  |        |                                           |                                                               |                          |
| Site:                        | Woodcroft  |      |        |  |        |                                           |                                                               |                          |
|                              |            |      |        |  |        |                                           |                                                               |                          |
| Determinand                  |            | Code | Units  |  |        |                                           |                                                               |                          |
| Total Organic Carbon         |            | N    | %      |  | 0.15   | 3                                         | 5                                                             | 6                        |
| Loss on Ignition             |            | M    | %      |  | 1.8    | --                                        | --                                                            | 10                       |
| Total BTEX                   |            | M    | mg/kg  |  | < 0.01 | 6                                         | --                                                            | --                       |
| Total PCBs (7 congeners)     |            | M    | mg/kg  |  | < 0.03 | 1                                         | --                                                            | --                       |
| TPH Total WAC                |            | M    | mg/kg  |  | < 5    | 500                                       | --                                                            | --                       |
| Total (of 17) PAHs           |            | N    | mg/kg  |  | < 2    | 100                                       | --                                                            | --                       |
| pH                           |            | M    |        |  | 6.7    | --                                        | >6                                                            | --                       |
| Acid Neutralisation Capacity |            | N    | mol/kg |  | < 0.1  | --                                        | To evaluate                                                   | To evaluate              |

## Eluate Analysis

|                          |  |   | 10:1    |  | 10:1   | Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg |       |        |
|--------------------------|--|---|---------|--|--------|------------------------------------------------------------------------------|-------|--------|
|                          |  |   | mg/l    |  | mg/kg  |                                                                              |       |        |
| Arsenic                  |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 2     | 25     |
| Barium                   |  | N | < 0.005 |  | < 0.05 | 20                                                                           | 100   | 300    |
| Cadmium                  |  | N | < 0.001 |  | < 0.01 | 0.04                                                                         | 1     | 5      |
| Chromium                 |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 10    | 70     |
| Copper                   |  | N | < 0.005 |  | < 0.05 | 2                                                                            | 50    | 100    |
| Mercury                  |  | N | < 0.005 |  | < 0.01 | 0.01                                                                         | 0.2   | 2      |
| Molybdenum               |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 10    | 30     |
| Nickel                   |  | N | < 0.001 |  | < 0.05 | 0.4                                                                          | 10    | 40     |
| Lead                     |  | N | < 0.001 |  | < 0.05 | 0.5                                                                          | 10    | 50     |
| Antimony                 |  | N | < 0.005 |  | < 0.05 | 0.06                                                                         | 0.7   | 5      |
| Selenium                 |  | N | < 0.005 |  | < 0.05 | 0.1                                                                          | 0.5   | 7      |
| Zinc                     |  | N | < 0.005 |  | < 0.05 | 4                                                                            | 50    | 200    |
| Chloride                 |  | N | < 5     |  | < 50   | 800                                                                          | 15000 | 25000  |
| Fluoride                 |  | N | < 5     |  | < 10   | 10                                                                           | 150   | 500    |
| Sulphate                 |  | N | 5       |  | 45.70  | 1000                                                                         | 20000 | 50000  |
| Total Dissolved Solids   |  | N | < 10    |  | < 100  | 4000                                                                         | 60000 | 100000 |
| Phenol Index             |  | N | < 0.01  |  | < 0.10 | 1                                                                            | -     | -      |
| Dissolved Organic Carbon |  | N | 9.780   |  | 98.00  | 500                                                                          | 800   | 1000   |

## Leach Test Information

|                              |  |   |         |  |  |  |  |  |
|------------------------------|--|---|---------|--|--|--|--|--|
| pH                           |  | N | 5.7     |  |  |  |  |  |
| Conductivity (uS/cm)         |  | N | 28      |  |  |  |  |  |
| Dry mass of test portion (g) |  |   | 100.000 |  |  |  |  |  |
| Dry Matter (%)               |  |   | 83      |  |  |  |  |  |
| Moisture (%)                 |  |   | 21      |  |  |  |  |  |
| Eluent Volume (ml)           |  |   | 952     |  |  |  |  |  |

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Stated limits are for guidance only and ELAB cannot be held responsible for any discrepancies with current legislation

# Results Summary

Report No.: 17-13705

## WAC Analysis

|                              |            |      |        |  |        |                                           |                                                               |                          |
|------------------------------|------------|------|--------|--|--------|-------------------------------------------|---------------------------------------------------------------|--------------------------|
| Elab Ref:                    | 109956     |      |        |  |        | Landfill Waste Acceptance Criteria Limits |                                                               |                          |
| Sample Date:                 | 23/08/2017 |      |        |  |        | Inert Waste Landfill                      | Stable Non-reactive Hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID:                   | TP225      |      |        |  |        |                                           |                                                               |                          |
| Depth (m)                    | 0.3        |      |        |  |        |                                           |                                                               |                          |
| Site:                        | Woodcroft  |      |        |  |        |                                           |                                                               |                          |
|                              |            |      |        |  |        |                                           |                                                               |                          |
| Determinand                  |            | Code | Units  |  |        |                                           |                                                               |                          |
| Total Organic Carbon         |            | N    | %      |  | 0.40   | 3                                         | 5                                                             | 6                        |
| Loss on Ignition             |            | M    | %      |  | 2.6    | --                                        | --                                                            | 10                       |
| Total BTEX                   |            | M    | mg/kg  |  | < 0.01 | 6                                         | --                                                            | --                       |
| Total PCBs (7 congeners)     |            | M    | mg/kg  |  | < 0.03 | 1                                         | --                                                            | --                       |
| TPH Total WAC                |            | M    | mg/kg  |  | 11     | 500                                       | --                                                            | --                       |
| Total (of 17) PAHs           |            | N    | mg/kg  |  | 25.0   | 100                                       | --                                                            | --                       |
| pH                           |            | M    |        |  | 11.4   | --                                        | >6                                                            | --                       |
| Acid Neutralisation Capacity |            | N    | mol/kg |  | 0.2    | --                                        | To evaluate                                                   | To evaluate              |

## Eluate Analysis

|                          |  |   | 10:1    |  | 10:1   | Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg |       |        |
|--------------------------|--|---|---------|--|--------|------------------------------------------------------------------------------|-------|--------|
|                          |  |   | mg/l    |  | mg/kg  |                                                                              |       |        |
| Arsenic                  |  | N | 0.009   |  | 0.09   | 0.5                                                                          | 2     | 25     |
| Barium                   |  | N | 0.010   |  | 0.10   | 20                                                                           | 100   | 300    |
| Cadmium                  |  | N | < 0.001 |  | < 0.01 | 0.04                                                                         | 1     | 5      |
| Chromium                 |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 10    | 70     |
| Copper                   |  | N | 0.016   |  | 0.16   | 2                                                                            | 50    | 100    |
| Mercury                  |  | N | < 0.005 |  | < 0.01 | 0.01                                                                         | 0.2   | 2      |
| Molybdenum               |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 10    | 30     |
| Nickel                   |  | N | 0.003   |  | < 0.05 | 0.4                                                                          | 10    | 40     |
| Lead                     |  | N | 0.007   |  | 0.07   | 0.5                                                                          | 10    | 50     |
| Antimony                 |  | N | < 0.005 |  | < 0.05 | 0.06                                                                         | 0.7   | 5      |
| Selenium                 |  | N | < 0.005 |  | < 0.05 | 0.1                                                                          | 0.5   | 7      |
| Zinc                     |  | N | 0.016   |  | 0.16   | 4                                                                            | 50    | 200    |
| Chloride                 |  | N | 7       |  | 67.00  | 800                                                                          | 15000 | 25000  |
| Fluoride                 |  | N | < 5     |  | < 10   | 10                                                                           | 150   | 500    |
| Sulphate                 |  | N | 12      |  | 120.00 | 1000                                                                         | 20000 | 50000  |
| Total Dissolved Solids   |  | N | < 10    |  | < 100  | 4000                                                                         | 60000 | 100000 |
| Phenol Index             |  | N | < 0.01  |  | < 0.10 | 1                                                                            | -     | -      |
| Dissolved Organic Carbon |  | N | 12.300  |  | 123.00 | 500                                                                          | 800   | 1000   |

## Leach Test Information

|                              |  |   |         |  |  |  |  |  |
|------------------------------|--|---|---------|--|--|--|--|--|
| pH                           |  | N | 8.3     |  |  |  |  |  |
| Conductivity (uS/cm)         |  | N | 154     |  |  |  |  |  |
| Dry mass of test portion (g) |  |   | 100.000 |  |  |  |  |  |
| Dry Matter (%)               |  |   | 81      |  |  |  |  |  |
| Moisture (%)                 |  |   | 24      |  |  |  |  |  |
| Eluent Volume (ml)           |  |   | 953     |  |  |  |  |  |

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Stated limits are for guidance only and ELAB cannot be held responsible for any discrepancies with current legislation

# Results Summary

Report No.: 17-13705

## WAC Analysis

| Elab Ref:                    | 109952     |      |        |  |        | Landfill Waste Acceptance Criteria Limits |                                                               |                          |
|------------------------------|------------|------|--------|--|--------|-------------------------------------------|---------------------------------------------------------------|--------------------------|
| Sample Date:                 | 22/08/2017 |      |        |  |        | Inert Waste Landfill                      | Stable Non-reactive Hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID:                   | TP223      |      |        |  |        |                                           |                                                               |                          |
| Depth (m)                    | 0.5        |      |        |  |        |                                           |                                                               |                          |
| Site:                        | Woodcroft  |      |        |  |        |                                           |                                                               |                          |
|                              |            |      |        |  |        |                                           |                                                               |                          |
| Determinand                  |            | Code | Units  |  |        |                                           |                                                               |                          |
| Total Organic Carbon         |            | N    | %      |  | 0.18   | 3                                         | 5                                                             | 6                        |
| Loss on Ignition             |            | M    | %      |  | 2.8    | --                                        | --                                                            | 10                       |
| Total BTEX                   |            | M    | mg/kg  |  | < 0.01 | 6                                         | --                                                            | --                       |
| Total PCBs (7 congeners)     |            | M    | mg/kg  |  | < 0.03 | 1                                         | --                                                            | --                       |
| TPH Total WAC                |            | M    | mg/kg  |  | < 5    | 500                                       | --                                                            | --                       |
| Total (of 17) PAHs           |            | N    | mg/kg  |  | < 2    | 100                                       | --                                                            | --                       |
| pH                           |            | M    |        |  | 7.7    | --                                        | >6                                                            | --                       |
| Acid Neutralisation Capacity |            | N    | mol/kg |  | < 0.1  | --                                        | To evaluate                                                   | To evaluate              |

## Eluate Analysis

|                          |  |   | 10:1    |  | 10:1   | Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg |       |        |
|--------------------------|--|---|---------|--|--------|------------------------------------------------------------------------------|-------|--------|
|                          |  |   | mg/l    |  | mg/kg  |                                                                              |       |        |
| Arsenic                  |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 2     | 25     |
| Barium                   |  | N | < 0.005 |  | < 0.05 | 20                                                                           | 100   | 300    |
| Cadmium                  |  | N | < 0.001 |  | < 0.01 | 0.04                                                                         | 1     | 5      |
| Chromium                 |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 10    | 70     |
| Copper                   |  | N | 0.011   |  | 0.11   | 2                                                                            | 50    | 100    |
| Mercury                  |  | N | < 0.005 |  | < 0.01 | 0.01                                                                         | 0.2   | 2      |
| Molybdenum               |  | N | < 0.005 |  | < 0.05 | 0.5                                                                          | 10    | 30     |
| Nickel                   |  | N | 0.003   |  | < 0.05 | 0.4                                                                          | 10    | 40     |
| Lead                     |  | N | < 0.001 |  | < 0.05 | 0.5                                                                          | 10    | 50     |
| Antimony                 |  | N | < 0.005 |  | < 0.05 | 0.06                                                                         | 0.7   | 5      |
| Selenium                 |  | N | < 0.005 |  | < 0.05 | 0.1                                                                          | 0.5   | 7      |
| Zinc                     |  | N | < 0.005 |  | < 0.05 | 4                                                                            | 50    | 200    |
| Chloride                 |  | N | 6       |  | 65.00  | 800                                                                          | 15000 | 25000  |
| Fluoride                 |  | N | < 5     |  | < 10   | 10                                                                           | 150   | 500    |
| Sulphate                 |  | N | 6       |  | 58.00  | 1000                                                                         | 20000 | 50000  |
| Total Dissolved Solids   |  | N | < 10    |  | < 100  | 4000                                                                         | 60000 | 100000 |
| Phenol Index             |  | N | < 0.01  |  | < 0.10 | 1                                                                            | -     | -      |
| Dissolved Organic Carbon |  | N | 54.400  |  | 544.00 | 500                                                                          | 800   | 1000   |

## Leach Test Information

|                              |  |   |         |  |  |  |  |  |
|------------------------------|--|---|---------|--|--|--|--|--|
| pH                           |  | N | 7.7     |  |  |  |  |  |
| Conductivity (uS/cm)         |  | N | 117     |  |  |  |  |  |
| Dry mass of test portion (g) |  |   | 100.000 |  |  |  |  |  |
| Dry Matter (%)               |  |   | 79      |  |  |  |  |  |
| Moisture (%)                 |  |   | 27      |  |  |  |  |  |
| Eluent Volume (ml)           |  |   | 931     |  |  |  |  |  |

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Stated limits are for guidance only and ELAB cannot be held responsible for any discrepancies with current legislation

## Results Summary

Report No.: 17-13705

### Asbestos Results

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.

| Elab No | Depth (m) | Clients Reference | Description of Sample Matrix #                     | Asbestos Identification                  | Gravimetric Analysis Total (%) | Gravimetric Analysis by ACM Type (%) | Free Fibre Analysis (%) | Total Asbestos (%) |
|---------|-----------|-------------------|----------------------------------------------------|------------------------------------------|--------------------------------|--------------------------------------|-------------------------|--------------------|
| 109922  | 0.10      | TP202             | Brown sandy soil, stones, organics                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109925  | 0.50      | TP203             | Brown sandy soil, stones, organics                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109927  | 0.50      | TP204             | Brown sandy soil, stones                           | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109929  | 0.50      | TP205             | Brown sandy soil, stones                           | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109930  | 0.10      | TP206             | Brown sandy soil, stones, organics                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109932  | 0.30      | TP207             | Clay, stones                                       | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109938  | 1.00      | TP213             | Brown sandy soil, stones, concrete, brick, clinker | Chrysotile Crocidolite (asbestos cement) | 2.66                           | Asbestos cement (2.663%)             | < 0.001                 | 2.66               |
| 109939  | 0.90      | TP214             | Brown sandy soil, stones, brick, clinker, wood     | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109940  | 0.30      | TP215             | Brown sandy soil, stones, concrete, brick, clinker | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109941  | 2.90      | TP215             | Chalk, stones                                      | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109943  | 0.20      | TP217             | Clay, stones                                       | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109946  | 0.20      | TP220             | Brown sandy soil, stones, chalk, brick, clinker    | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109947  | 1.00      | TP220             | Brown sandy soil, stones                           | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109948  | 0.10      | TP221             | Brown sandy soil, stones, chalk, organics          | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109950  | 0.40      | TP222             | Brown soil, Stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109951  | 0.40      | TP223             | Brown soil, Stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109953  | 0.20      | TP224             | Brown soil, Stones, Brick                          | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109954  | 2.20      | TP224             | Brown soil                                         | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109955  | 0.25      | TP225             | Brown sandy soil, Stones, Brick                    | Chrysotile (Cement Fragment)             | 3.54                           | Cement Fragment (3.543)              | < 0.001                 | 3.54               |
| 109957  | 0.10      | TP226             | Brown soil                                         | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109959  | 0.15      | TP228             | Brown soil, Stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109960  | 0.60      | TP229             | Brown sandy soil                                   | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109962  | 0.40      | TP231             | Brown soil, Stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109963  | 0.10      | TP232             | Brown soil, stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109965  | 0.30      | TP234             | Brown soil, Stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109966  | 0.50      | TP235             | Brown soil                                         | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109967  | 0.30      | TP236             | Brown sandy soil, stones                           | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109968  | 0.40      | TP237             | Brown soil, Stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109970  | 0.20      | TP239             | Brown soil, Stones                                 | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |
| 109971  | 0.50      | TP239             | Cement fragment                                    | Chrysotile                               | 25.0                           | Cement Fragment (25)                 | < 0.001                 | 25.0               |
| 109972  | 1.50      | TP239             | Sand                                               | No asbestos detected                     | n/t                            | n/t                                  | n/t                     | n/t                |

## Method Summary

Report No.: 17-13705

| Parameter                               | Codes | Analysis Undertaken On | Date Tested | Method Number | Technique          |
|-----------------------------------------|-------|------------------------|-------------|---------------|--------------------|
| <b>Soil</b>                             |       |                        |             |               |                    |
| Sulphide                                | N     | As submitted sample    | 25/08/2017  | 109           | Colorimetry        |
| Hexavalent chromium                     | N     | As submitted sample    | 25/08/2017  | 110           | Colorimetry        |
| Acid Soluble Sulphate                   | U     | Air dried sample       | 29/08/2017  | 115           | Ion Chromatography |
| Aqua regia extractable metals           | M     | Air dried sample       | 25/08/2017  | 118           | ICPMS              |
| Phenols in solids                       | N     | As submitted sample    | 25/08/2017  | 121           | HPLC               |
| Elemental Sulphur                       | N     | Air dried sample       | 25/08/2017  | 122           | HPLC               |
| PAH (GC-FID)                            | M     | As submitted sample    | 29/08/2017  | 133           | GC-FID             |
| Water soluble anions                    | M     | Air dried sample       | 25/08/2017  | 172           | Ion Chromatography |
| Water soluble boron                     | N     | Air dried sample       | 25/08/2017  | 202           | Colorimetry        |
| Total cyanide                           | M     | As submitted sample    | 25/08/2017  | 204           | Colorimetry        |
| Aliphatic hydrocarbons in soil          | N     | As submitted sample    | 29/08/2017  | 214           | GC-FID             |
| Aliphatic/Aromatic hydrocarbons in soil | N     | As submitted sample    | 29/08/2017  | 214           | GC-FID             |
| Aromatic hydrocarbons in soil           | N     | As submitted sample    | 29/08/2017  | 214           | GC-FID             |
| Low range Aliphatic hydrocarbons soil   | N     | As submitted sample    | 25/08/2017  | 214           | GC-MS              |
| Low range Aromatic hydrocarbons soil    | N     | As submitted sample    | 25/08/2017  | 214           | GC-MS              |
| Asbestos identification                 | U     | As submitted sample    | 25/08/2017  | 260           | Microscopy         |
| <b>Leachate</b>                         |       |                        |             |               |                    |
| Arsenic*                                | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Cadmium*                                | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Chromium*                               | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Lead*                                   | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Nickel*                                 | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Copper*                                 | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Zinc*                                   | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Mercury*                                | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Selenium*                               | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Antimony                                | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Barium*                                 | N     |                        | 30/08/2017  | 101           | ICPMS              |
| Molybdenum*                             | N     |                        | 30/08/2017  | 101           | ICPMS              |
| pH Value*                               | N     |                        | 30/08/2017  | 113           | Electrometric      |
| Electrical Conductivity*                | N     |                        | 30/08/2017  | 136           | Probe              |
| Dissolved Organic Carbon                | N     |                        | 30/08/2017  | 102           | TOC analyser       |
| Chloride*                               | N     |                        | 30/08/2017  | 131           | Ion Chromatography |
| Fluoride*                               | N     |                        | 30/08/2017  | 131           | Ion Chromatography |
| Sulphate*                               | N     |                        | 30/08/2017  | 131           | Ion Chromatography |
| Total Dissolved Solids                  | N     |                        | 30/08/2017  | 144           | Gravimetric        |
| Phenol index                            | N     |                        | 30/08/2017  | 121           | HPLC               |
| <b>WAC Solids analysis</b>              |       |                        |             |               |                    |
| pH Value**                              | M     | Air dried sample       | 29/08/2017  | 113           | Electrometric      |
| Total Organic Carbon                    | N     | Air dried sample       | 29/08/2017  | 210           | IR                 |
| Loss on Ignition**                      | M     | Air dried sample       | 30/08/2017  | 129           | Gravimetric        |
| Acid Neutralization Capacity to pH 7    | N     | Air dried sample       | 29/08/2017  | NEN 737       | Electrometric      |
| Total BTEX**                            | M     | As submitted sample    | 25/08/2017  | 181           | GCMS               |
| Mineral Oil**                           | U     | As submitted sample    | 29/08/2017  | 117           | GCFID              |
| Total PCBs (7 congeners)                | M     | Air dried sample       | 25/08/2017  | 120           | GCMS               |
| Total PAH (17)**                        | N     | As submitted sample    | 29/08/2017  | 133           | GCFID              |

Tests marked N are not UKAS accredited

## Report Information

Report No.: 17-13705

### Key

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|     |                                                                          |
|-----|--------------------------------------------------------------------------|
| U   | hold UKAS accreditation                                                  |
| M   | hold MCERTS and UKAS accreditation                                       |
| N   | do not currently hold UKAS accreditation                                 |
| ^   | MCERTS accreditation not applicable for sample matrix                    |
| *   | UKAS accreditation not applicable for sample matrix                      |
| S   | Subcontracted to approved laboratory UKAS Accredited for the test        |
| SM  | Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test |
| I/S | Insufficient Sample                                                      |
| U/S | Unsuitable sample                                                        |
| n/t | Not tested                                                               |
| <   | means "less than"                                                        |
| >   | means "greater than"                                                     |

Soil sample results are expressed on an air dried basis (dried at < 30°C)

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

### Deviation Codes

- 
- |   |                                                          |
|---|----------------------------------------------------------|
| a | No date of sampling supplied                             |
| b | No time of sampling supplied (Waters Only)               |
| c | Sample not received in appropriate containers            |
| d | Sample not received in cooled condition                  |
| e | The container has been incorrectly filled                |
| f | Sample age exceeds stability time (sampling to receipt)  |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

### Sample Retention and Disposal

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All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



Unit A2  
Windmill Road  
Ponswood Industrial Estate  
St Leonards on Sea  
East Sussex  
TN38 9BY

Telephone: (01424) 718618

Facsimile: (01424) 729911

[info@elab-uk.co.uk](mailto:info@elab-uk.co.uk)

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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 18-17643

**Issue:** 1

**Date of Issue:** 30/05/2018

**Contact:** Fiona Goode

**Customer Details:** GESL  
Unit 7  
Danworth Farm  
Hurstpierpoint  
West Sussex  
BN6 9GL

**Quotation No:** Q14-00021

**Order No:** PO-0331

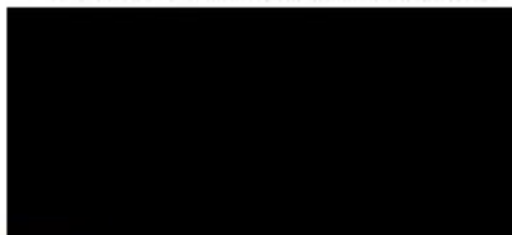
**Customer Reference:** GE16943

**Date Received:** 21/05/2018

**Date Approved:** 30/05/2018

**Details:** Woodcroft, Waterlooville

**Approved by:**



Mike Varley, Technical Manager

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

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## Sample Summary

Report No.: 18-17643

| Elab No. | Client's Ref.     | Date Sampled | Date Scheduled | Description        | Deviations |
|----------|-------------------|--------------|----------------|--------------------|------------|
| 136637   | WS401 0.60 - 0.80 | 15/05/2018   | 21/05/2018     | Clayey loam        |            |
| 136638   | WS401 1.40 - 1.70 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136639   | WS401 2.30 - 2.60 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136640   | WS402 0.50        | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136641   | WS402 1.50        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136642   | WS402 2.50        | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136643   | WS402 3.70 - 4.00 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136644   | WS403 0.30 - 0.50 | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136645   | WS403 1.50 - 1.60 | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136646   | WS403 2.40 - 2.60 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136647   | WS404 0.20 - 0.40 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136648   | WS404 1.10 - 1.30 | 15/05/2018   | 21/05/2018     | Clayey loam        |            |
| 136649   | WS405 0.00 - 0.20 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136650   | WS405 0.40 - 0.60 | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136651   | WS405 1.20        | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136652   | WS406 0.20 - 0.50 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136653   | WS406 1.60 - 1.90 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136654   | WS406 3.10 - 3.50 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136655   | WS407 0.30 - 0.50 | 15/05/2018   | 21/05/2018     | Sandy silty loam   |            |
| 136656   | WS407 1.00 - 2.00 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136657   | WS407 3.00 - 4.00 | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136658   | TP301 0.25        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136659   | TP301 0.40        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136660   | TP301 1.40        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136661   | TP302 0.20        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136662   | TP302 0.50        | 16/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136663   | TP302 1.30        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136664   | TP302 2.70        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136665   | TP303 0.30        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136666   | TP303 0.70        | 16/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136667   | TP303 1.90        | 16/05/2018   | 21/05/2018     | chalk              |            |
| 136668   | TP304 0.30        | 16/05/2018   | 21/05/2018     | Silty loam         |            |
| 136669   | TP304 1.20        | 16/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136670   | TP305 0.80        | 16/05/2018   | 21/05/2018     | Clayey loam        |            |
| 136671   | TP305 1.10        | 16/05/2018   | 21/05/2018     | Clayey loam        |            |
| 136672   | TP306 0.20        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136673   | TP306 0.40        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136674   | TP306 0.80        | 15/05/2018   | 21/05/2018     | Sandy silty loam   |            |
| 136675   | TP307 0.30        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136676   | TP307 0.80        | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136677   | TP307 1.20        | 15/05/2018   | 21/05/2018     | Sand               |            |
| 136678   | TP308 0.10        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136679   | TP308 0.30        | 15/05/2018   | 21/05/2018     | Sandy silty loam   |            |
| 136680   | TP308 0.70        | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136681   | TP309 0.25        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136682   | TP309 0.50        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136683   | TP309 0.65        | 15/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136684   | TP310 0.20        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136685   | TP310 0.50        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136686   | TP310 1.50        | 15/05/2018   | 21/05/2018     | chalk              |            |
| 136687   | TP311 0.20        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136688   | TP311 0.40        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136689   | TP311 0.80        | 15/05/2018   | 21/05/2018     | Silty loam         |            |
| 136690   | TP312 0.20        | 17/05/2018   | 21/05/2018     | Silty loam         |            |
| 136691   | TP312 0.90        | 17/05/2018   | 21/05/2018     | Silty loam         |            |
| 136692   | TP312 1.45        | 17/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136693   | TP313 0.25        | 17/05/2018   | 21/05/2018     | Silty loam + chalk |            |
| 136694   | TP313 0.50        | 17/05/2018   | 21/05/2018     | Sandy silty loam   |            |
| 136695   | TP313 1.55        | 17/05/2018   | 21/05/2018     | Loamy sand         |            |
| 136696   | TP314 0.30        | 17/05/2018   | 21/05/2018     | Clayey loam        |            |
| 136697   | TP314 0.70        | 17/05/2018   | 21/05/2018     | Silty loam         |            |
| 136698   | TP314 1.60        | 17/05/2018   | 21/05/2018     | Silty clayey loam  |            |
| 136699   | TP315 0.20        | 17/05/2018   | 21/05/2018     | Silty loam         |            |
| 136700   | TP315 0.60        | 17/05/2018   | 21/05/2018     | Silty loam         |            |

## Sample Summary

Report No.: 18-17643

| Elab No. | Client's Ref. | Date Sampled | Date Scheduled | Description       | Deviations |
|----------|---------------|--------------|----------------|-------------------|------------|
| 136701   | TP315 2.30    | 17/05/2018   | 21/05/2018     | Clayey loam       |            |
| 136702   | TP316 0.20    | 17/05/2018   | 21/05/2018     | Sandy silty loam  |            |
| 136703   | TP316 0.90    | 17/05/2018   | 21/05/2018     | Silty clayey loam |            |
| 136704   | TP316 1.90    | 17/05/2018   | 21/05/2018     | Clayey loam       |            |
| 136705   | TP317 0.15    | 17/05/2018   | 21/05/2018     | Silty loam        |            |
| 136706   | TP317 0.65    | 17/05/2018   | 21/05/2018     | Clayey loam       |            |
| 136707   | TP317 1.40    | 17/05/2018   | 21/05/2018     | Sandy loam        |            |
| 136708   | TP318 0.15    | 17/05/2018   | 21/05/2018     | Silty loam        |            |
| 136709   | TP318 0.70    | 17/05/2018   | 21/05/2018     | Silty clayey loam |            |
| 136710   | TP319 1.80    | 17/05/2018   | 21/05/2018     | Clayey loam       |            |

# Results Summary

Report No.: 18-17643

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|                    |             |             |             |            |            |            |
|--------------------|-------------|-------------|-------------|------------|------------|------------|
| ELAB Reference     | 136637      | 136638      | 136639      | 136640     | 136641     | 136642     |
| Customer Reference |             |             |             |            |            |            |
| Sample ID          |             |             |             |            |            |            |
| Sample Type        | SOIL        | SOIL        | SOIL        | SOIL       | SOIL       | SOIL       |
| Sample Location    | WS401       | WS401       | WS401       | WS402      | WS402      | WS402      |
| Sample Depth (m)   | 0.60 - 0.80 | 1.40 - 1.70 | 2.30 - 2.60 | 0.50       | 1.50       | 2.50       |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018 | 15/05/2018 | 15/05/2018 |

| Determinand                      | Codes | Units    | LOD  |      |     |     |      |     |      |
|----------------------------------|-------|----------|------|------|-----|-----|------|-----|------|
| <b>Metals</b>                    |       |          |      |      |     |     |      |     |      |
| Arsenic                          | M     | mg/kg    | 1    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Barium                           | U     | mg/kg    | 10   | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Beryllium                        | U     | mg/kg    | 1    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Cadmium                          | M     | mg/kg    | 0.5  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Chromium                         | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Copper                           | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Lead                             | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Mercury                          | M     | mg/kg    | 0.5  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Nickel                           | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Selenium                         | M     | mg/kg    | 1    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Vanadium                         | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Zinc                             | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| <b>Anions</b>                    |       |          |      |      |     |     |      |     |      |
| Water Soluble Chloride           | M     | mg/kg    | 40   | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| <b>Inorganics</b>                |       |          |      |      |     |     |      |     |      |
| Elemental Sulphur                | M     | mg/kg    | 20   | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Total Sulphide                   | N     | mg/kg    | 2    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Total Cyanide                    | M     | mg/kg    | 1    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| <b>Miscellaneous</b>             |       |          |      |      |     |     |      |     |      |
| pH                               | M     | pH units | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Total Organic Carbon             | N     | %        | 0.01 | 0.51 | 1.9 | 2.2 | 0.47 | 1.4 | 0.49 |
| <b>Phenols</b>                   |       |          |      |      |     |     |      |     |      |
| Total Phenols                    | N     | mg/kg    | 6    | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |      |     |     |      |     |      |
| Naphthalene                      | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Fluorene                         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Anthracene                       | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Pyrene                           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Chrysene                         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| <b>BTEX</b>                      |       |          |      |      |     |     |      |     |      |
| Benzene                          | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Toluene                          | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Ethylbenzene                     | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t  | n/t | n/t  |
| Xylenes                          | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t  | n/t | n/t  |

# Results Summary

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|                    |             |             |             |            |            |            |
|--------------------|-------------|-------------|-------------|------------|------------|------------|
| ELAB Reference     | 136637      | 136638      | 136639      | 136640     | 136641     | 136642     |
| Customer Reference |             |             |             |            |            |            |
| Sample ID          |             |             |             |            |            |            |
| Sample Type        | SOIL        | SOIL        | SOIL        | SOIL       | SOIL       | SOIL       |
| Sample Location    | WS401       | WS401       | WS401       | WS402      | WS402      | WS402      |
| Sample Depth (m)   | 0.60 - 0.80 | 1.40 - 1.70 | 2.30 - 2.60 | 0.50       | 1.50       | 2.50       |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018 | 15/05/2018 | 15/05/2018 |

| Determinand             | Codes | Units | LOD  |     |     |     |     |     |     |
|-------------------------|-------|-------|------|-----|-----|-----|-----|-----|-----|
| <b>TPH CWG</b>          |       |       |      |     |     |     |     |     |     |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |

# Results Summary

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|                    |             |             |             |             |             |             |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ELAB Reference     | 136643      | 136644      | 136645      | 136646      | 136647      | 136648      |
| Customer Reference |             |             |             |             |             |             |
| Sample ID          |             |             |             |             |             |             |
| Sample Type        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
| Sample Location    | WS402       | WS403       | WS403       | WS403       | WS404       | WS404       |
| Sample Depth (m)   | 3.70 - 4.00 | 0.30 - 0.50 | 1.50 - 1.60 | 2.40 - 2.60 | 0.20 - 0.40 | 1.10 - 1.30 |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018  |

| Determinand                      | Codes | Units    | LOD  |      |      |      |      |     |      |
|----------------------------------|-------|----------|------|------|------|------|------|-----|------|
| <b>Metals</b>                    |       |          |      |      |      |      |      |     |      |
| Arsenic                          | M     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Barium                           | U     | mg/kg    | 10   | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Beryllium                        | U     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Cadmium                          | M     | mg/kg    | 0.5  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Chromium                         | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Copper                           | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Lead                             | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Mercury                          | M     | mg/kg    | 0.5  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Nickel                           | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Selenium                         | M     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Vanadium                         | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Zinc                             | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| <b>Anions</b>                    |       |          |      |      |      |      |      |     |      |
| Water Soluble Chloride           | M     | mg/kg    | 40   | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| <b>Inorganics</b>                |       |          |      |      |      |      |      |     |      |
| Elemental Sulphur                | M     | mg/kg    | 20   | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Total Sulphide                   | N     | mg/kg    | 2    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Total Cyanide                    | M     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| <b>Miscellaneous</b>             |       |          |      |      |      |      |      |     |      |
| pH                               | M     | pH units | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Total Organic Carbon             | N     | %        | 0.01 | 0.68 | 0.61 | 0.69 | 0.19 | 2.5 | 0.20 |
| <b>Phenols</b>                   |       |          |      |      |      |      |      |     |      |
| Total Phenols                    | N     | mg/kg    | 6    | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |      |      |      |      |     |      |
| Naphthalene                      | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Fluorene                         | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Anthracene                       | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Pyrene                           | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Chrysene                         | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| <b>BTEX</b>                      |       |          |      |      |      |      |      |     |      |
| Benzene                          | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Toluene                          | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Ethylbenzene                     | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |
| Xylenes                          | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t  | n/t | n/t  |

# Results Summary

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|                    |             |             |             |             |             |             |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ELAB Reference     | 136643      | 136644      | 136645      | 136646      | 136647      | 136648      |
| Customer Reference |             |             |             |             |             |             |
| Sample ID          |             |             |             |             |             |             |
| Sample Type        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
| Sample Location    | WS402       | WS403       | WS403       | WS403       | WS404       | WS404       |
| Sample Depth (m)   | 3.70 - 4.00 | 0.30 - 0.50 | 1.50 - 1.60 | 2.40 - 2.60 | 0.20 - 0.40 | 1.10 - 1.30 |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018  | 15/05/2018  |

| Determinand             | Codes | Units | LOD  |     |     |     |     |     |     |
|-------------------------|-------|-------|------|-----|-----|-----|-----|-----|-----|
| <b>TPH CWG</b>          |       |       |      |     |     |     |     |     |     |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |

# Results Summary

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|                    |             |             |            |             |             |             |
|--------------------|-------------|-------------|------------|-------------|-------------|-------------|
| ELAB Reference     | 136649      | 136650      | 136651     | 136652      | 136653      | 136654      |
| Customer Reference |             |             |            |             |             |             |
| Sample ID          |             |             |            |             |             |             |
| Sample Type        | SOIL        | SOIL        | SOIL       | SOIL        | SOIL        | SOIL        |
| Sample Location    | WS405       | WS405       | WS405      | WS406       | WS406       | WS406       |
| Sample Depth (m)   | 0.00 - 0.20 | 0.40 - 0.60 | 1.20       | 0.20 - 0.50 | 1.60 - 1.90 | 3.10 - 3.50 |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018 | 15/05/2018  | 15/05/2018  | 15/05/2018  |

| Determinand                      | Codes | Units    | LOD  |     |     |      |      |     |     |
|----------------------------------|-------|----------|------|-----|-----|------|------|-----|-----|
| <b>Metals</b>                    |       |          |      |     |     |      |      |     |     |
| Arsenic                          | M     | mg/kg    | 1    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Barium                           | U     | mg/kg    | 10   | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Beryllium                        | U     | mg/kg    | 1    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Cadmium                          | M     | mg/kg    | 0.5  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Chromium                         | M     | mg/kg    | 5    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Copper                           | M     | mg/kg    | 5    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Lead                             | M     | mg/kg    | 5    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Mercury                          | M     | mg/kg    | 0.5  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Nickel                           | M     | mg/kg    | 5    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Selenium                         | M     | mg/kg    | 1    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Vanadium                         | M     | mg/kg    | 5    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Zinc                             | M     | mg/kg    | 5    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| <b>Anions</b>                    |       |          |      |     |     |      |      |     |     |
| Water Soluble Chloride           | M     | mg/kg    | 40   | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | n/t | n/t | n/t  | n/t  | n/t | n/t |
| <b>Inorganics</b>                |       |          |      |     |     |      |      |     |     |
| Elemental Sulphur                | M     | mg/kg    | 20   | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Total Sulphide                   | N     | mg/kg    | 2    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Total Cyanide                    | M     | mg/kg    | 1    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| <b>Miscellaneous</b>             |       |          |      |     |     |      |      |     |     |
| pH                               | M     | pH units | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Total Organic Carbon             | N     | %        | 0.01 | 1.6 | 1.0 | 0.87 | 0.98 | 1.4 | 3.8 |
| <b>Phenols</b>                   |       |          |      |     |     |      |      |     |     |
| Total Phenols                    | N     | mg/kg    | 6    | n/t | n/t | n/t  | n/t  | n/t | n/t |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |     |     |      |      |     |     |
| Naphthalene                      | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Acenaphthene                     | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Fluorene                         | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Phenanthrene                     | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Anthracene                       | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Fluoranthene                     | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Pyrene                           | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Chrysene                         | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | n/t | n/t | n/t  | n/t  | n/t | n/t |
| <b>BTEX</b>                      |       |          |      |     |     |      |      |     |     |
| Benzene                          | M     | ug/kg    | 10   | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Toluene                          | M     | ug/kg    | 10   | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Ethylbenzene                     | M     | ug/kg    | 10   | n/t | n/t | n/t  | n/t  | n/t | n/t |
| Xylenes                          | M     | ug/kg    | 10   | n/t | n/t | n/t  | n/t  | n/t | n/t |

# Results Summary

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|                    |             |             |            |             |             |             |
|--------------------|-------------|-------------|------------|-------------|-------------|-------------|
| ELAB Reference     | 136649      | 136650      | 136651     | 136652      | 136653      | 136654      |
| Customer Reference |             |             |            |             |             |             |
| Sample ID          |             |             |            |             |             |             |
| Sample Type        | SOIL        | SOIL        | SOIL       | SOIL        | SOIL        | SOIL        |
| Sample Location    | WS405       | WS405       | WS405      | WS406       | WS406       | WS406       |
| Sample Depth (m)   | 0.00 - 0.20 | 0.40 - 0.60 | 1.20       | 0.20 - 0.50 | 1.60 - 1.90 | 3.10 - 3.50 |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018 | 15/05/2018  | 15/05/2018  | 15/05/2018  |

| Determinand             | Codes | Units | LOD  |     |     |     |     |     |     |
|-------------------------|-------|-------|------|-----|-----|-----|-----|-----|-----|
| <b>TPH CWG</b>          |       |       |      |     |     |     |     |     |     |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |

# Results Summary

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|                    |             |             |             |            |            |            |
|--------------------|-------------|-------------|-------------|------------|------------|------------|
| ELAB Reference     | 136655      | 136656      | 136657      | 136658     | 136659     | 136660     |
| Customer Reference |             |             |             |            |            |            |
| Sample ID          |             |             |             |            |            |            |
| Sample Type        | SOIL        | SOIL        | SOIL        | SOIL       | SOIL       | SOIL       |
| Sample Location    | WS407       | WS407       | WS407       | TP301      | TP301      | TP301      |
| Sample Depth (m)   | 0.30 - 0.50 | 1.00 - 2.00 | 3.00 - 4.00 | 0.25       | 0.40       | 1.40       |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018  | 16/05/2018 | 16/05/2018 | 16/05/2018 |

| Determinand                      | Codes | Units    | LOD  |      |     |     |     |      |     |
|----------------------------------|-------|----------|------|------|-----|-----|-----|------|-----|
| <b>Metals</b>                    |       |          |      |      |     |     |     |      |     |
| Arsenic                          | M     | mg/kg    | 1    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Barium                           | U     | mg/kg    | 10   | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Beryllium                        | U     | mg/kg    | 1    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Cadmium                          | M     | mg/kg    | 0.5  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Chromium                         | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Copper                           | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Lead                             | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Mercury                          | M     | mg/kg    | 0.5  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Nickel                           | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Selenium                         | M     | mg/kg    | 1    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Vanadium                         | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Zinc                             | M     | mg/kg    | 5    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| <b>Anions</b>                    |       |          |      |      |     |     |     |      |     |
| Water Soluble Chloride           | M     | mg/kg    | 40   | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | n/t  | n/t | n/t | n/t | n/t  | n/t |
| <b>Inorganics</b>                |       |          |      |      |     |     |     |      |     |
| Elemental Sulphur                | M     | mg/kg    | 20   | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Total Sulphide                   | N     | mg/kg    | 2    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Total Cyanide                    | M     | mg/kg    | 1    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| <b>Miscellaneous</b>             |       |          |      |      |     |     |     |      |     |
| pH                               | M     | pH units | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Total Organic Carbon             | N     | %        | 0.01 | 0.72 | 1.2 | 2.1 | 1.7 | 0.80 | 2.3 |
| <b>Phenols</b>                   |       |          |      |      |     |     |     |      |     |
| Total Phenols                    | N     | mg/kg    | 6    | n/t  | n/t | n/t | n/t | n/t  | n/t |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |      |     |     |     |      |     |
| Naphthalene                      | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Acenaphthene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Fluorene                         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Phenanthrene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Anthracene                       | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Fluoranthene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Pyrene                           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Chrysene                         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | n/t  | n/t | n/t | n/t | n/t  | n/t |
| <b>BTEX</b>                      |       |          |      |      |     |     |     |      |     |
| Benzene                          | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Toluene                          | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Ethylbenzene                     | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t | n/t  | n/t |
| Xylenes                          | M     | ug/kg    | 10   | n/t  | n/t | n/t | n/t | n/t  | n/t |

# Results Summary

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|                    |             |             |             |            |            |            |
|--------------------|-------------|-------------|-------------|------------|------------|------------|
| ELAB Reference     | 136655      | 136656      | 136657      | 136658     | 136659     | 136660     |
| Customer Reference |             |             |             |            |            |            |
| Sample ID          |             |             |             |            |            |            |
| Sample Type        | SOIL        | SOIL        | SOIL        | SOIL       | SOIL       | SOIL       |
| Sample Location    | WS407       | WS407       | WS407       | TP301      | TP301      | TP301      |
| Sample Depth (m)   | 0.30 - 0.50 | 1.00 - 2.00 | 3.00 - 4.00 | 0.25       | 0.40       | 1.40       |
| Sampling Date      | 15/05/2018  | 15/05/2018  | 15/05/2018  | 16/05/2018 | 16/05/2018 | 16/05/2018 |

| Determinand             | Codes | Units | LOD  |     |     |     |     |     |     |
|-------------------------|-------|-------|------|-----|-----|-----|-----|-----|-----|
| <b>TPH CWG</b>          |       |       |      |     |     |     |     |     |     |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136661     | 136662     | 136663     | 136664     | 136665     | 136666     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP302      | TP302      | TP302      | TP302      | TP303      | TP303      |
| Sample Depth (m)   | 0.20       | 0.50       | 1.30       | 2.70       | 0.30       | 0.70       |
| Sampling Date      | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 |

| Determinand                      | Codes | Units    | LOD  |      |      |      |     |     |      |
|----------------------------------|-------|----------|------|------|------|------|-----|-----|------|
| <b>Metals</b>                    |       |          |      |      |      |      |     |     |      |
| Arsenic                          | M     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Barium                           | U     | mg/kg    | 10   | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Beryllium                        | U     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Cadmium                          | M     | mg/kg    | 0.5  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Chromium                         | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Copper                           | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Lead                             | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Mercury                          | M     | mg/kg    | 0.5  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Nickel                           | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Selenium                         | M     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Vanadium                         | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Zinc                             | M     | mg/kg    | 5    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| <b>Anions</b>                    |       |          |      |      |      |      |     |     |      |
| Water Soluble Chloride           | M     | mg/kg    | 40   | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| <b>Inorganics</b>                |       |          |      |      |      |      |     |     |      |
| Elemental Sulphur                | M     | mg/kg    | 20   | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Total Sulphide                   | N     | mg/kg    | 2    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Total Cyanide                    | M     | mg/kg    | 1    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| <b>Miscellaneous</b>             |       |          |      |      |      |      |     |     |      |
| pH                               | M     | pH units | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Total Organic Carbon             | N     | %        | 0.01 | 0.48 | 0.77 | 0.64 | 1.3 | 2.1 | 0.21 |
| <b>Phenols</b>                   |       |          |      |      |      |      |     |     |      |
| Total Phenols                    | N     | mg/kg    | 6    | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |      |      |      |     |     |      |
| Naphthalene                      | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Fluorene                         | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Anthracene                       | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Pyrene                           | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Chrysene                         | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| <b>BTEX</b>                      |       |          |      |      |      |      |     |     |      |
| Benzene                          | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Toluene                          | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Ethylbenzene                     | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t | n/t | n/t  |
| Xylenes                          | M     | ug/kg    | 10   | n/t  | n/t  | n/t  | n/t | n/t | n/t  |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136661     | 136662     | 136663     | 136664     | 136665     | 136666     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP302      | TP302      | TP302      | TP302      | TP303      | TP303      |
| Sample Depth (m)   | 0.20       | 0.50       | 1.30       | 2.70       | 0.30       | 0.70       |
| Sampling Date      | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 |

| Determinand             | Codes | Units | LOD  |     |     |     |     |     |     |
|-------------------------|-------|-------|------|-----|-----|-----|-----|-----|-----|
| <b>TPH CWG</b>          |       |       |      |     |     |     |     |     |     |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | n/t |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | n/t |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136667     | 136668     | 136669     | 136670     | 136671     | 136672     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP303      | TP304      | TP304      | TP305      | TP305      | TP306      |
| Sample Depth (m)   | 1.90       | 0.30       | 1.20       | 0.80       | 1.10       | 0.20       |
| Sampling Date      | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 15/05/2018 |

| Determinand                      | Codes | Units    | LOD  |      |     |      |      |     |        |
|----------------------------------|-------|----------|------|------|-----|------|------|-----|--------|
| <b>Metals</b>                    |       |          |      |      |     |      |      |     |        |
| Arsenic                          | M     | mg/kg    | 1    | n/t  | n/t | n/t  | n/t  | n/t | 9.2    |
| Barium                           | U     | mg/kg    | 10   | n/t  | n/t | n/t  | n/t  | n/t | 51.3   |
| Beryllium                        | U     | mg/kg    | 1    | n/t  | n/t | n/t  | n/t  | n/t | < 1.0  |
| Cadmium                          | M     | mg/kg    | 0.5  | n/t  | n/t | n/t  | n/t  | n/t | < 0.5  |
| Chromium                         | M     | mg/kg    | 5    | n/t  | n/t | n/t  | n/t  | n/t | 23.1   |
| Copper                           | M     | mg/kg    | 5    | n/t  | n/t | n/t  | n/t  | n/t | 7.9    |
| Lead                             | M     | mg/kg    | 5    | n/t  | n/t | n/t  | n/t  | n/t | 18.6   |
| Mercury                          | M     | mg/kg    | 0.5  | n/t  | n/t | n/t  | n/t  | n/t | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | n/t  | n/t | n/t  | n/t  | n/t | 15.7   |
| Selenium                         | M     | mg/kg    | 1    | n/t  | n/t | n/t  | n/t  | n/t | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | n/t  | n/t | n/t  | n/t  | n/t | 34.7   |
| Zinc                             | M     | mg/kg    | 5    | n/t  | n/t | n/t  | n/t  | n/t | 55.8   |
| <b>Anions</b>                    |       |          |      |      |     |      |      |     |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | n/t  | n/t | n/t  | n/t  | n/t | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | n/t  | n/t | n/t  | n/t  | n/t | < 0.02 |
| <b>Inorganics</b>                |       |          |      |      |     |      |      |     |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | n/t  | n/t | n/t  | n/t  | n/t | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | n/t  | n/t | n/t  | n/t  | n/t | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | n/t  | n/t | n/t  | n/t  | n/t | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | n/t  | n/t | n/t  | n/t  | n/t | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | n/t  | n/t | n/t  | n/t  | n/t | 0.07   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | n/t  | n/t | n/t  | n/t  | n/t | 0.7    |
| <b>Miscellaneous</b>             |       |          |      |      |     |      |      |     |        |
| pH                               | M     | pH units | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | 6.1    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.05 | 2.7 | 0.20 | 0.74 | 1.2 | 0.48   |
| <b>Phenols</b>                   |       |          |      |      |     |      |      |     |        |
| Total Phenols                    | N     | mg/kg    | 6    | n/t  | n/t | n/t  | n/t  | n/t | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |      |     |      |      |     |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Anthracene                       | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Pyrene                           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Chrysene                         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | n/t  | n/t | n/t  | n/t  | n/t | < 0.1  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | n/t  | n/t | n/t  | n/t  | n/t | < 0.4  |
| <b>BTEX</b>                      |       |          |      |      |     |      |      |     |        |
| Benzene                          | M     | ug/kg    | 10   | n/t  | n/t | n/t  | n/t  | n/t | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | n/t  | n/t | n/t  | n/t  | n/t | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | n/t  | n/t | n/t  | n/t  | n/t | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | n/t  | n/t | n/t  | n/t  | n/t | < 10.0 |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136667     | 136668     | 136669     | 136670     | 136671     | 136672     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP303      | TP304      | TP304      | TP305      | TP305      | TP306      |
| Sample Depth (m)   | 1.90       | 0.30       | 1.20       | 0.80       | 1.10       | 0.20       |
| Sampling Date      | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 16/05/2018 | 15/05/2018 |

| Determinand             | Codes | Units | LOD  |     |     |     |     |     |        |
|-------------------------|-------|-------|------|-----|-----|-----|-----|-----|--------|
| <b>TPH CWG</b>          |       |       |      |     |     |     |     |     |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | n/t | n/t | n/t | n/t | n/t | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | n/t | n/t | n/t | n/t | n/t | < 1.0  |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136673     | 136674     | 136675     | 136676     | 136677     | 136678     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP306      | TP306      | TP307      | TP307      | TP307      | TP308      |
| Sample Depth (m)   | 0.40       | 0.80       | 0.30       | 0.80       | 1.20       | 0.10       |
| Sampling Date      | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 |

| Determinand                      | Codes | Units    | LOD  |        |        |        |        |        |        |
|----------------------------------|-------|----------|------|--------|--------|--------|--------|--------|--------|
| <b>Metals</b>                    |       |          |      |        |        |        |        |        |        |
| Arsenic                          | M     | mg/kg    | 1    | 19.0   | 30.7   | 14.6   | 19.6   | 76.9   | 15.6   |
| Barium                           | U     | mg/kg    | 10   | 82.6   | 63.1   | 52.6   | 71.7   | 36.8   | 35.7   |
| Beryllium                        | U     | mg/kg    | 1    | 1.2    | 2.0    | 1.6    | 6.4    | 2.9    | < 1.0  |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5  | 0.6    | 0.5    | 2.4    | 1.4    | < 0.5  |
| Chromium                         | M     | mg/kg    | 5    | 43.5   | 39.1   | 32.0   | 47.0   | 37.8   | 20.4   |
| Copper                           | M     | mg/kg    | 5    | 18.2   | 18.0   | 11.9   | 14.6   | 21.1   | 7.8    |
| Lead                             | M     | mg/kg    | 5    | 17.7   | 17.2   | 17.5   | 16.2   | 20.4   | 15.7   |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 29.5   | 27.7   | 34.2   | 174    | 69.3   | 15.0   |
| Selenium                         | M     | mg/kg    | 1    | < 1.0  | 1.4    | 1.1    | 4.1    | 1.8    | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | 59.9   | 80.9   | 50.9   | 59.3   | 188    | 42.2   |
| Zinc                             | M     | mg/kg    | 5    | 58.6   | 55.8   | 73.5   | 91.5   | 56.6   | 40.6   |
| <b>Anions</b>                    |       |          |      |        |        |        |        |        |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | < 40   | < 40   | < 40   | < 40   | < 40   | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | 0.03   |
| <b>Inorganics</b>                |       |          |      |        |        |        |        |        |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | < 20   | < 20   | < 20   | < 20   | < 20   | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.06   | 0.05   | 0.06   | 0.06   | 0.05   | 0.05   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  |
| <b>Miscellaneous</b>             |       |          |      |        |        |        |        |        |        |
| pH                               | M     | pH units | 0.1  | 6.8    | 7.0    | 6.5    | 7.6    | 7.4    | 6.9    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.14   | 0.11   | 0.31   | 0.21   | 0.05   | 0.43   |
| <b>Phenols</b>                   |       |          |      |        |        |        |        |        |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6    | < 6    | < 6    | < 6    | < 6    | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |        |        |        |        |        |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.2    | < 0.1  | < 0.1  | < 0.1  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.1    | 0.1    |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.1    | < 0.1  | < 0.1  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4  | < 0.4  | < 0.4  | < 0.4  | < 0.4  | < 0.4  |
| <b>BTEX</b>                      |       |          |      |        |        |        |        |        |        |
| Benzene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |

# Results Summary

Report No.: 18-17643

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136673     | 136674     | 136675     | 136676     | 136677     | 136678     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP306      | TP306      | TP307      | TP307      | TP307      | TP308      |
| Sample Depth (m)   | 0.40       | 0.80       | 0.30       | 0.80       | 1.20       | 0.10       |
| Sampling Date      | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 |

| Determinand             | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>TPH CWG</b>          |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |

# Results Summary

Report No.: 18-17643

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136679     | 136680     | 136681     | 136682     | 136683     | 136684     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP308      | TP308      | TP309      | TP309      | TP309      | TP310      |
| Sample Depth (m)   | 0.30       | 0.70       | 0.25       | 0.50       | 0.65       | 0.20       |
| Sampling Date      | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 |

| Determinand                      | Codes | Units    | LOD  |        |        |        |        |        |        |
|----------------------------------|-------|----------|------|--------|--------|--------|--------|--------|--------|
| <b>Metals</b>                    |       |          |      |        |        |        |        |        |        |
| Arsenic                          | M     | mg/kg    | 1    | 95.8   | 68.0   | 23.1   | 65.6   | 20.9   | 15.6   |
| Barium                           | U     | mg/kg    | 10   | 48.9   | 65.2   | 56.4   | 83.1   | 17.6   | 46.7   |
| Beryllium                        | U     | mg/kg    | 1    | 1.4    | 1.8    | 1.4    | 5.1    | 1.2    | < 1.0  |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  | 0.5    | 1.0    | < 0.5  | < 0.5  |
| Chromium                         | M     | mg/kg    | 5    | 43.5   | 59.2   | 29.6   | 62.4   | 11.9   | 21.1   |
| Copper                           | M     | mg/kg    | 5    | 17.2   | 22.1   | 13.3   | 18.3   | < 5.0  | 10.0   |
| Lead                             | M     | mg/kg    | 5    | 23.5   | 26.2   | 27.1   | 22.2   | 6.3    | 24.2   |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 22.0   | 80.3   | 45.2   | 190    | 35.3   | 24.4   |
| Selenium                         | M     | mg/kg    | 1    | 1.9    | 2.0    | 1.2    | 1.6    | < 1.0  | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | 127    | 168    | 51.0   | 103    | 16.8   | 43.8   |
| Zinc                             | M     | mg/kg    | 5    | 58.6   | 71.0   | 80.7   | 143    | 27.6   | 60.5   |
| <b>Anions</b>                    |       |          |      |        |        |        |        |        |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | < 40   | < 40   | < 40   | < 40   | < 40   | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | < 0.02 | 0.02   | 0.11   | 0.06   | 0.03   | 0.03   |
| <b>Inorganics</b>                |       |          |      |        |        |        |        |        |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | < 20   | < 20   | 38     | < 20   | < 20   | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.05   | 0.06   | 0.11   | 0.07   | 0.03   | 0.07   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5  | < 0.5  | 1.6    | < 0.5  | < 0.5  | 0.6    |
| <b>Miscellaneous</b>             |       |          |      |        |        |        |        |        |        |
| pH                               | M     | pH units | 0.1  | 6.9    | 7.3    | 6.6    | 7.3    | 8.0    | 6.7    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.12   | 0.12   | 1.7    | 0.44   | 0.05   | 0.03   |
| <b>Phenols</b>                   |       |          |      |        |        |        |        |        |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6    | < 6    | < 6    | < 6    | < 6    | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |        |        |        |        |        |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | 0.3    | < 0.1  | < 0.1  | 0.3    | < 0.1  | < 0.1  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | 0.4    | < 0.4  | < 0.4  | 0.4    | < 0.4  | < 0.4  |
| <b>BTEX</b>                      |       |          |      |        |        |        |        |        |        |
| Benzene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |

# Results Summary

Report No.: 18-17643

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136679     | 136680     | 136681     | 136682     | 136683     | 136684     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP308      | TP308      | TP309      | TP309      | TP309      | TP310      |
| Sample Depth (m)   | 0.30       | 0.70       | 0.25       | 0.50       | 0.65       | 0.20       |
| Sampling Date      | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 |

| Determinand             | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>TPH CWG</b>          |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |

# Results Summary

Report No.: 18-17643

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136685     | 136686     | 136687     | 136688     | 136689     | 136690     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP310      | TP310      | TP311      | TP311      | TP311      | TP312      |
| Sample Depth (m)   | 0.50       | 1.50       | 0.20       | 0.40       | 0.80       | 0.20       |
| Sampling Date      | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 17/05/2018 |

| Determinand                      | Codes | Units    | LOD  |        |          |        |        |        |        |
|----------------------------------|-------|----------|------|--------|----------|--------|--------|--------|--------|
| <b>Metals</b>                    |       |          |      |        |          |        |        |        |        |
| Arsenic                          | M     | mg/kg    | 1    | 22.7   | ^ 4.7    | 15.3   | 22.7   | 27.4   | 5.0    |
| Barium                           | U     | mg/kg    | 10   | 73.8   | 17.9     | 51.7   | 60.6   | 61.9   | 120    |
| Beryllium                        | U     | mg/kg    | 1    | 1.3    | < 1.0    | 1.0    | 2.3    | 2.6    | < 1.0  |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5  | ^ 1.0    | < 0.5  | < 0.5  | 1.4    | 0.7    |
| Chromium                         | M     | mg/kg    | 5    | 44.2   | ^ 6.9    | 23.3   | 45.9   | 54.0   | 11.3   |
| Copper                           | M     | mg/kg    | 5    | 19.2   | ^ < 5.0  | 11.3   | 18.1   | 24.7   | 9.9    |
| Lead                             | M     | mg/kg    | 5    | 21.8   | ^ < 5.0  | 27.6   | 22.1   | 17.2   | 16.0   |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5  | ^ < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 32.0   | ^ 13.9   | 29.3   | 66.7   | 200    | 14.3   |
| Selenium                         | M     | mg/kg    | 1    | 1.0    | ^ < 1.0  | < 1.0  | 1.1    | 2.1    | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | 80.9   | ^ 9.8    | 46.8   | 75.9   | 66.1   | 16.3   |
| Zinc                             | M     | mg/kg    | 5    | 68.7   | ^ 21.5   | 64.1   | 104    | 97.9   | 45.8   |
| <b>Anions</b>                    |       |          |      |        |          |        |        |        |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | < 40   | ^ < 40   | < 40   | < 40   | < 40   | 103    |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.02   | ^ < 0.02 | 0.04   | 0.05   | 0.02   | 0.10   |
| <b>Inorganics</b>                |       |          |      |        |          |        |        |        |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | < 20   | ^ < 20   | < 20   | 22     | < 20   | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8  | < 0.8    | < 0.8  | < 0.8  | < 0.8  | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2    | < 2      | < 2    | < 2    | < 2    | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0  | ^ < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.08   | 0.09     | 0.08   | 0.07   | 0.07   | 0.07   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | 0.5    | < 0.5    | < 0.5  | < 0.5  | < 0.5  | 0.5    |
| <b>Miscellaneous</b>             |       |          |      |        |          |        |        |        |        |
| pH                               | M     | pH units | 0.1  | 6.7    | ^ 8.6    | 7.0    | 7.2    | 7.3    | 8.2    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.15   | 0.03     | 0.75   | 0.27   | 0.22   | 0.56   |
| <b>Phenols</b>                   |       |          |      |        |          |        |        |        |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6    | < 6      | < 6    | < 6    | < 6    | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |        |          |        |        |        |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.4    |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.2    |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 1.4    |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 1.4    |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 1.3    |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 1.3    |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 1.7    |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | 0.2    | < 0.1  | < 0.1  | 2.1    |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | 0.2    | < 0.1  | 1.8    |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 1.4    |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.3    |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  | 2.1    |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4  | ^ < 0.4  | < 0.4  | < 0.4  | < 0.4  | 15.5   |
| <b>BTEX</b>                      |       |          |      |        |          |        |        |        |        |
| Benzene                          | M     | ug/kg    | 10   | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |

# Results Summary

Report No.: 18-17643

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136685     | 136686     | 136687     | 136688     | 136689     | 136690     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP310      | TP310      | TP311      | TP311      | TP311      | TP312      |
| Sample Depth (m)   | 0.50       | 1.50       | 0.20       | 0.40       | 0.80       | 0.20       |
| Sampling Date      | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 15/05/2018 | 17/05/2018 |

| Determinand             | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>TPH CWG</b>          |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 3.1    |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 135    |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 9.3    |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 4.2    |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 136    |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 17.1   |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 304    |

# Results Summary

Report No.: 18-17643

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136691     | 136692     | 136693     | 136694     | 136695     | 136696     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP312      | TP312      | TP313      | TP313      | TP313      | TP314      |
| Sample Depth (m)   | 0.90       | 1.45       | 0.25       | 0.50       | 1.55       | 0.30       |
| Sampling Date      | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 |

| Determinand                      | Codes | Units    | LOD  |        |        |          |        |        |        |
|----------------------------------|-------|----------|------|--------|--------|----------|--------|--------|--------|
| <b>Metals</b>                    |       |          |      |        |        |          |        |        |        |
| Arsenic                          | M     | mg/kg    | 1    | 11.2   | 20.3   | ^ 5.1    | 17.1   | 34.2   | 11.5   |
| Barium                           | U     | mg/kg    | 10   | 66.4   | 54.9   | 28.0     | 19.2   | 38.9   | 40.8   |
| Beryllium                        | U     | mg/kg    | 1    | < 1.0  | 2.9    | < 1.0    | < 1.0  | 1.5    | < 1.0  |
| Cadmium                          | M     | mg/kg    | 0.5  | 0.6    | 0.7    | ^ 0.6    | < 0.5  | < 0.5  | < 0.5  |
| Chromium                         | M     | mg/kg    | 5    | 21.4   | 39.6   | ^ 10.2   | 14.5   | 20.4   | 34.0   |
| Copper                           | M     | mg/kg    | 5    | 18.5   | 23.8   | ^ 8.8    | 7.9    | 15.2   | 13.5   |
| Lead                             | M     | mg/kg    | 5    | 61.9   | 25.3   | ^ 12.3   | 14.1   | 20.5   | 17.3   |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  | ^ < 0.5  | < 0.5  | < 0.5  | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 29.3   | 93.1   | ^ 10.7   | 15.1   | 26.9   | 13.7   |
| Selenium                         | M     | mg/kg    | 1    | 1.1    | 1.8    | ^ < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | 39.2   | 64.6   | ^ 17.0   | 35.1   | 43.5   | 54.1   |
| Zinc                             | M     | mg/kg    | 5    | 129    | 136    | ^ 32.0   | 28.5   | 37.6   | 31.2   |
| <b>Anions</b>                    |       |          |      |        |        |          |        |        |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | 124    | 131    | ^ < 40   | < 40   | < 40   | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.05   | 0.04   | ^ < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| <b>Inorganics</b>                |       |          |      |        |        |          |        |        |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | < 20   | < 20   | ^ < 20   | < 20   | < 20   | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8  | < 0.8  | < 0.8    | < 0.8  | < 0.8  | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2    | < 2    | < 2      | < 2    | < 2    | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | 1.1    | < 1.0  | ^ 1.0    | < 1.0  | < 1.0  | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.09   | 0.09   | 0.06     | 0.03   | 0.06   | 0.06   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | 2.8    | 0.5    | < 0.5    | < 0.5  | < 0.5  | 0.8    |
| <b>Miscellaneous</b>             |       |          |      |        |        |          |        |        |        |
| pH                               | M     | pH units | 0.1  | 8.3    | 7.8    | ^ 8.3    | 8.1    | 8.1    | 7.7    |
| Total Organic Carbon             | N     | %        | 0.01 | 2.6    | 0.42   | 0.28     | 0.12   | 0.08   | 0.24   |
| <b>Phenols</b>                   |       |          |      |        |        |          |        |        |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6    | < 6    | < 6      | < 6    | < 6    | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |        |        |          |        |        |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ 0.2    | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ < 0.1  | 0.2    | < 0.1  | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ < 0.1  | 0.2    | < 0.1  | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ < 0.1  | 1.8    | < 0.1  | < 0.1  |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ 0.1    | 0.6    | < 0.1  | < 0.1  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | 0.1    | < 0.1  | ^ 0.6    | 1.8    | < 0.1  | < 0.1  |
| Pyrene                           | M     | mg/kg    | 0.1  | 0.1    | < 0.1  | ^ 0.6    | 1.5    | < 0.1  | < 0.1  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ 0.9    | 0.8    | < 0.1  | < 0.1  |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ 0.8    | 0.8    | < 0.1  | < 0.1  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | 0.2    | < 0.1  | ^ 1.1    | 0.5    | < 0.1  | < 0.1  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | 0.3    | 0.3    | ^ 1.5    | 0.8    | < 0.1  | < 0.1  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | 0.1    | < 0.1  | ^ 1.2    | 0.7    | < 0.1  | 0.2    |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ 1.2    | 0.4    | < 0.1  | < 0.1  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | ^ 0.3    | 0.1    | < 0.1  | < 0.1  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1  | 0.1    | ^ 1.3    | 0.3    | < 0.1  | < 0.1  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | 0.9    | 0.4    | ^ 9.9    | 10.5   | < 0.4  | < 0.4  |
| <b>BTEX</b>                      |       |          |      |        |        |          |        |        |        |
| Benzene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | ^ < 10.0 | < 10.0 | < 10.0 | < 10.0 |

# Results Summary

Report No.: 18-17643

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136691     | 136692     | 136693     | 136694     | 136695     | 136696     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP312      | TP312      | TP313      | TP313      | TP313      | TP314      |
| Sample Depth (m)   | 0.90       | 1.45       | 0.25       | 0.50       | 1.55       | 0.30       |
| Sampling Date      | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 |

| Determinand             | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>TPH CWG</b>          |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | 1.7    | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | 7.1    | < 1.0  | < 1.0  | < 1.0  |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | 1.6    | < 1.0  | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | < 1.0  | < 1.0  | 10.3   | < 1.0  | < 1.0  | < 1.0  |

# Results Summary

Report No.: 18-17643

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136697     | 136698     | 136699     | 136700     | 136701     | 136702     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP314      | TP314      | TP315      | TP315      | TP315      | TP316      |
| Sample Depth (m)   | 0.70       | 1.60       | 0.20       | 0.60       | 2.30       | 0.20       |
| Sampling Date      | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 |

| Determinand                      | Codes | Units    | LOD  |        |        |        |        |        |        |
|----------------------------------|-------|----------|------|--------|--------|--------|--------|--------|--------|
| <b>Metals</b>                    |       |          |      |        |        |        |        |        |        |
| Arsenic                          | M     | mg/kg    | 1    | 10.6   | 243    | 15.5   | 11.0   | 8.7    | 11.1   |
| Barium                           | U     | mg/kg    | 10   | 38.3   | 90.8   | 359    | 85.8   | 305    | 257    |
| Beryllium                        | U     | mg/kg    | 1    | < 1.0  | 3.7    | < 1.0  | < 1.0  | 2.1    | < 1.0  |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5  | 3.5    | 0.7    | < 0.5  | < 0.5  | < 0.5  |
| Chromium                         | M     | mg/kg    | 5    | 19.3   | 37.4   | 15.5   | 30.8   | 59.1   | 23.7   |
| Copper                           | M     | mg/kg    | 5    | 7.8    | 24.4   | 30.2   | 13.3   | 25.7   | 23.2   |
| Lead                             | M     | mg/kg    | 5    | 14.8   | 28.5   | 220    | 64.6   | 27.2   | 146    |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 11.9   | 271    | 16.1   | 15.0   | 25.3   | 15.5   |
| Selenium                         | M     | mg/kg    | 1    | < 1.0  | 1.1    | < 1.0  | < 1.0  | 1.1    | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | 35.8   | 69.2   | 23.7   | 52.0   | 101    | 38.4   |
| Zinc                             | M     | mg/kg    | 5    | 36.9   | 139    | 91.1   | 58.2   | 62.5   | 107    |
| <b>Anions</b>                    |       |          |      |        |        |        |        |        |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | < 40   | < 40   | < 40   | < 40   | < 40   | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | < 0.02 | 0.05   | 0.03   | 0.06   | < 0.02 | 0.05   |
| <b>Inorganics</b>                |       |          |      |        |        |        |        |        |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | < 20   | < 20   | < 20   | 188    | < 20   | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.05   | 0.07   | 0.08   | 0.09   | 0.07   | 0.11   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5  | < 0.5  | < 0.5  | 1.1    | 0.6    | 0.7    |
| <b>Miscellaneous</b>             |       |          |      |        |        |        |        |        |        |
| pH                               | M     | pH units | 0.1  | 7.4    | 7.5    | 9.1    | 7.9    | 6.2    | 9.3    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.21   | 0.11   | 0.88   | 1.1    | 0.35   | 0.70   |
| <b>Phenols</b>                   |       |          |      |        |        |        |        |        |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6    | < 6    | < 6    | < 6    | < 6    | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |        |        |        |        |        |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.2    | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.3    | < 0.1  | < 0.1  | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.2    | < 0.1  | < 0.1  | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 1.9    | < 0.1  | < 0.1  | 0.1    |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.7    | < 0.1  | < 0.1  | 0.3    |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 3.6    | < 0.1  | < 0.1  | 0.7    |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 3.3    | < 0.1  | < 0.1  | 0.6    |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 2.1    | < 0.1  | < 0.1  | 0.4    |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 2.3    | < 0.1  | 0.1    | 0.4    |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 3.1    | 0.3    | 0.1    | 0.6    |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 2.5    | < 0.1  | < 0.1  | 0.4    |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | 0.1    | 0.1    | 2.7    | < 0.1  | 0.3    | 0.3    |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 2.3    | < 0.1  | < 0.1  | 0.3    |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.5    | < 0.1  | < 0.1  | 0.1    |
| Benzo(g,h,i)perylene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 3.0    | 0.1    | < 0.1  | 0.4    |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4  | < 0.4  | 28.7   | 0.6    | 0.6    | 4.7    |
| <b>BTEX</b>                      |       |          |      |        |        |        |        |        |        |
| Benzene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |

# Results Summary

Report No.: 18-17643

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136697     | 136698     | 136699     | 136700     | 136701     | 136702     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP314      | TP314      | TP315      | TP315      | TP315      | TP316      |
| Sample Depth (m)   | 0.70       | 1.60       | 0.20       | 0.60       | 2.30       | 0.20       |
| Sampling Date      | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 |

| Determinand             | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>TPH CWG</b>          |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | 2.7    | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | 39.7   | < 1.0  | < 1.0  | 8.1    |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | 9.3    | < 1.0  | < 1.0  | 1.4    |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | 2.3    | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | 14.8   | < 1.0  | < 1.0  | 1.3    |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | 131    | < 1.0  | < 1.0  | 15.1   |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | 41.1   | < 1.0  | < 1.0  | 6.5    |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | < 1.0  | < 1.0  | 241    | < 1.0  | < 1.0  | 32.4   |

# Results Summary

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|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136703     | 136704     | 136705     | 136706     | 136707     | 136708     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP316      | TP316      | TP317      | TP317      | TP317      | TP318      |
| Sample Depth (m)   | 0.90       | 1.90       | 0.15       | 0.65       | 1.40       | 0.15       |
| Sampling Date      | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 |

| Determinand                      | Codes | Units    | LOD  |        |        |        |        |        |        |
|----------------------------------|-------|----------|------|--------|--------|--------|--------|--------|--------|
| <b>Metals</b>                    |       |          |      |        |        |        |        |        |        |
| Arsenic                          | M     | mg/kg    | 1    | 10.1   | 4.8    | 16.3   | 11.4   | 5.7    | 9.7    |
| Barium                           | U     | mg/kg    | 10   | 75.6   | 76.8   | 180    | 36.7   | 28.2   | 169    |
| Beryllium                        | U     | mg/kg    | 1    | < 1.0  | 1.7    | 1.4    | 6.9    | 1.4    | < 1.0  |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  | 0.6    | 5.2    | < 0.5  | 0.7    |
| Chromium                         | M     | mg/kg    | 5    | 35.8   | 28.4   | 28.9   | 35.0   | 24.1   | 20.3   |
| Copper                           | M     | mg/kg    | 5    | 14.8   | 11.3   | 60.8   | 21.3   | 17.7   | 30.0   |
| Lead                             | M     | mg/kg    | 5    | 36.7   | 13.4   | 165    | 22.3   | 15.7   | 104    |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 12.8   | 20.2   | 27.2   | 33.1   | 26.1   | 15.5   |
| Selenium                         | M     | mg/kg    | 1    | < 1.0  | < 1.0  | 1.4    | 1.1    | < 1.0  | < 1.0  |
| Vanadium                         | M     | mg/kg    | 5    | 64.1   | 47.5   | 49.0   | 49.9   | 39.1   | 34.5   |
| Zinc                             | M     | mg/kg    | 5    | 47.4   | 27.1   | 235    | 59.5   | 48.0   | 159    |
| <b>Anions</b>                    |       |          |      |        |        |        |        |        |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | < 40   | < 40   | < 40   | < 40   | < 40   | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.05   | 0.08   | < 0.02 | < 0.02 | < 0.02 | 0.03   |
| <b>Inorganics</b>                |       |          |      |        |        |        |        |        |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | < 20   | < 20   | < 20   | < 20   | < 20   | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0  | < 1.0  | 1.2    | < 1.0  | < 1.0  | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.08   | 0.07   | 0.08   | 0.05   | 0.06   | 0.07   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | 0.8    | 0.7    | 1.3    | 0.7    | < 0.5  | 0.7    |
| <b>Miscellaneous</b>             |       |          |      |        |        |        |        |        |        |
| pH                               | M     | pH units | 0.1  | 8.1    | 5.5    | 7.6    | 7.9    | 7.4    | 8.5    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.60   | 0.06   | 2.9    | 0.32   | 0.08   | 1.9    |
| <b>Phenols</b>                   |       |          |      |        |        |        |        |        |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6    | < 6    | < 6    | < 6    | < 6    | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |        |        |        |        |        |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.2    |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.2    |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.1    |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.2    | < 0.1  | < 0.1  | 0.2    |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | 0.1    | 0.1    | 0.1    | < 0.1  | < 0.1  | 0.4    |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | 0.1    | < 0.1  | < 0.1  | 0.3    |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.2    |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.2    |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  | < 0.1  |
| Benzo(g,h,i)perylene             | M     | mg/kg    | 0.1  | 0.1    | < 0.1  | < 0.1  | < 0.1  | < 0.1  | 0.2    |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4  | < 0.4  | 0.7    | < 0.4  | < 0.4  | 2.1    |
| <b>BTEX</b>                      |       |          |      |        |        |        |        |        |        |
| Benzene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 | < 10.0 |

# Results Summary

Report No.: 18-17643

|                    |            |            |            |            |            |            |
|--------------------|------------|------------|------------|------------|------------|------------|
| ELAB Reference     | 136703     | 136704     | 136705     | 136706     | 136707     | 136708     |
| Customer Reference |            |            |            |            |            |            |
| Sample ID          |            |            |            |            |            |            |
| Sample Type        | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       | SOIL       |
| Sample Location    | TP316      | TP316      | TP317      | TP317      | TP317      | TP318      |
| Sample Depth (m)   | 0.90       | 1.90       | 0.15       | 0.65       | 1.40       | 0.15       |
| Sampling Date      | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 | 17/05/2018 |

| Determinand             | Codes | Units | LOD  |        |        |        |        |        |        |
|-------------------------|-------|-------|------|--------|--------|--------|--------|--------|--------|
| <b>TPH CWG</b>          |       |       |      |        |        |        |        |        |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 1.7    |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 3.7    |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 1.6    |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | < 1.0  | < 1.0  | < 1.0  | < 1.0  | < 1.0  | 7.0    |

# Results Summary

Report No.: 18-17643

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|                    |            |            |
|--------------------|------------|------------|
| ELAB Reference     | 136709     | 136710     |
| Customer Reference |            |            |
| Sample ID          |            |            |
| Sample Type        | SOIL       | SOIL       |
| Sample Location    | TP318      | TP319      |
| Sample Depth (m)   | 0.70       | 1.80       |
| Sampling Date      | 17/05/2018 | 17/05/2018 |

| Determinand                      | Codes | Units    | LOD  |        |        |
|----------------------------------|-------|----------|------|--------|--------|
| <b>Metals</b>                    |       |          |      |        |        |
| Arsenic                          | M     | mg/kg    | 1    | 10.5   | 17.2   |
| Barium                           | U     | mg/kg    | 10   | 35.0   | 49.9   |
| Beryllium                        | U     | mg/kg    | 1    | < 1.0  | 1.5    |
| Cadmium                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  |
| Chromium                         | M     | mg/kg    | 5    | 34.6   | 58.1   |
| Copper                           | M     | mg/kg    | 5    | 16.1   | 32.6   |
| Lead                             | M     | mg/kg    | 5    | 15.1   | 27.9   |
| Mercury                          | M     | mg/kg    | 0.5  | < 0.5  | < 0.5  |
| Nickel                           | M     | mg/kg    | 5    | 11.9   | 15.9   |
| Selenium                         | M     | mg/kg    | 1    | < 1.0  | 1.2    |
| Vanadium                         | M     | mg/kg    | 5    | 55.4   | 106    |
| Zinc                             | M     | mg/kg    | 5    | 37.5   | 37.5   |
| <b>Anions</b>                    |       |          |      |        |        |
| Water Soluble Chloride           | M     | mg/kg    | 40   | < 40   | < 40   |
| Water Soluble Sulphate           | M     | g/l      | 0.02 | 0.02   | 0.07   |
| <b>Inorganics</b>                |       |          |      |        |        |
| Elemental Sulphur                | M     | mg/kg    | 20   | < 20   | < 20   |
| Hexavalent Chromium              | N     | mg/kg    | 0.8  | < 0.8  | < 0.8  |
| Total Sulphide                   | N     | mg/kg    | 2    | < 2    | < 2    |
| Total Cyanide                    | M     | mg/kg    | 1    | < 1.0  | < 1.0  |
| Acid Soluble Sulphate (SO4)      | U     | %        | 0.02 | 0.05   | 0.07   |
| Water Soluble Boron              | N     | mg/kg    | 0.5  | < 0.5  | 0.8    |
| <b>Miscellaneous</b>             |       |          |      |        |        |
| pH                               | M     | pH units | 0.1  | 8.1    | 7.3    |
| Total Organic Carbon             | N     | %        | 0.01 | 0.13   | 0.22   |
| <b>Phenols</b>                   |       |          |      |        |        |
| Total Phenols                    | N     | mg/kg    | 6    | < 6    | < 6    |
| <b>Polyaromatic hydrocarbons</b> |       |          |      |        |        |
| Naphthalene                      | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Acenaphthylene                   | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Acenaphthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Fluorene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Phenanthrene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Anthracene                       | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Fluoranthene                     | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Pyrene                           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Benzo(a)anthracene               | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Chrysene                         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Benzo (b) fluoranthene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Benzo(k)fluoranthene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Benzo (a) pyrene                 | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Indeno (1,2,3-cd) pyrene         | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Dibenzo(a,h)anthracene           | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Benzo[g,h,i]perylene             | M     | mg/kg    | 0.1  | < 0.1  | < 0.1  |
| Total PAH(16)                    | M     | mg/kg    | 0.4  | < 0.4  | < 0.4  |
| <b>BTEX</b>                      |       |          |      |        |        |
| Benzene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 |
| Toluene                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 |
| Ethylbenzene                     | M     | ug/kg    | 10   | < 10.0 | < 10.0 |
| Xylenes                          | M     | ug/kg    | 10   | < 10.0 | < 10.0 |

# Results Summary

Report No.: 18-17643

|                    |            |            |
|--------------------|------------|------------|
| ELAB Reference     | 136709     | 136710     |
| Customer Reference |            |            |
| Sample ID          |            |            |
| Sample Type        | SOIL       | SOIL       |
| Sample Location    | TP318      | TP319      |
| Sample Depth (m)   | 0.70       | 1.80       |
| Sampling Date      | 17/05/2018 | 17/05/2018 |

| Determinand             | Codes | Units | LOD  |        |        |
|-------------------------|-------|-------|------|--------|--------|
| <b>TPH CWG</b>          |       |       |      |        |        |
| >C5-C6 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 |
| >C6-C8 Aliphatic        | N     | mg/kg | 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aliphatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C10-C12 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C12-C16 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C16-C21 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C21-C35 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C35-C40 Aliphatic      | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C5-C7 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 |
| >C7-C8 Aromatic         | N     | mg/kg | 0.01 | < 0.01 | < 0.01 |
| >C8-C10 Aromatic        | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C10-C12 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C12-C16 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C16-C21 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C21-C35 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| >C35-C40 Aromatic       | N     | mg/kg | 1    | < 1.0  | < 1.0  |
| Total (>C5-C40) Ali/Aro | N     | mg/kg | 1    | < 1.0  | < 1.0  |

## Results Summary

Report No.: 18-17643

### Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked R) in this report are solely ELAB's responsibility (Accreditation No.2083). They are subjective comments only which must be verified by the client.

| Elab No. | Depth (m)   | Client's Reference | Description of Sample Matrix #                                      | Asbestos Identification      | Gravimetric | Gravimetric Analysis by ACM Type | Free Fibre | Total   |
|----------|-------------|--------------------|---------------------------------------------------------------------|------------------------------|-------------|----------------------------------|------------|---------|
| 136637   | 0.90 - 0.80 | WS401              | Brown clay, stones, clinker                                         | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136640   | 0.50        | WS402              | Brown clay, stones                                                  | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136645   | 1.50 - 1.60 | WS403              | Brown sandy soil, stones, concrete, brick, clinker, organics        | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136650   | 0.40 - 0.60 | WS405              | Brown sandy soil, stones                                            | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136651   | 1.20        | WS405              | Brown sandy soil, stones, concrete, brick, wood                     | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136653   | 1.60 - 1.90 | WS406              | Brown sandy soil, stones, concrete, brick, clinker, glass           | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136655   | 0.30 - 0.50 | WS407              | Brown sandy soil, stones, clinker                                   | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136657   | 3.00 - 4.00 | WS407              | Brown sandy soil, stones, concrete, brick, clinker, chalk, organics | Chrysotile (asbestos cement) | 0.729       | Asbestos cement (0.729%)         | < 0.001    | 0.729   |
| 136658   | 0.25        | TP301              | Brown sandy soil, stones, concrete, brick, clinker, organics        | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136659   | 0.40        | TP301              | Brown sandy soil, stones, clinker, wood                             | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136660   | 1.40        | TP301              | Brown sandy soil, stones, brick, clinker, organics                  | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136661   | 0.20        | TP302              | Brown sandy soil, stones, chalk, clinker, organics                  | Chrysotile (asbestos cement) | 0.147       | Asbestos cement (0.147%)         | < 0.001    | 0.147   |
| 136662   | 0.50        | TP302              | Brown sandy soil, stones, clinker, organics                         | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136664   | 2.70        | TP302              | Brown sandy soil, stones, concrete, clinker                         | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136665   | 0.70        | TP303              | Brown sandy soil, stones, concrete, clinker                         | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136669   | 1.20        | TP304              | Brown sandy clay, stones, clinker                                   | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136670   | 0.80        | TP305              | Brown sandy clay, stones, clinker                                   | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136672   | 0.20        | TP306              | Brown sandy soil, stones, organics                                  | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136673   | 0.40        | TP306              | Brown sandy soil, stones                                            | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136674   | 0.60        | TP306              | Brown sandy soil, stones                                            | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136675   | 0.30        | TP307              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136676   | 0.60        | TP307              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136677   | 1.20        | TP307              | Brown sandy soil with stones                                        | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136678   | 0.10        | TP308              | Brown sandy soil with stones                                        | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136679   | 0.30        | TP308              | Brown sandy soil with stones                                        | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136680   | 0.70        | TP308              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136681   | 0.25        | TP309              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136682   | 0.50        | TP309              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136683   | 0.65        | TP309              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136684   | 0.20        | TP310              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136685   | 0.50        | TP310              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136686   | 1.50        | TP310              | Chalk                                                               | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136687   | 0.20        | TP311              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136688   | 0.40        | TP311              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136689   | 0.80        | TP311              | Brown soil                                                          | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136690   | 0.20        | TP312              | Brown chalky soil with stones and brick                             | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136691   | 0.00        | TP312              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136692   | 1.45        | TP312              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136693   | 0.25        | TP313              | Brown chalky soil with stones and clinker                           | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136694   | 0.50        | TP313              | Brown soil with stones                                              | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136695   | 1.55        | TP313              | Sand                                                                | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136696   | 0.30        | TP314              | Brown soil                                                          | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136697   | 0.70        | TP314              | Brown soil, Stones                                                  | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136698   | 1.60        | TP314              | Brown soil                                                          | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136699   | 0.20        | TP315              | Brown sandy soil, Stones, concrete, brick                           | Chrysotile (fibre bundle)    | < 0.001     | Fibre bundle (<0.001)            | < 0.001    | < 0.001 |
| 136700   | 0.50        | TP315              | Brown sandy soil                                                    | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136701   | 2.30        | TP315              | Brown soil, Stones                                                  | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136702   | 0.20        | TP316              | Brown sandy soil, Stones, brick, clinker                            | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136703   | 0.90        | TP316              | Brown soil                                                          | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136704   | 1.90        | TP316              | Brown soil                                                          | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136705   | 0.15        | TP317              | Brown sandy soil, Stones, glass, clinker                            | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136706   | 0.65        | TP317              | Brown soil                                                          | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136707   | 1.40        | TP317              | Brown sandy soil, stones                                            | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136708   | 0.15        | TP318              | Brown sandy soil, Stones, brick                                     | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136709   | 0.70        | TP318              | Brown soil, Stones                                                  | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |
| 136710   | 1.60        | TP319              | Brown soil                                                          | No asbestos detected         | n/t         | n/t                              | n/t        | n/t     |

## Method Summary

Report No.: 18-17643

| Parameter                               | Codes | Analysis Undertaken On | Date Tested | Method Number | Technique          |
|-----------------------------------------|-------|------------------------|-------------|---------------|--------------------|
| <b>Soil</b>                             |       |                        |             |               |                    |
| Sulphide                                | N     | As submitted sample    | 23/05/2018  | 109           | Colorimetry        |
| Hexavalent chromium                     | N     | As submitted sample    | 23/05/2018  | 110           | Colorimetry        |
| pH                                      | M     | Air dried sample       | 24/05/2018  | 113           | Electromeric       |
| Acid Soluble Sulphate                   | U     | Air dried sample       | 24/05/2018  | 115           | Ion Chromatography |
| Aqua regia extractable metals           | M     | Air dried sample       | 23/05/2018  | 118           | ICPMS              |
| Phenols in solids                       | N     | As submitted sample    | 23/05/2018  | 121           | HPLC               |
| Elemental Sulphur                       | M     | Air dried sample       | 23/05/2018  | 122           | HPLC               |
| PAH (GC-FID)                            | M     | As submitted sample    | 23/05/2018  | 133           | GC-FID             |
| Water soluble anions                    | M     | Air dried sample       | 23/05/2018  | 172           | Ion Chromatography |
| Low range Aliphatic hydrocarbons soil   | N     | As submitted sample    | 24/05/2018  | 181           | GC-MS              |
| Low range Aromatic hydrocarbons soil    | N     | As submitted sample    | 24/05/2018  | 181           | GC-MS              |
| BTEX in solids                          | M     | As submitted sample    | 24/05/2018  | 181A          | GC-MS              |
| Water soluble boron                     | N     | Air dried sample       | 23/05/2018  | 202           | Colorimetry        |
| Total cyanide                           | M     | As submitted sample    | 23/05/2018  | 204           | Colorimetry        |
| Total organic carbon/Total sulphur      | N     | Air dried sample       | 24/05/2018  | 210           | IR                 |
| Aliphatic hydrocarbons in soil          | N     | As submitted sample    | 23/05/2018  | 214           | GC-FID             |
| Aliphatic/Aromatic hydrocarbons in soil | N     | As submitted sample    | 25/05/2018  | 214           | GC-FID             |
| Aromatic hydrocarbons in soil           | N     | As submitted sample    | 23/05/2018  | 214           | GC-FID             |
| Asbestos identification                 | U     | Air dried sample       | 23/05/2018  | 260           | Microscopy         |

Tests marked N are not UKAS accredited

## Report Information

Report No.: 18-17643

### Key

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|     |                                                                             |
|-----|-----------------------------------------------------------------------------|
| U   | hold UKAS accreditation                                                     |
| M   | hold MCERTS and UKAS accreditation                                          |
| N   | do not currently hold UKAS accreditation                                    |
| ^   | MCERTS accreditation not applicable for sample matrix                       |
| *   | UKAS accreditation not applicable for sample matrix                         |
| S   | Subcontracted to approved laboratory UKAS Accredited for the test           |
| SM  | Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test    |
| NS  | Subcontracted to approved laboratory. UKAS accreditation is not applicable. |
| I/S | Insufficient Sample                                                         |
| U/S | Unsuitable sample                                                           |
| n/t | Not tested                                                                  |
| <   | means "less than"                                                           |
| >   | means "greater than"                                                        |

Soil sample results are expressed on an air dried basis (dried at < 30°C)

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

### Deviation Codes

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|   |                                                          |
|---|----------------------------------------------------------|
| a | No date of sampling supplied                             |
| b | No time of sampling supplied (Waters Only)               |
| c | Sample not received in appropriate containers            |
| d | Sample not received in cooled condition                  |
| e | The container has been incorrectly filled                |
| f | Sample age exceeds stability time (sampling to receipt)  |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

### Sample Retention and Disposal

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All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

## CLEA Software Version 1.071

Page 1 of 5

Report generated 21/06/2018

Report title Woodcroft Farm, Lovedean



Created by FG at GESL

## BASIC SETTINGS

Land Use Residential with produce (C4SL)

Building Small terraced house

Receptor Female (res C4SL)

Start age class 1

End age class 6

Exposure Duration 6 years

Soil Sandy loam

## Exposure Pathways

Direct soil and dust ingestion ☒

Consumption of homegrown produce ☒

Soil attached to homegrown produce ☒

Dermal contact with indoor dust ☒

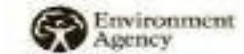
Dermal contact with soil ☒

Inhalation of indoor dust ☒

Inhalation of soil dust ☒

Inhalation of indoor vapour ☒

Inhalation of outdoor vapour ☒



Land Use Residential with produce (C4SL)

Receptor Female (res C4SL)

| Age Class | Exposure Frequencies (days yr <sup>-1</sup> ) |                                  |                                 |                          |                                       |                                        | Occupation Periods (hr day <sup>-1</sup> ) |          | Soil to skin adherence factors (mg cm <sup>2</sup> ) |         | Direct soil ingestion rate (g day <sup>-1</sup> ) | Max exposed skin factor |                 |                                                     |                                          |                                           |                                   |
|-----------|-----------------------------------------------|----------------------------------|---------------------------------|--------------------------|---------------------------------------|----------------------------------------|--------------------------------------------|----------|------------------------------------------------------|---------|---------------------------------------------------|-------------------------|-----------------|-----------------------------------------------------|------------------------------------------|-------------------------------------------|-----------------------------------|
|           | Direct soil ingestion                         | Consumption of homegrown produce | Dermal contact with indoor dust | Dermal contact with soil | Inhalation of dust and vapour, indoor | Inhalation of dust and vapour, outdoor | Indoors                                    | Outdoors | Indoor                                               | Outdoor |                                                   | Body weight (kg)        | Body height (m) | Inhalation rate (m <sup>3</sup> day <sup>-1</sup> ) | Indoor (m <sup>2</sup> m <sup>-2</sup> ) | Outdoor (m <sup>2</sup> m <sup>-2</sup> ) | Total skin area (m <sup>2</sup> ) |
| 1         | 180                                           | 180                              | 180                             | 170                      | 365                                   | 365                                    | 23.0                                       | 1.0      | 0.06                                                 | 0.10    | 0.10                                              | 5.60                    | 0.7             | 5.4                                                 | 0.32                                     | 0.26                                      | 3.43E-01                          |
| 2         | 365                                           | 365                              | 365                             | 170                      | 365                                   | 365                                    | 23.0                                       | 1.0      | 0.06                                                 | 0.10    | 0.10                                              | 9.80                    | 0.8             | 8.0                                                 | 0.33                                     | 0.26                                      | 4.84E-01                          |
| 3         | 365                                           | 365                              | 365                             | 170                      | 365                                   | 365                                    | 23.0                                       | 1.0      | 0.06                                                 | 0.10    | 0.10                                              | 12.70                   | 0.9             | 8.9                                                 | 0.32                                     | 0.25                                      | 5.82E-01                          |
| 4         | 365                                           | 365                              | 365                             | 170                      | 365                                   | 365                                    | 23.0                                       | 1.0      | 0.06                                                 | 0.10    | 0.10                                              | 15.10                   | 0.9             | 10.1                                                | 0.35                                     | 0.28                                      | 6.36E-01                          |
| 5         | 365                                           | 365                              | 365                             | 170                      | 365                                   | 365                                    | 19.0                                       | 1.0      | 0.06                                                 | 0.10    | 0.10                                              | 16.90                   | 1.0             | 10.1                                                | 0.35                                     | 0.28                                      | 7.04E-01                          |
| 6         | 365                                           | 365                              | 365                             | 170                      | 365                                   | 365                                    | 19.0                                       | 1.0      | 0.06                                                 | 0.10    | 0.10                                              | 19.70                   | 1.1             | 10.1                                                | 0.33                                     | 0.26                                      | 7.94E-01                          |
| 7         | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 22.10                   | 1.2             | 12.0                                                | 0.22                                     | 0.15                                      | 8.73E-01                          |
| 8         | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 25.30                   | 1.2             | 12.0                                                | 0.22                                     | 0.15                                      | 9.36E-01                          |
| 9         | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 27.50                   | 1.3             | 12.0                                                | 0.22                                     | 0.15                                      | 1.01E+00                          |
| 10        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 31.40                   | 1.3             | 12.0                                                | 0.22                                     | 0.15                                      | 1.08E+00                          |
| 11        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 35.70                   | 1.4             | 12.0                                                | 0.22                                     | 0.14                                      | 1.19E+00                          |
| 12        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 41.30                   | 1.4             | 15.2                                                | 0.22                                     | 0.14                                      | 1.29E+00                          |
| 13        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 47.20                   | 1.5             | 15.2                                                | 0.22                                     | 0.14                                      | 1.42E+00                          |
| 14        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 51.20                   | 1.6             | 15.2                                                | 0.22                                     | 0.14                                      | 1.52E+00                          |
| 15        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 56.70                   | 1.6             | 15.2                                                | 0.21                                     | 0.14                                      | 1.60E+00                          |
| 16        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 59.00                   | 1.6             | 15.2                                                | 0.21                                     | 0.14                                      | 1.63E+00                          |
| 17        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 70.00                   | 1.6             | 15.7                                                | 0.33                                     | 0.27                                      | 1.78E+00                          |
| 18        | 0                                             | 0                                | 0                               | 0                        | 0                                     | 0                                      | 0.0                                        | 0.0      | 0.00                                                 | 0.00    | 0.00                                              | 70.90                   | 1.6             | 13.6                                                | 0.33                                     | 0.27                                      | 1.80E+00                          |

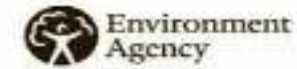
## Consumption Rates



| Age Class | Consumption rates (g FW kg <sup>-1</sup> bodyweight day <sup>-1</sup> ) by Produce Group |          |           |             |             |            |                       |          |           |             |             |            |
|-----------|------------------------------------------------------------------------------------------|----------|-----------|-------------|-------------|------------|-----------------------|----------|-----------|-------------|-------------|------------|
|           | MEAN RATES                                                                               |          |           |             |             |            | 90TH PERCENTILE RATES |          |           |             |             |            |
|           | Green veg                                                                                | Root veg | Tuber veg | Herb. Fruit | Shrub fruit | Tree fruit | Green veg             | Root veg | Tuber veg | Herb. Fruit | Shrub fruit | Tree fruit |
| 1         | 3.47E+00                                                                                 | 5.22E+00 | 9.22E+00  | 8.90E-01    | 1.07E+00    | 1.87E+00   | 7.12E+00              | 1.07E+01 | 1.60E+01  | 1.83E+00    | 2.23E+00    | 3.82E+00   |
| 2         | 3.34E+00                                                                                 | 1.61E+00 | 3.14E+00  | 1.93E+00    | 2.60E-01    | 5.84E+00   | 5.87E+00              | 2.83E+00 | 6.60E+00  | 3.39E+00    | 4.60E-01    | 1.03E+01   |
| 3         | 3.34E+00                                                                                 | 1.61E+00 | 3.14E+00  | 1.93E+00    | 2.60E-01    | 5.84E+00   | 5.87E+00              | 2.83E+00 | 6.60E+00  | 3.39E+00    | 4.60E-01    | 1.03E+01   |
| 4         | 3.34E+00                                                                                 | 1.61E+00 | 3.14E+00  | 1.93E+00    | 2.60E-01    | 5.84E+00   | 5.87E+00              | 2.83E+00 | 6.60E+00  | 3.39E+00    | 4.60E-01    | 1.03E+01   |
| 5         | 2.54E+00                                                                                 | 1.20E+00 | 2.65E+00  | 1.25E+00    | 1.10E-01    | 2.89E+00   | 4.53E+00              | 2.14E+00 | 4.95E+00  | 2.24E+00    | 1.90E-01    | 5.16E+00   |
| 6         | 2.54E+00                                                                                 | 1.20E+00 | 2.65E+00  | 1.25E+00    | 1.10E-01    | 2.89E+00   | 4.53E+00              | 2.14E+00 | 4.95E+00  | 2.24E+00    | 1.90E-01    | 5.16E+00   |
| 7         | 2.54E+00                                                                                 | 1.20E+00 | 2.65E+00  | 1.25E+00    | 1.10E-01    | 2.89E+00   | 4.53E+00              | 2.14E+00 | 4.95E+00  | 2.24E+00    | 1.90E-01    | 5.16E+00   |
| 8         | 2.54E+00                                                                                 | 1.20E+00 | 2.65E+00  | 1.25E+00    | 1.10E-01    | 2.89E+00   | 4.53E+00              | 2.14E+00 | 4.95E+00  | 2.24E+00    | 1.90E-01    | 5.16E+00   |
| 9         | 2.54E+00                                                                                 | 1.20E+00 | 2.65E+00  | 1.25E+00    | 1.10E-01    | 2.89E+00   | 4.53E+00              | 2.14E+00 | 4.95E+00  | 2.24E+00    | 1.90E-01    | 5.16E+00   |
| 10        | 2.54E+00                                                                                 | 1.20E+00 | 2.65E+00  | 1.25E+00    | 1.10E-01    | 2.89E+00   | 4.53E+00              | 2.14E+00 | 4.95E+00  | 2.24E+00    | 1.90E-01    | 5.16E+00   |
| 11        | 2.54E+00                                                                                 | 1.20E+00 | 2.65E+00  | 1.25E+00    | 1.10E-01    | 2.89E+00   | 4.53E+00              | 2.14E+00 | 4.95E+00  | 2.24E+00    | 1.90E-01    | 5.16E+00   |
| 12        | 1.03E+00                                                                                 | 4.90E-01 | 1.60E+00  | 5.10E-01    | 4.00E-02    | 1.18E+00   | 1.87E+00              | 8.90E-01 | 3.05E+00  | 9.30E-01    | 8.00E-02    | 2.13E+00   |
| 13        | 1.03E+00                                                                                 | 4.90E-01 | 1.60E+00  | 5.10E-01    | 4.00E-02    | 1.18E+00   | 1.87E+00              | 8.90E-01 | 3.05E+00  | 9.30E-01    | 8.00E-02    | 2.13E+00   |
| 14        | 1.03E+00                                                                                 | 4.90E-01 | 1.60E+00  | 5.10E-01    | 4.00E-02    | 1.18E+00   | 1.87E+00              | 8.90E-01 | 3.05E+00  | 9.30E-01    | 8.00E-02    | 2.13E+00   |
| 15        | 1.03E+00                                                                                 | 4.90E-01 | 1.60E+00  | 5.10E-01    | 4.00E-02    | 1.18E+00   | 1.87E+00              | 8.90E-01 | 3.05E+00  | 9.30E-01    | 8.00E-02    | 2.13E+00   |
| 16        | 1.03E+00                                                                                 | 4.90E-01 | 1.60E+00  | 5.10E-01    | 4.00E-02    | 1.18E+00   | 1.87E+00              | 8.90E-01 | 3.05E+00  | 9.30E-01    | 8.00E-02    | 2.13E+00   |
| 17        | 1.26E+00                                                                                 | 6.00E-01 | 1.18E+00  | 6.90E-01    | 9.00E-02    | 1.27E+00   | 2.36E+00              | 1.12E+00 | 2.35E+00  | 1.29E+00    | 1.80E-01    | 2.38E+00   |
| 18        | 1.35E+00                                                                                 | 6.40E-01 | 1.25E+00  | 7.40E-01    | 1.00E-01    | 1.36E+00   | 2.34E+00              | 1.12E+00 | 2.36E+00  | 1.28E+00    | 1.80E-01    | 2.37E+00   |

Top 2 applied? Yes

Where top 2 method is applied, two produce categories use 90th percentile rates, while the remainder use the mean. Produce categories vary on a chemical-by-chemical basis. Where top 2 method is not used, all produce categories for all chemicals assume 90th percentile rates.

**Building** Small terraced house**Soil** Sandy loam

|                                                    |          |                                                                            |          |
|----------------------------------------------------|----------|----------------------------------------------------------------------------|----------|
| Building footprint (m <sup>2</sup> )               | 2.80E+01 | Porosity, Total (cm <sup>3</sup> cm <sup>-3</sup> )                        | 5.30E-01 |
| Living space air exchange rate (hr <sup>-1</sup> ) | 5.00E-01 | Porosity, Air-Filled (cm <sup>3</sup> cm <sup>-3</sup> )                   | 2.00E-01 |
| Living space height (above ground, m)              | 4.80E+00 | Porosity, Water-Filled (cm <sup>3</sup> cm <sup>-3</sup> )                 | 3.30E-01 |
| Living space height (below ground, m)              | 0.00E+00 | Residual soil water content (cm <sup>3</sup> cm <sup>-3</sup> )            | 1.20E-01 |
| Pressure difference (soil to enclosed space, Pa)   | 3.10E+00 | Saturated hydraulic conductivity (cm s <sup>-1</sup> )                     | 3.56E-03 |
| Foundation thickness (m)                           | 1.50E-01 | van Genuchten shape parameter <i>m</i> (dimensionless)                     | 3.20E-01 |
| Floor crack area (cm <sup>2</sup> )                | 4.23E+02 | Bulk density (g cm <sup>-3</sup> )                                         | 1.21E+00 |
| Dust loading factor (µg m <sup>-3</sup> )          | 5.00E+01 | Threshold value of wind speed at 10m (m s <sup>-1</sup> )                  | 7.20E+00 |
|                                                    |          | Empirical function ( <i>F<sub>a</sub></i> ) for dust model (dimensionless) | 1.22E+00 |
|                                                    |          | Ambient soil temperature (K)                                               | 2.83E+02 |
|                                                    |          | Soil pH                                                                    | 7.40E+00 |
|                                                    |          | Soil Organic Matter content (%)                                            | 8.60E-01 |
|                                                    |          | Fraction of organic carbon (g g <sup>-1</sup> )                            | 4.99E-03 |
|                                                    |          | Effective total fluid saturation (unitless)                                | 5.12E-01 |
|                                                    |          | Intrinsic soil permeability (cm <sup>2</sup> )                             | 4.75E-08 |
|                                                    |          | Relative soil air permeability (unitless)                                  | 6.42E-01 |
|                                                    |          | Effective air permeability (cm <sup>2</sup> )                              | 3.05E-08 |

**Soil - Vapour Model**

|                                                           |          |
|-----------------------------------------------------------|----------|
| Depth to top of source (no building) (cm)                 | 0        |
| Depth to top of source (beneath building) (cm)            | 65       |
| Default soil gas ingress rate?                            | Yes      |
| Soil gas ingress rate ( $\text{cm}^3 \text{s}^{-1}$ )     | 2.50E+01 |
| Building ventilation rate ( $\text{cm}^3 \text{s}^{-1}$ ) | 1.87E+04 |
| Averaging time surface emissions (yr)                     | 6        |
| Finite vapour source model?                               | No       |
| Thickness of contaminated layer (cm)                      | 200      |

**Air Dispersion Model**

|                                                                                   |         |
|-----------------------------------------------------------------------------------|---------|
| Mean annual windspeed at 10m ( $\text{m s}^{-1}$ )                                | 5.00    |
| Air dispersion factor at height of 0.8m *                                         | 2400.00 |
| Air dispersion factor at height of 1.6m *                                         | 0.00    |
| Fraction of site cover ( $\text{m}^2 \text{m}^{-2}$ )                             | 0.75    |
| * Air dispersion factor in $\text{g m}^{-2} \text{s}^{-1}$ per $\text{kg m}^{-3}$ |         |

**Soil - Plant Model**

|                  | Dry weight conversion factor | Homegrown fraction |      | Soil loading factor  | Preparation correction factor |
|------------------|------------------------------|--------------------|------|----------------------|-------------------------------|
|                  | g DW $\text{g}^{-1}$ FW      | Average            | High |                      |                               |
|                  |                              | dimensionless      |      | g $\text{g}^{-1}$ DW | dimensionless                 |
| Green vegetables | 0.096                        | 0.05               | 0.33 | 1.00E-03             | 2.00E-01                      |
| Root vegetables  | 0.103                        | 0.06               | 0.40 | 1.00E-03             | 1.00E+00                      |
| Tuber vegetables | 0.210                        | 0.02               | 0.13 | 1.00E-03             | 1.00E+00                      |
| Herbaceous fruit | 0.058                        | 0.06               | 0.40 | 1.00E-03             | 6.00E-01                      |
| Shrub fruit      | 0.166                        | 0.09               | 0.60 | 1.00E-03             | 6.00E-01                      |
| Tree fruit       | 0.157                        | 0.04               | 0.27 | 1.00E-03             | 6.00E-01                      |

Gardener type Average

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CLEA Software Version 1.071

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Report generated 21-Jun-18

Report title Woodcroft Farm, Lovedean

Created by FG at GESL



Environment  
Agency

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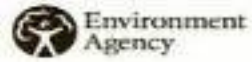
**RESULTS**

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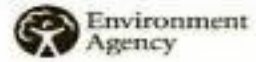
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Show individual summary

## Test Results

Arsenic (mg/kg)

Client/client ref: Grainger PLC Site ref: Woodcroft Farm - Horse Arena

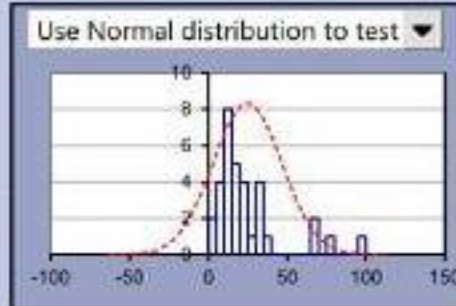
Date: 11-Jun-2018

Project ref: GE16943

Data description:

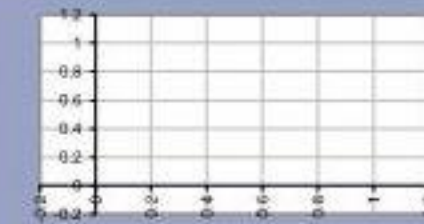
User details: FG

|                                    |                   |
|------------------------------------|-------------------|
| <b>Datase</b>                      | Arsenic (mg/kg) ▼ |
| Sample mean (mg/kg) $\bar{x}$      | 24.667            |
| Sample standard deviation, s       | 21.811            |
| Sample size, n                     | 33                |
| Critical concentration, Cc (mg/kg) | 38.03             |



### Outliers & non-detects

|                    |      |
|--------------------|------|
| Outliers present?  | Yes  |
| Significance level | 5% ▼ |
| Outliers excluded  | 0    |
| Non-detects        | 0    |

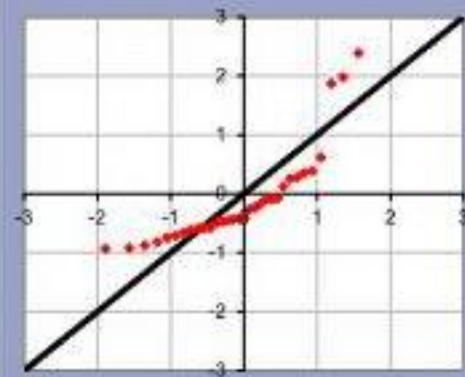


### Normality test

Significance level 5% ▼

Non-normal distribution

Use: Auto: Chebychev ▼

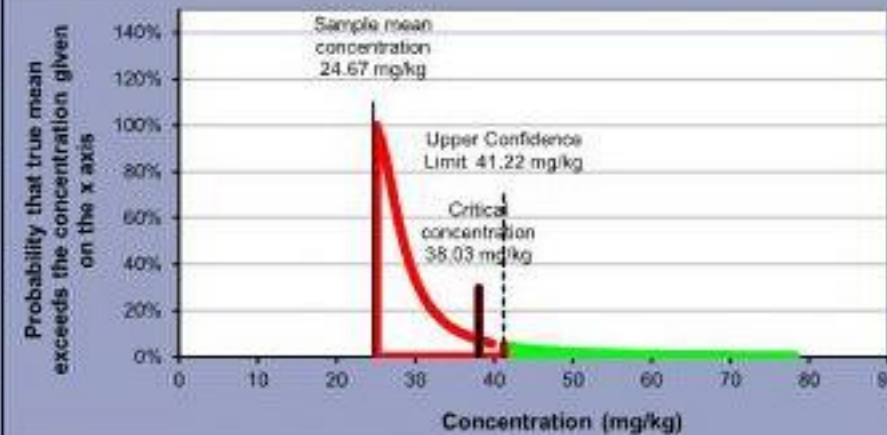


### Test scenario:

Planning: is true mean lower than critical concentration ( $\mu < C_c$ )? ▼

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration:  $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration:  $\mu < C_c$



### Evidence against Null hypothesis:

93%

Base decision on: evidence level ▼

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? No

**Not enough evidence**

[Back to data](#)

[Back to summary](#)

[Go to outlier test](#)

[Go to normality test](#)

[illegible]

The screenshot shows a software interface for outlier analysis. At the top left, a table displays the results of an outlier test:

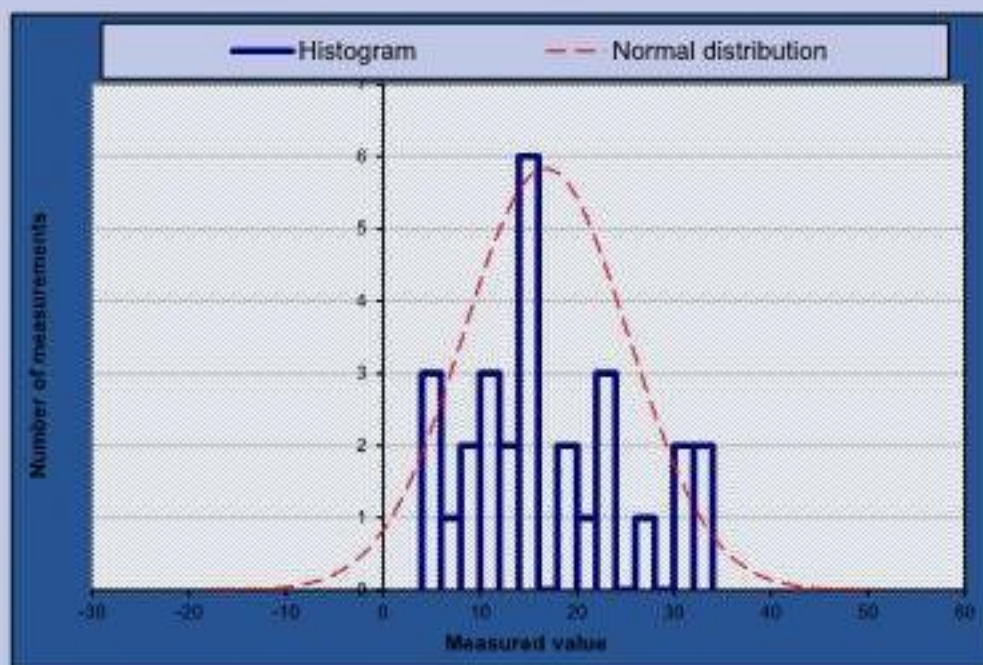
|              |
|--------------|
| Outliers?    |
| No           |
| (5 selected) |

To the right of this table is a scatter plot with a grid. The y-axis is labeled from 0.0 to 1.0 in increments of 0.2. The x-axis is labeled from -6 to 6 in increments of 2. The plot area is currently empty.

Below the table and plot, the 'Dataset' dropdown menu is set to 'Arsenic (mg/kg) C/T 28/33'. The 'Use' dropdown menu is set to 'Normal', and the text 'distribution to test for outliers' is displayed to its right.

Four large, rectangular buttons are arranged vertically in the center of the interface:

- Exclude identified outliers**
- Show individual summary**
- Back to summary**
- Back to data**



## Test Results

Arsenic (mg/kg) O/T:28/33

Client/client ref: Grainger PLC

Project ref: GE16943

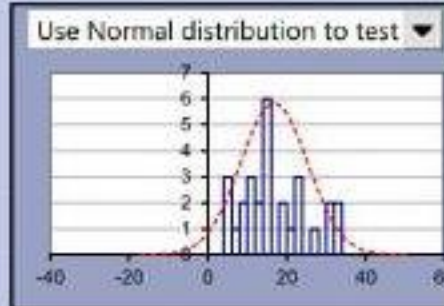
Site ref: Woodcroft Farm - Horse Arena

Data description:

Date: 11-Jun-2018

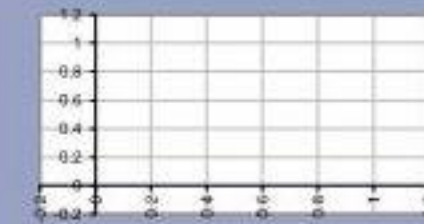
User details: FG

|                                    |                           |
|------------------------------------|---------------------------|
| <b>Datase</b>                      | Arsenic (mg/kg) O/T:28/33 |
| Sample mean (mg/kg) $\bar{x}$      | 16.768                    |
| Sample standard deviation, s       | 8.4998                    |
| Sample size, n                     | 28                        |
| Critical concentration, Cc (mg/kg) | 38.03                     |



### Outliers & non-detects

|                    |        |
|--------------------|--------|
| Outliers present?  | No     |
| Significance level | 5%     |
| Outliers excluded  | 5      |
| Non-detects        | #NAME? |

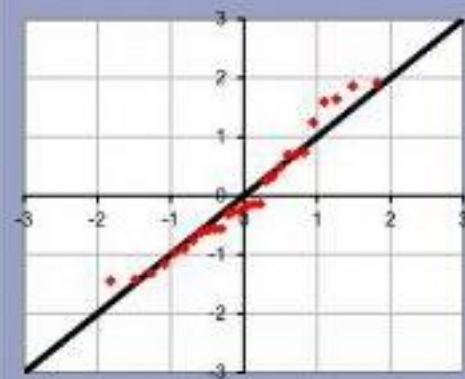


### Normality test

Significance level 5%

Normal distribution

Use: Auto: One-sample

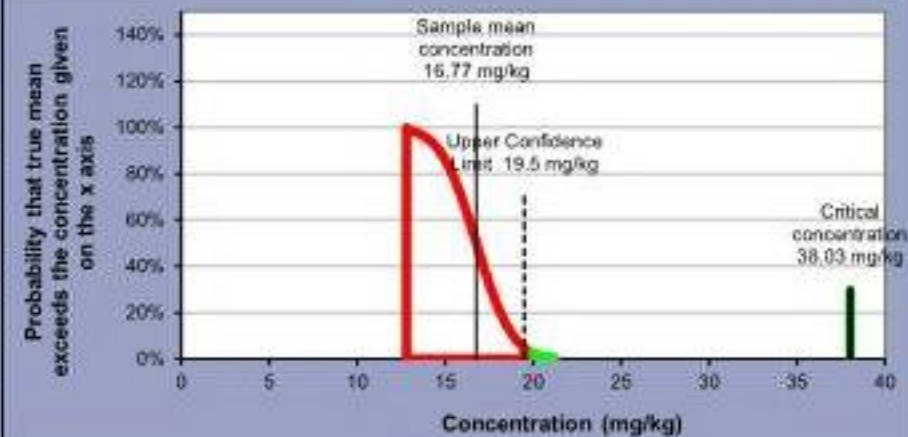


### Test scenario:

Planning: is true mean lower than critical concentration ( $\mu < C_c$ )?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration:  $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration:  $\mu < C_c$



|                                                    |                |
|----------------------------------------------------|----------------|
| <b>Evidence against Null hypothesis:</b>           | 100%           |
| Base decision on:                                  | evidence level |
| Evidence level required:                           | 95%            |
| Balance of probability?                            | N/A            |
| Reject Null Hypothesis?                            | Yes            |
| <b><math>\mu &lt; C_c</math> (re this dataset)</b> |                |

Back to data

Back to summary

Go to outlier test

Go to normality test

## Test Results

Beryllium (mg/kg)

Client/client ref: Grainger PLC

Site ref: Woodcroft Farm - Horse Arena

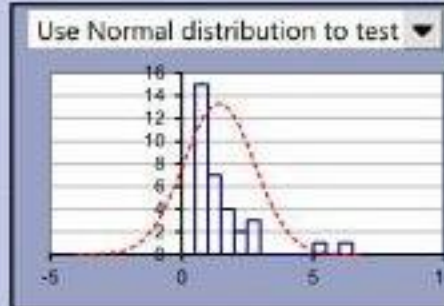
Date: 11-Jun-2018

Project ref: GE16943

Data description:

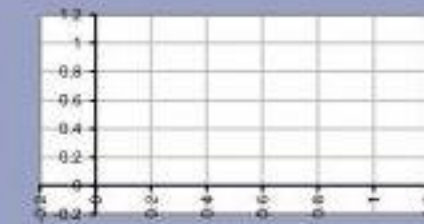
User details: FG

|                                    |                   |
|------------------------------------|-------------------|
| <b>Datase</b>                      | Beryllium (mg/kg) |
| Sample mean (mg/kg) $\bar{x}$      | 1.4212            |
| Sample standard deviation, s       | 1.3407            |
| Sample size, n                     | 33                |
| Critical concentration, Cc (mg/kg) | 1.72              |



### Outliers & non-detects

|                    |        |
|--------------------|--------|
| Outliers present?  | Yes    |
| Significance level | 5%     |
| Outliers excluded  | 0      |
| Non-detects        | #NAME? |

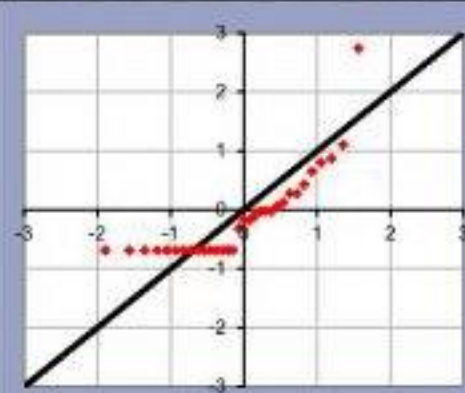


### Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev

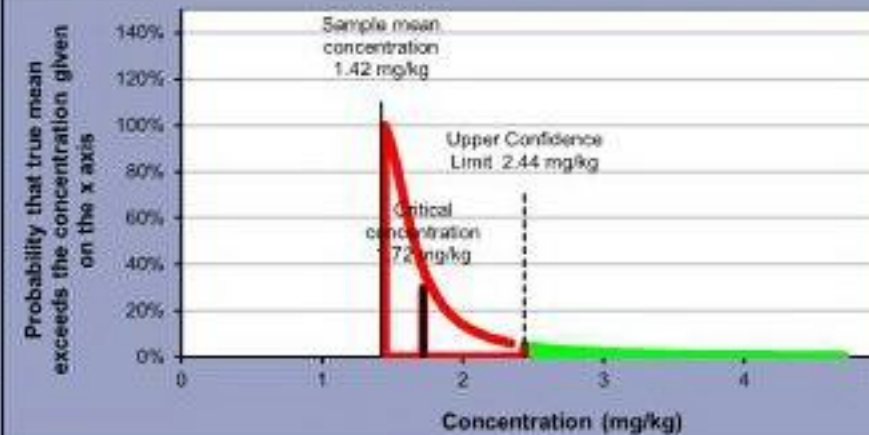


### Test scenario:

Planning: is true mean lower than critical concentration ( $\mu < C_c$ )?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration:  $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration:  $\mu < C_c$



### Evidence against Null hypothesis:

62%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? No

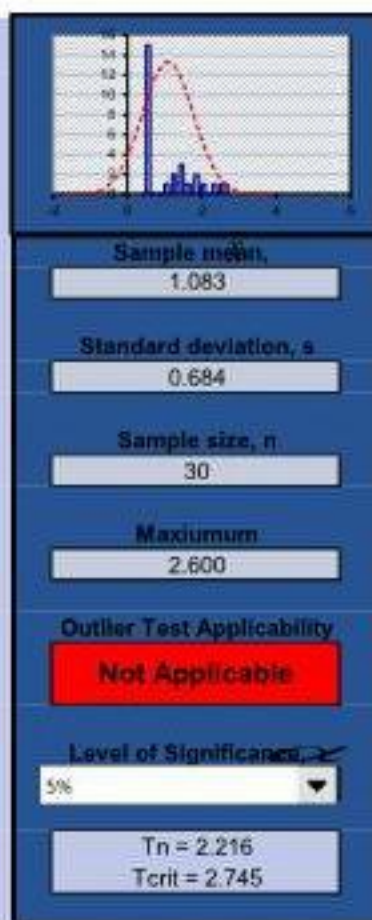
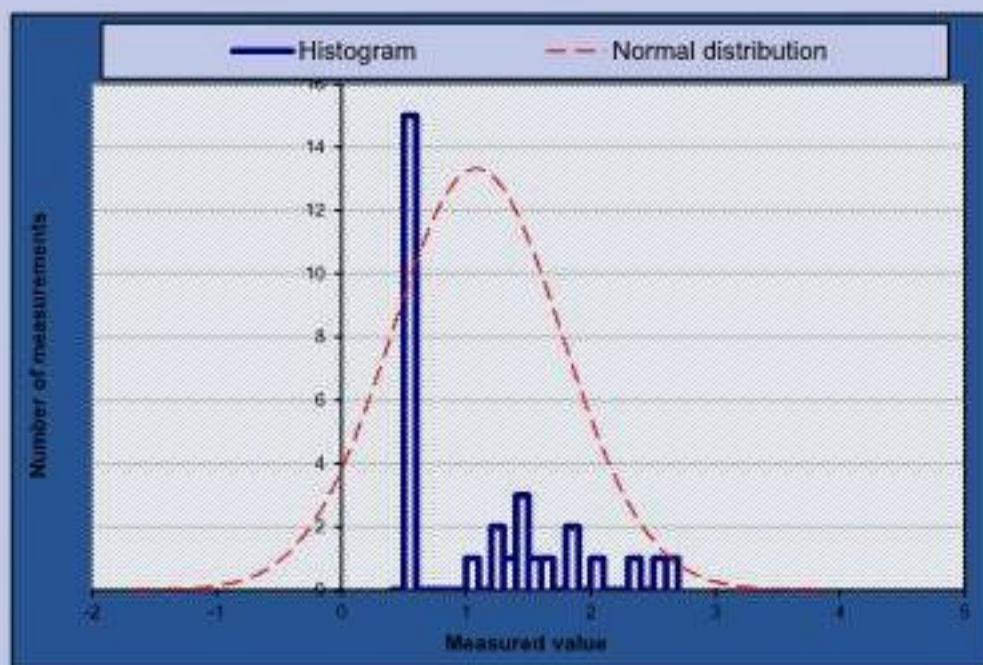
**Not enough evidence**

Back to data

Back to summary

Go to outlier test

Go to normality test

[illegible][illegible]

## Test Results

Beryllium (mg/kg) O/T:30/33

Client/client ref: Grainger PLC

Project ref: GE16943

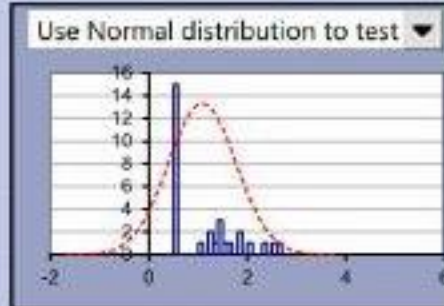
Site ref: Woodcroft Farm - Horse Arena

Data description:

Date: 11-Jun-2018

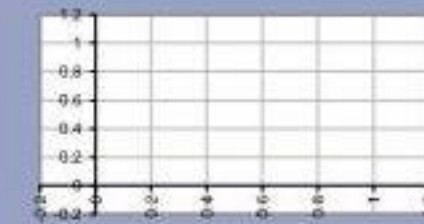
User details: FG

|                                    |                             |
|------------------------------------|-----------------------------|
| <b>Datase</b>                      | Beryllium (mg/kg) O/T:30/33 |
| Sample mean (mg/kg) $\bar{x}$      | 1.0833                      |
| Sample standard deviation, s       | 0.6843                      |
| Sample size, n                     | 30                          |
| Critical concentration, Cc (mg/kg) | 1.72                        |



### Outliers & non-detects

|                    |        |
|--------------------|--------|
| Outliers present?  | No     |
| Significance level | 5%     |
| Outliers excluded  | 3      |
| Non-detects        | #NAME? |

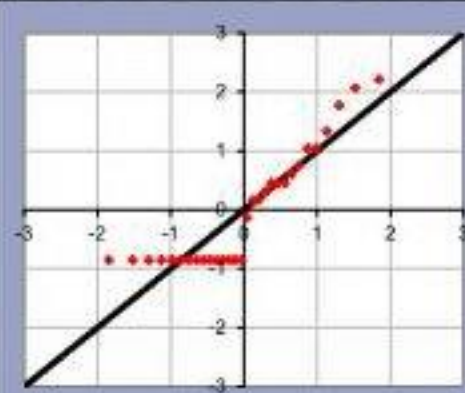


### Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev

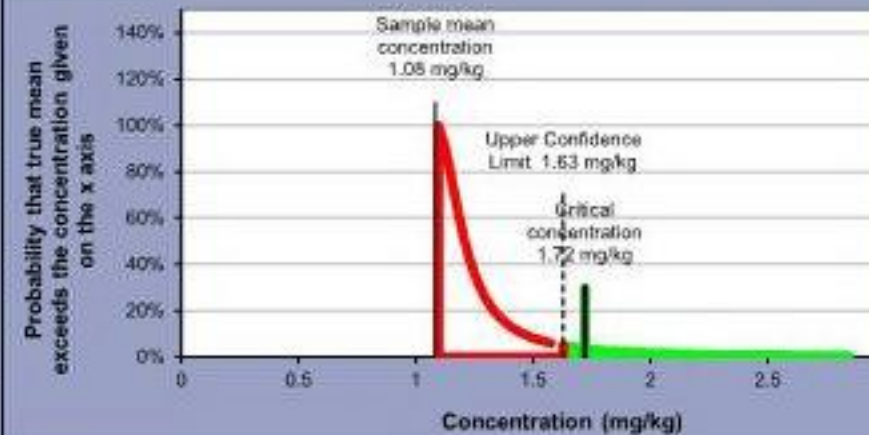


### Test scenario:

Planning: is true mean lower than critical concentration ( $\mu < C_c$ )?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration:  $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration:  $\mu < C_c$



### Evidence against Null hypothesis:

96%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? Yes

$\mu < C_c$  (re this dataset)

Back to data

Back to summary

Go to outlier test

Go to normality test

## Test Results

Nickel (mg/kg)

Client/client ref: Grainger PLC

Site ref: Woodcroft Farm - Horse Arena

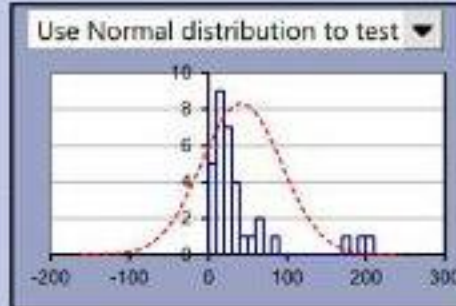
Date: 11-Jun-2018

Project ref: GE16943

Data description:

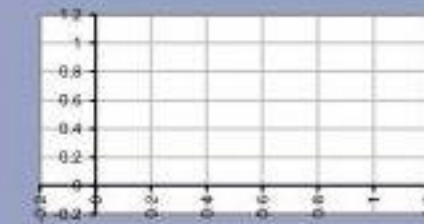
User details: FG

|                                    |                |
|------------------------------------|----------------|
| <b>Datase</b>                      | Nickel (mg/kg) |
| Sample mean (mg/kg)                | 41.906         |
| Sample standard deviation, s       | 50.321         |
| Sample size, n                     | 33             |
| Critical concentration, Cc (mg/kg) | 180            |



### Outliers & non-detects

|                    |        |
|--------------------|--------|
| Outliers present?  | Yes    |
| Significance level | 5%     |
| Outliers excluded  | 0      |
| Non-detects        | #NAME? |

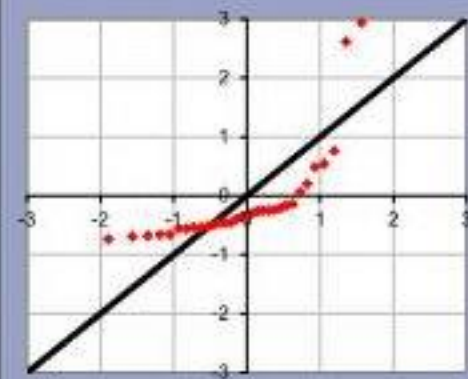


### Normality test

Significance level 5%

Non-normal distribution

Use: Auto: Chebychev

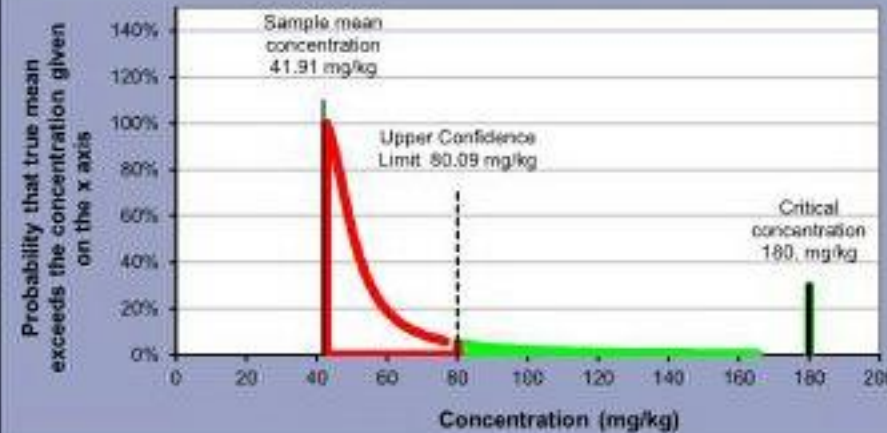


### Test scenario:

Planning: is true mean lower than critical concentration ( $\mu < C_c$ )?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration:  $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration:  $\mu < C_c$



### Evidence against Null hypothesis:

100%

Base decision on: evidence level

Evidence level required: 95%

Balance of probability? N/A

Reject Null Hypothesis? Yes

$\mu < C_c$  (re this dataset)

Back to data

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Go to outlier test

Go to normality test



## APPENDIX C

### BRE Cover System Calculation Sheet







## APPENDIX D

### Imported Soils Criteria





Geo-Environmental

**IMPORTED SOIL SPECIFICATION**

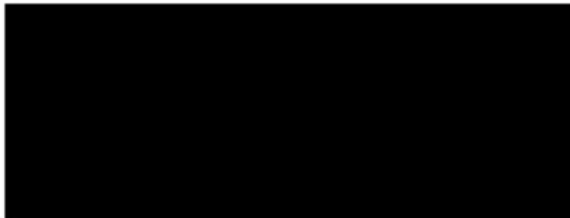
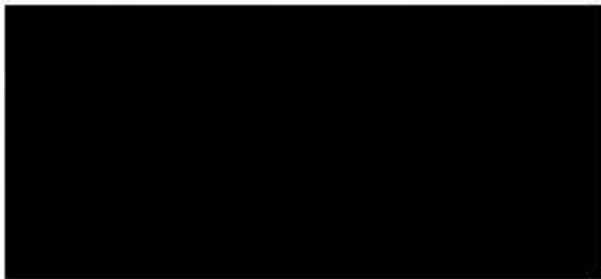
**for the site at**

**WOODCROFT FARM, WOODCROFT LANE,  
LOVEDEAN, HAMPSHIRE, PO8 9QA**

**on behalf of**

**GRAINGER PLC**



|                                                                                                                                                                                              |                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Report:                                                                                                                                                                                      | IMPORTED SOIL SPECIFICATION                                                                                                                                           |
| Site:                                                                                                                                                                                        | WOODCROFT FARM, WOODCROFT LANE, LOVEDEAN, HAMPSHIRE, PO8 9QA                                                                                                          |
| Client:                                                                                                                                                                                      | GRAINGER PLC                                                                                                                                                          |
| Date:                                                                                                                                                                                        | 28-06-2018                                                                                                                                                            |
| Reference:                                                                                                                                                                                   | GE16943-ISS-180628                                                                                                                                                    |
| Revision:                                                                                                                                                                                    | 1.0                                                                                                                                                                   |
| Prepared by:                                                                                                                                                                                 | <br>FIONA GOODE BSc (Hons), MSc, FGS, MEnvSc, RSoBRA<br>SENIOR CONSULTING ENGINEER |
| Reviewed by:                                                                                                                                                                                 | <br>GAVIN ROBERTS CGeol, BEng (Hons), MSc, FGS<br>TECHNICAL DIRECTOR              |
| <b>Geo-Environmental Services Limited</b><br>Unit 7, Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex, BN6 9GL<br>+44(0)1273 832972 <a href="http://www.gesl.net">www.gesl.net</a> |                                                                                                                                                                       |



### AMENDMENT RECORD

| Revision ref. | Date       | Reasons for amendment | Author's initials |
|---------------|------------|-----------------------|-------------------|
| 1.0           | 28/06/2018 | First issue           | FG                |
|               |            |                       |                   |
|               |            |                       |                   |
|               |            |                       |                   |
|               |            |                       |                   |



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| 3.0 | Nutritional Composition      | 5 |
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## **1.0 Introduction**

This document sets out the requirements for imported subsoil and Topsoil materials for any project undergoing redevelopment or other works where capping work is required.

Within the specification reference has been made to topsoil and subsoil. Topsoil relates to the top layer of natural soil that can support healthy vegetation growth. Subsoil relates to the layer of soil immediately below the topsoil to the depth of the underlying broken rock or geological parent material.

The specification considers the chemical, nutritional and physical properties of soils that are to be imported onto site in order to ensure materials used are suitable for their intended use and do not introduce any new hazard or pollutant linkage on to the site.

Where there is any discrepancy between this specification and BS3882:2015 or BS8601:2013, the latter documents shall take precedence unless otherwise formally confirmed by the relevant regulator.

## **2.0 Chemical Composition**

The chemical criteria listed below are based on the published Category 4 Screening Levels (C4SLs) by DEFRA and/or the relevant Suitable for Use Levels (S4ULs) published by LQM, for a residential end use with plant uptake. From time to time these values may change in line with regulatory or UK policy changes. Such changes will require revision and re-issue of this document.

Where C4SLs or S4ULs are published for a range of Soil Organic Matter (SOM) values, these ranges and their respective SOM values have been presented and would be considered when assessing compliance with this Specification.

### **2.1 Method of Analysis**

Samples should be analysed using UKAS or MCERTS accredited laboratories. For TPH analysis sample preparation must not include air drying.

#### **2.1.1 Poly Aromatic Hydrocarbon (PAH)**

The PAH analysis must include the EPA priority 16.

#### **2.1.2 Total Petroleum Hydrocarbons (TPH)**

The analysis for TPH should be undertaken on the 'as received' sample and not be subject to any pre-treatment and shall include aliphatic and aromatic carbon banding split.

### **2.2 Topsoil (0-300mm depth)**

Tables 1, 1a, 1b and 1c provide a list of the maximum acceptable concentrations for a range of determinants for imported topsoil.



| Determinant                             | Maximum concentration (mg/kg) |
|-----------------------------------------|-------------------------------|
| Inorganic                               | SOM 6%                        |
| Arsenic (total)                         | 37                            |
| Boron (water soluble)                   | 290                           |
| Cadmium (total)                         | 11                            |
| Chromium (total)                        | 130                           |
| Copper (total)                          | 2400                          |
| Cyanide (total)                         | 250                           |
| Lead (total)                            | 200                           |
| Mercury (total inorganic)               | 40                            |
| Nickel (total)                          | 180                           |
| pH                                      | 5.5 – 7.8                     |
| Selenium (total)                        | 250                           |
| Sulphate (total)                        | 2000                          |
| Zinc (total)                            | 3700                          |
| Asbestos                                | Absent                        |
| Organic                                 |                               |
| Phenols (total)                         | 110                           |
| Poly Aromatic Hydrocarbon (speciated)   | See Table 1a                  |
| Total Petroleum Hydrocarbon (speciated) | See Table 1b                  |

**Table 1 Chemical Specification for Topsoil**

| Determinant           | Maximum Concentration (mg/kg) |          |        |
|-----------------------|-------------------------------|----------|--------|
|                       | 1% SOM                        | 2.5% SOM | 6% SOM |
| Acenaphthene          | 210                           | 510      | 1100   |
| Acenaphthylene        | 170                           | 420      | 920    |
| Anthracene            | 2400                          | 5400     | 11000  |
| Benz(a)anthracene     | 7.2                           | 11       | 13     |
| Benzo(a)pyrene        | 2.2                           | 2.7      | 3.0    |
| Benzo(b)fluoranthene  | 2.6                           | 3.3      | 3.7    |
| Benzo(ghi)perylene    | 320                           | 340      | 350    |
| Benzo(k)fluoranthene  | 77                            | 93       | 100    |
| Chrysene              | 15                            | 22       | 27     |
| Dibenz(ah)anthracene  | 0.24                          | 0.28     | 0.30   |
| Fluoranthene          | 280                           | 560      | 890    |
| Fluorene              | 170                           | 400      | 860    |
| Indeno(1,2,3CD)pyrene | 27                            | 36       | 41     |
| Naphthalene           | 2.3                           | 5.6      | 13.0   |
| Phenanthrene          | 95                            | 220      | 440    |
| Pyrene                | 620                           | 1200     | 2000   |

**Table 1a Topsoil Specification for Speciated PAH**

| Determinant | Maximum Concentration (mg/kg) |          |        |
|-------------|-------------------------------|----------|--------|
|             | 1% SOM                        | 2.5% SOM | 6% SOM |
| Aliphatic   |                               |          |        |
| EC 5-6      | 42                            | 78       | 160    |
| EC >6-8     | 100                           | 230      | 530    |
| EC >8-10    | 27                            | 65       | 150    |
| EC >10-12   | 130                           | 330      | 760    |



| Determinant                   | Maximum Concentration (mg/kg) |          |        |
|-------------------------------|-------------------------------|----------|--------|
|                               | 1% SOM                        | 2.5% SOM | 6% SOM |
| EC >12-16                     | 1100                          | 2400     | 4300   |
| EC >16-35                     | 65000                         | 92000    | 110000 |
| EC >35-44                     | 65000                         | 92000    | 110000 |
| <b>Aromatic</b>               |                               |          |        |
| EC 5-7 (benzene)              | 70                            | 140      | 300    |
| EC >7-8 (toluene)             | 130                           | 290      | 660    |
| EC >8-10                      | 34                            | 83       | 190    |
| EC >10-12                     | 74                            | 180      | 380    |
| EC >12-16                     | 140                           | 330      | 660    |
| EC >16-21                     | 260                           | 540      | 930    |
| EC >21-35                     | 1100                          | 1500     | 1700   |
| EC >35-44                     | 1100                          | 1500     | 1700   |
| <b>Aliphatic and Aromatic</b> |                               |          |        |
| EC >44-70                     | 1600                          | 1800     | 1900   |

Table 1b Topsoil Specification for Speciated TPH

| Determinant | Phytotoxicity GAC (mg/kg) |            |         |
|-------------|---------------------------|------------|---------|
|             | pH <6.0                   | pH 6.0-7.0 | pH >7.0 |
| Zinc        | 200                       | 200        | 300     |
| Copper      | 100                       | 135        | 200     |
| Nickel      | 60                        | 75         | 110     |

Table 1c Topsoil Specification for phytotoxicity

### 2.3 Subsoil (300-1000mm depth)

Tables 2, 2a, 2b and 2c provide a list of the maximum acceptable concentrations for a range of determinants for imported subsoil.

| Determinant                           | Maximum concentration (mg/kg) |
|---------------------------------------|-------------------------------|
| <b>Inorganic</b>                      | <b>SOM 6%</b>                 |
| Arsenic (total)                       | 37                            |
| Boron (water soluble)                 | 290                           |
| Cadmium (total)                       | 11                            |
| Chromium (total)                      | 130                           |
| Copper (total)                        | 2400                          |
| Cyanide (total)                       | 250                           |
| Lead (total)                          | 200                           |
| Mercury (total inorganic)             | 40                            |
| Nickel (total)                        | 180                           |
| pH                                    | 5.5 – 7.8                     |
| Selenium (total)                      | 250                           |
| Sulphate (total)                      | 2000                          |
| Zinc (total)                          | 3700                          |
| Asbestos                              | Absent                        |
| <b>Organic</b>                        |                               |
| Phenols (total)                       | 110                           |
| Poly Aromatic Hydrocarbon (speciated) | See Table 2a                  |



| Determinant                             | Maximum concentration (mg/kg) |
|-----------------------------------------|-------------------------------|
| Inorganic                               | SOM 6%                        |
| Total Petroleum Hydrocarbon (speciated) | See Table 2b                  |

**Table 2 Chemical Specification for Subsoil**

| Determinant           | Maximum Concentration (mg/kg) |          |        |
|-----------------------|-------------------------------|----------|--------|
|                       | 1% SOM                        | 2.5% SOM | 6% SOM |
| Acenaphthene          | 210                           | 510      | 1100   |
| Acenaphthylene        | 170                           | 420      | 920    |
| Anthracene            | 2400                          | 5400     | 11000  |
| Benz(a)anthracene     | 7.2                           | 11       | 13     |
| Benzo(a)pyrene        | 2.2                           | 2.7      | 3.0    |
| Benzo(b)fluoranthene  | 2.6                           | 3.3      | 3.7    |
| Benzo(ghi)perylene    | 320                           | 340      | 350    |
| Benzo(k)fluoranthene  | 77                            | 93       | 100    |
| Chrysene              | 15                            | 22       | 27     |
| Dibenz(ah)anthracene  | 0.24                          | 0.28     | 0.30   |
| Fluoranthene          | 280                           | 560      | 890    |
| Fluorene              | 170                           | 400      | 860    |
| Indeno(1,2,3CD)pyrene | 27                            | 36       | 41     |
| Naphthalene           | 2.3                           | 5.6      | 13.0   |
| Phenanthrene          | 95                            | 220      | 440    |
| Pyrene                | 620                           | 1200     | 2000   |

**Table 2a Subsoil Specification for Speciated PAH**

| Determinant                   | Maximum Concentration (mg/kg) |          |        |
|-------------------------------|-------------------------------|----------|--------|
|                               | 1% SOM                        | 2.5% SOM | 6% SOM |
| <b>Aliphatic</b>              |                               |          |        |
| EC 5-6                        | 42                            | 78       | 160    |
| EC >6-8                       | 100                           | 230      | 530    |
| EC >8-10                      | 27                            | 65       | 150    |
| EC >10-12                     | 130                           | 330      | 760    |
| EC >12-16                     | 1100                          | 2400     | 4300   |
| EC >16-35                     | 65000                         | 92000    | 110000 |
| EC >35-44                     | 65000                         | 92000    | 110000 |
| <b>Aromatic</b>               |                               |          |        |
| EC 5-7 (benzene)              | 70                            | 140      | 300    |
| EC >7-8 (toluene)             | 130                           | 290      | 660    |
| EC >8-10                      | 34                            | 83       | 190    |
| EC >10-12                     | 74                            | 180      | 380    |
| EC >12-16                     | 140                           | 330      | 660    |
| EC >16-21                     | 260                           | 540      | 930    |
| EC >21-35                     | 1100                          | 1500     | 1700   |
| EC >35-44                     | 1100                          | 1500     | 1700   |
| <b>Aliphatic and Aromatic</b> |                               |          |        |
| EC >44-70                     | 1600                          | 1800     | 1900   |

**Table 2b Subsoil Specification for Speciated TPH**

| Determinant | Phytotoxicity GAC (mg/kg) |            |         |
|-------------|---------------------------|------------|---------|
|             | pH <6.0                   | pH 6.0-7.0 | pH >7.0 |
| Zinc        | 200                       | 200        | 300     |
| Copper      | 100                       | 135        | 200     |
| Nickel      | 60                        | 75         | 110     |

**Table 2c Subsoil Specification for phytotoxicity**

### 3.0 Nutritional Composition

The nutritional criteria listed below are based on BS3882:2015 for topsoil and BS8601:2013 for subsoil. In the absence of published criteria, current guidance and best practice has been applied to derive appropriate criteria.

#### 3.1 Topsoil & Subsoil

Table 3 details the minimum acceptable concentrations for imported topsoil and subsoil. The nutrient concentrations set out in Table 3 for Topsoil are based on those set out in BS3882:2015 which states “*Multipurpose topsoil is the grade suited to most situations where topsoil is required; however, there can be situations where specific purpose topsoil is required*”. In the event that an alternative specific Topsoil grade is required, i.e. acidic; calcareous; low fertility; low fertility acidic; or low fertility calcareous, the compliance criteria set out in BS3882:2015 shall be applicable in place of those set out in Table 3 below.

| Topsoil/Subsoil                      | Parameter             | Concentration   |
|--------------------------------------|-----------------------|-----------------|
| Topsoil<br>(multipurpose grade only) | Phosphorous           | 16 – 140 mg/l   |
|                                      | Potassium             | 121 – 1500 mg/l |
|                                      | Magnesium             | 51 – 600 mg/l   |
|                                      | Nitrogen              | 0.15 % m/m      |
|                                      | Carbon:nitrogen ratio | <20:1           |
| Subsoil                              | Phosphorous           | 16 mg/l         |
|                                      | Potassium             | 121 mg/l        |
|                                      | Magnesium             | 51 mg/l         |
|                                      | Nitrogen              | 0.15 %          |
|                                      | Carbon:nitrogen ratio | <20:1           |

**Table 3 Nutritional Specification for Topsoil and Subsoil**

### 4.0 Physical Composition

The physical criteria listed below are based on BS3882:2015 Specification for Topsoil. In the absence of published criteria, current guidance and best practice has been applied to derive appropriate criteria.

#### 4.1 Topsoil

Table 4 details the physical suitability requirements for imported topsoil and subsoil. Table 4 sets out acceptability criteria from BS3882:2015 for multipurpose Topsoil. In the event that an alternative specific Topsoil grade is required, i.e. acidic; calcareous; low fertility; low fertility acidic; or low fertility calcareous, the compliance criteria set out in BS3882:2015 shall be applicable in place of those set out in Table 4 below.



| Topsoil/Subsoil                        | Parameter               | Specification requirements                                                                     |
|----------------------------------------|-------------------------|------------------------------------------------------------------------------------------------|
| Topsoil<br>(multipurpose Topsoil only) | Textural Classification | Sandy clay loam, sandy loam, loamy sand, sandy silt loam (as defined in BS3882:2015, Figure 1) |
|                                        | Loss on Ignition        | 3 - 20% (for 5-20% clay soil)<br>5 - 20% (for 20-35% clay soil)                                |
|                                        | Maximum Stone content:  | >2mm = 30%<br>>20mm = 10%<br>>50mm = 0%                                                        |
| Subsoil                                | Textural Classification | Refer to BS8601:2013 Figure 1                                                                  |
|                                        | Loss on Ignition        | 2%                                                                                             |
|                                        | Maximum Stone content:  | >2mm = 40%<br>>20mm = 20%<br>>75mm = 0%                                                        |

NB: Topsoil and Subsoil must be free from glass, brick fragments, plastic, metal, asbestos and other deleterious materials.

**Table 4 Physical Specification for Topsoil & Subsoil**

## 5.0 Source Requirements

### 5.1 Topsoil and Subsoil

The following will be provided with all soils imported to site:

- A site plan detailing the location and address of the source site, including grid reference.
- Location description of source material, including historic and current site uses.
- Sample analysis results of material at source, including details of laboratory, date of sampling, date samples received by laboratory etc.

### 5.2 Manufactured soils

Where natural soils are unavailable manufactured soils may be utilised, and the following should be provided:

- Details of the soil manufacturing process, including criteria for received soils, quality control procedure and validation protocol.
- Soils should be tested at a minimum ratio of one sample per 50m<sup>3</sup>.

## 6.0 Testing Rates and Compliance

Sampling shall be undertaken in accordance with BS3882:2015 and BS8601:2013.

### 6.1 Topsoil

Where natural sourcing is proposed, the provenance of the material shall be determined by analysis of the soils at a minimum rate of 3No. samples per source site (up to 250m<sup>3</sup>) and 1 sample per 250m<sup>3</sup> thereafter. Imported soils should be sampled once it has been laid on the site to support the analysis provided by the source supplier.

Where Topsoil is derived from a manufactured source, testing would be undertaken at a rate of 1 sample per 50m<sup>3</sup>, with a minimum of 3No. tests for any given potential source material (or production batch).

## 6.2 Subsoil

Where the source of the material is known validation sampling should be undertaken at a minimum rate of 3 samples per source (up to 250m<sup>3</sup>) and 1 sample per 250m<sup>3</sup> thereafter. Imported soils should be sampled once it has been laid on the site to support the analysis provided by the source supplier.

Where subsoil is derived from a manufactured source, testing would be undertaken at a rate of 1 sample per 50m<sup>3</sup>, with a minimum of 3No. tests for any given potential source material (or production batch)

Where the source of the material is not known the validation sampling should be undertaken in-line with the testing rates as set out for cover systems to ensure the materials are suitable for their intended use. Further guidance on minimum testing under this scenario is presented in Section 6.3 below.

## 6.3 Cover Systems

Where a cover system/ capping layer is proposed as part of the required remedial measures, sampling frequency will follow the guidance set out by the NHBC in their guidance for clean cover systems (2010) and supplemented within NHBC Technical Extra Guidance Issue 8, November 2012, outlined below:

- Sites with more than 30 plots testing should be conducted at a rate of one plot in four, with a minimum of 10 tests across the site;
- Sites with between 20 – 30 plots testing should be conducted at a rate of one plot in three, with a minimum of 7 tests across the site;
- Sites with between 5 -20 plots testing should be conducted at a rate of one plot in two with a minimum of 5 tests across the site;
- Sites with fewer than 5 plots testing should be conducted in every plot with a minimum of 3 tests across the site.

## 6.4 Sample failure

In the event that a sample fails to meet the specified criteria for any parameter the Environmental Consultant should be contacted for advice on the suitability of the materials.

Further testing may be required to provide reassurance that the exceedances are not representative of the soil and to provide clarification whether the soil is suitable for importation and/or proposed use.

## 6.5 Timing

Sampling and analysis undertaken by a manufactured topsoil supplier shall be no earlier than two weeks from the date of import, any results which are older than two weeks will be deemed not to be representative of the soils to be imported and rejected. Results showing consistency of batching may be requested to demonstrate consistency of the physical, chemical and nutritional composition of the material.

Imported soil suppliers and groundwork contractors are required to take reasonably practicable measures to ensure that compliance with this Specification does not hinder formal completion of individual plots or developments.

## **6.6 General Compliance**

All analytical suites shall correspond with the chemical, nutritional and physical compliance criteria (as set out in Tables 1 to 4). The soil supplier shall ensure that the analytical limits of detection are equal or lower than the compliance values presented within this Specification. Where either testing suites or limits of detection do not comply with this Specification, the entire set of results shall be rejected.