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REPORT ON A PHASE 2 GROUND INVESTIGATION AND CONTAMINATION ASSESSMENT FOR A PROPOSED CARE HOME DEVELOPMENT AT HIGHFIELDS, WEST HILL, EAST GRINSTEAD, RH19 4DL

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A PROPOSED CARE HOME DEVELOPMENT AT HIGHFIELDS, WEST HILL,
EAST GRINSTEAD, RH19 4DL**

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1. INTRODUCTION AND OBJECTIVES

- 1.1 This report has been prepared on instructions given by LPS Construction Consultants on behalf of the Client, EQ Care East Grinstead Limited (46 Curzon Street, London, W1J 7UH).
- 1.2 The site is located on the south eastern side of a road known as West Hill to the west of the centre of East Grinstead, Surrey as shown on Figure 1, Appendix (i). As shown on Figure 2, Appendix (i), the site is irregular in shape comprising the existing house and grounds of Highfields. The site is at and around National Grid Reference 538995 137807 and covers an area of around 1.24ha (Reference 1).
- 1.3 The site has been the subject of a Phase 1 Desk Study, UXO risk assessment and preliminary investigation as referenced below.
- Brownfield Solutions Limited Phase 1 Geo-Environmental Assessment Report Highfields, East Grinstead. Report Reference NA/C5238/11569 Rev A dated December 2022.
 - Compass Geotechnical Limited Letter Report Highfields, West Hill, East Grinstead, RH19 4DL Report Number 253123L-1.
 - Compass Geotechnical Limited Letter Report on a UXO Assessment, Proposed Care Home, Highfields, West Hill, East Grinstead, RH19 4DL. Report Number 26 3123L-1 UXO. Dated 5th June 2026.
- 1.4 Proposals are to demolish the existing house and redevelop the site with a residential care home with ancillary building, access road, car parking and soft landscaping. A plan showing the proposed layout is presented as Figure 2, Appendix (i).
- 1.5 The aims of the intrusive investigation were to:
- Investigate the ground and groundwater conditions so that suitable methods of design and construction may be adopted for the redevelopment of the site with a care home and ancillary building.
 - Undertake materials property testing and contamination testing of samples recovered from an intrusive investigation.
 - Carry out DCP/CBR tests along the road alignment.
 - Provide comments on the suitability of soakaways for the disposal of surface water.
 - Provide information for the assessment of contamination.
 - Assess the nature, extent and severity of any contamination at the site.
 - Undertake risk assessments.
 - Appraise remedial options if necessary.



- Carry out Waste Acceptance Criteria (WAC) tests for the classification of materials for disposal off site.
- Present an interpretative report on the findings.

1.6 The investigation, assessment and reporting has been carried out in general accordance with the following:

- BS 5930:2015+A1:2020. Code of Practice for Ground Investigations.
- BS EN ISO 14688-1:2018. Geotechnical investigation and testing – Identification and classification of a soil – Part 1: Identification and description.
- BS EN ISO 14688-2:2018. Geotechnical investigation and testing – Identification and classification of a soil – Part 2: Principles for a classification.
- BS EN ISO 22476-2:2005+A1:2011. Geotechnical investigation and testing – Field testing – Part 2: Dynamic Probing.
- BS EN ISO 22476-3:2005+A1:2011. Geotechnical investigation and testing – Field testing – Part 3: Standard Penetration Test.
- BS EN ISO 14688-1:2018. Geotechnical investigation and testing – Identification and classification of soil – Part 1: Identification and description.
- BS EN ISO 14688-2:2018. Geotechnical investigation and testing – Identification and classification of soil – Part 2: Principles for a classification.
- BS EN ISO 22475-1:2021. Geotechnical investigation and testing – Sampling methods and groundwater measurements – Part 1: Technical principles for execution.
- BS 1377-9:1990. Methods for test for soils for civil engineering purposes – Part 9 In-situ tests.
- BS EN 1997-1:2004+A1:2013 Eurocode 7: Geotechnical design – Part 1: General Rules.
- NA+A2:2022 to BS EN 1997-1:2004+A1:2013. UK National Annex to Eurocode 7: Geotechnical design – Part 1: General Rules.
- BS EN 1997-2:2007. Eurocode 7: Geotechnical design – Part 2: Ground investigation and testing.
- NA to BS EN 1997-2:2007. UK National Annex to Eurocode 7: Geotechnical design – Part 2: Ground investigation and testing.
- BS 10175:2011+A2:2017. Investigation of Potentially Contaminated Sites – Code of Practice.
- BS 8576:2013 Guidance on Investigations for ground gases – Permanent gases and Volatile Organic Compounds (VOCs).
- BS 8485:2015 + A1:2109. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.
- Environment Agency 2021 Land Contamination Risk Management.



2. FINDINGS OF THE DESK STUDY

- 2.1 The following is based on information contained in the reports of Section 1.3.
- 2.2 The historical information obtained as part of the desk study indicates that the site was undeveloped and comprised open fields until the late 1890 when a large house and other structures were built in the central eastern section of the site, with gardens and a wooded area along the north western boundary. These buildings were demolished and replaced with the current house in around 2003. The surrounding land generally comprised open fields from 1873 which were subsequently developed for houses from around 1910 onwards. A cricket pitch and pavilion are marked to the east of the site along with a cemetery to the north on the opposite side of West Hill. A small quarry is marked a short distance to the north of the site on the opposite side of West Hill on the map editions of 1873 and 1899 after which the quarry is no longer marked and is subsequently developed as part of the grounds of a house. An electricity substation is noted adjacent to the northern boundary of the site from around 1975 onwards.
- 2.3 No site walkover survey was undertaken by Brownfield Solutions Limited as part of the Phase 1 Desk Study.
- 2.4 Geological information (e.g. Reference 2) indicates that the site is underlain by solid deposits of the Ardingly Sandstone Member (part of the Tunbridge Wells Sand Formation). No superficial deposits are shown at the site. Three preliminary shallow boreholes (WS1 -WS3) drilled at the site in November 2024 confirmed the presence of relatively shallow made ground over clays, silts and siltstones possibly representing the Ardingly Sandstone Member of the Tunbridge Wells Sand Formation. The results of this preliminary investigation are taken into account in this report (see Section 1.3).
- 2.5 The desk study indicates that the Ardingly Sandstone Member is classified as a Secondary A Aquifer. The site is not within a Groundwater Source Protection Zone (SPZ).
- 2.6 The available map information indicates that that the closest surface water course is an unnamed stream around 84m to the north of the site.
- 2.7 No landfill sites, waste transfer stations or similar operations are documented within influencing distance of the site.
- 2.8 The desk study has highlighted some potential risks to end users, construction workers, buildings and services and the groundwater and the surface water environment, primarily associated with possible made ground associated with previous development on site and potential off site sources associated with the electricity sub station, the quarry and the cemetery to the north. Risks were assessed as moderate/low or low and the Phase 1 Desk Study recommended an intrusive investigation including some check contamination testing along with further



consideration of the ground gas regime and an asbestos survey of the existing building prior to demolition.

- 2.9 The site is not in an area where radon protection measures are deemed necessary (Reference 3).

3. SITE RECONNAISSANCE

- 3.1 As shown on Figure 2, Appendix (i), the site comprises the existing house and grounds of Highfields which is accessed via a shared driveway leading south from West Hill into the northern end of the site. The driveway opens out into a gravelled parking area immediately to the north of the house (Highfield) with a detached garage in the northern corner. A paved patio lies to the south of the house with an outdoor swimming pool to the west of the house. Extensive landscaped grounds extend around the east and south of the house with trees further to the eastern boundary and to the west adjacent to West Hill.

The site sits in an elevated location above West Hill. The area around the house is relatively flat and level at an elevation of approximately 122 mAOD. To the east the ground rises up to the eastern boundary at around 124.5 mAOD whilst to the south west the ground level falls across the lawn to around 117m AOD before continuing through woodland to West Hill on the western boundary at an elevation of around 107m AOD. The area to be redeveloped comprises the central section of the site currently occupied by the house, parking area, garage and lawned areas. Proposals include the creation of a new entrance from West Hill towards the western corner of the site through the wooded section of the site.

- 3.2 The topography of the general area slopes down from north east to south west.
- 3.3 No evidence of significant contamination was uncovered during the site walkover. The electricity substation noted on the historical maps is still present on West Hill adjacent to the northern boundary of the site but this is at a significantly lower elevation than the main part of the site itself. No evidence of the former quarry was found and this now lies within the grounds of a house on the opposite side of West Hill with other houses immediately to the west. The former quarry is at an elevation of 117m AOD approximately 5m below the main part of the site where any structures are to be formed. It is considered unlikely that any ground gases generated within the former quarry would affect the proposed development given the location of the former quarry on the opposite side of West Hill and the surrounding area has been developed for housing. Clarification over the use of gas protection measures in the area should be sought from the Local Authority. Similarly, the cemetery to the north of the site, again on the opposite side of West Hill, is only likely to constitute a point source of ground gases with very low potential for generation rates and as such is highly unlikely to affect the proposed development.



- 3.4 From a recent ecological survey it is understood that there are a number of badger setts present on site particularly in the wooded areas around the periphery with the main sett towards the southern corner.

4. SITE WORK

- 4.1 The badger setts on site limited the location and number of exploratory holes which could be undertaken as part of the current investigation as all positions had to be at least 30m away from any sett entrance. All of the exploratory hole locations were approved by the ecologist in attendance. Due to this restriction, several of the proposed exploratory hole locations could not be undertaken at this time or were relocated from their proposed positions.
- 4.2 Four exploratory boreholes (WSA to WSD) were undertaken at the site by windowless sampling techniques to a maximum depth of 8.0m. Continuous samples were recovered from the full depth of all the window sample holes and standard penetration tests (SPTs) were undertaken at regular intervals in all locations. The continuous samples were logged and sub-sampled by an experienced geologist.
- 4.3 A series of three trial pits (TP1 to TP3) were also dug by tracked mini excavator to depths between 1.60m and 2.60m below ground level to examine the nature of the ground in bulk excavation and to recover samples for geotechnical and contamination testing.
- 4.4 Samples for contamination testing from the exploratory holes were sealed into amber glass jars to prevent sample deterioration and placed in cool boxes for transport to the laboratory as quickly as possible. All contamination samples were taken in appropriately sized containers and where necessary headspace and storage times were minimized. Representative small, disturbed samples were also recovered from the strata encountered.
- 4.5 The window sample holes were drilled and the trial pits excavated on 28th April 2026. It was also proposed to carry out a series of DCP tests along the alignment of the proposed road and car parking areas at the same time, however many of these positions were within the exclusion zone around the badger setts and it is now proposed to carry out these tests at a later date. Further boreholes may also be necessary in areas where access was not possible at this stage.
- 4.6 The investigation and sampling strategies were to obtain representative samples of any fill, natural deposits and groundwater, where encountered, and to recover materials for soil property and contamination analysis and appraisal. Laboratory testing was undertaken to determine levels and distribution of contaminants and material properties. The investigation was in general accordance with the documents of Section 1.6.



- 4.7 All of the samples were transported to the laboratory for detailed examination and selected samples were programmed for testing.
- 4.8 Details of the strata encountered in the exploratory holes are given on the windowless sample hole logs presented in Appendix (ii) and the trial pit logs of Appendix (iii) and the positions of the holes are shown on Figure 2, Appendix (i).

5. LABORATORY WORK

- 5.1 Detailed below in Table 5.1 is the material property testing undertaken on the natural soils encountered as part of this investigation:

Table 5.1 Summary of Material Property Tests

Material Property Test	Number of Tests Natural Soils
Natural Moisture Contents	7
Liquid and Plastic Limits	7
Wet sieve preparation	5
Particle Size Distribution (wet sieve)	2
Soluble Sulphate Content	6
pH Value	6

- 5.2 The following testing was undertaken on samples of the made ground and natural soils encountered to determine possible contamination at the site:

Table 5.2 Summary of Laboratory Contamination Tests

Contamination Test	Number of Tests Made Ground	Number of Tests Natural Soils
Suite of Heavy Metals	3	4
pH Value	3	4
Speciated PAH	3	4
TPH Banded (C8-C40)	3	4
Asbestos Screen	2	1
Waste Acceptance Criteria (WAC)	2	1

- 5.3 The material property test results are included as Appendix (iv) and the contamination and WAC test results are presented in Appendix (v).
- 5.4 The laboratory testing was undertaken during the period 30th April to 29th May 2026.
- 5.5 The testing was undertaken at UKAS and MCERTS accredited laboratories.



6. ENGINEERING ASSESSMENT AND RECOMMENDATIONS

6.1 Soil Profile

In all of the exploratory hole positions the surface conditions comprised turf over topsoil present to depths between 0.09 and 0.22m bgl.

Beneath the topsoil in TP1 in the north of the site extensive made ground was encountered comprising masonry, concrete and brick rubble infilled with a clayey sand matrix. Due to the granular nature of these materials the pit sides were unstable and due to continual collapse the trial pit was terminated at 1.6m bgl.

Below the topsoil in WSB and WSD of the current investigation and in WS1 to WS3 of the initial investigation, localized made ground was encountered comprising clays and silts with rare inclusions of brick and slate. The made ground extended to around 0.47 to 0.89m bgl beneath which locally in WSB, WSD and WS2 an old subsoil layer was noted extending to 0.66 to 1.19m bgl. It is thought that the made ground and subsoil layer is associated with the previous and current buildings at the site and landscaping of the surrounding grounds.

Beneath the made ground and/or topsoil were natural deposits thought to represent the Ardingly Sandstone Member which is part of the Tunbridge Wells Sand Formation, which is underlain by the Wadhurst Clay Formation. Information from the British Geological Survey suggests that the Tunbridge Wells Sand ... *comprises: (i) A lower unit of thinly interbedded silty fine-grained sandstones and common, though subordinate, siltstone and rare beds of clay or silty clay; (ii) An upper unit of largely massive or thickly bedded, fine- and medium-grained sandstone (Ardingly Sandstone Member of the Tunbridge Wells Sand Formation).* The geological map suggests that the Ardingly Sandstone caps the high ground with the lower unit of the Tunbridge Wells Sand Formation outcropping a short distance down slope to the south west.

In the exploratory holes, the upper horizons generally comprise a stiff or very stiff silty clay with subordinate horizons of silt which extends to depths between 1.48 and 3.0m bgl. A summary of the geotechnical parameters for the silty clays is presented in Table 6.1 below.



Table 6.1 Geotechnical Parameters for Cohesive Tunbridge Wells Sand Formation

Parameter (units)	Results	Classification	Comments
Undrained Shear Strength C_u (kPa) Cohesive deposits	Typically 100 - 150 based on SPT	High to very high strength	General increase in strength with depth
SPT N Value Cohesive deposits	20 – 49		General increase in strength with depth. Refusal in SPT at 1.0m bgl in WSC.
Water Content (%)	10.6 – 23.5		
Liquid Limit (%)	24 - 48	CL - CI Soils Low and Medium Shrinkability. Locally non-shrinkable.	
Plastic Limit (%)	13 – 20		
Plasticity Index (%)	10 – 30		
Modified Plasticity Index (%)	9 – 21		
Soluble Sulphate Content SO_4 (g/l)	0.02 – 0.05	AC-2z	
pH Value	5.5 – 6.9		

Below the clays described above were silts and siltstone with subordinate horizons of clay which are thought to represent the lower part of the Tunbridge Wells Sand Formation and were proved to the full depth of the investigation (6.45m). The siltstones were reasonably competent locally and described as extremely weak siltstone or medium dense to dense silts. A summary of the geotechnical parameters for the silts and siltstones is given in Table 6.2 below.

Table 6.2 Geotechnical Parameters for Silts and Siltstones Tunbridge Wells Sand Formation

Parameter (units)	Results	Classification	Comments
SPT N Value Granular deposits	21 - 60 generally 4 – 12 WSA WSB possible voided/very weak ground at depth	Medium dense to very dense	

In WSA located towards the southern corner of the site the SPT tests indicated loose and very loose silts at 4 and 5m bgl with reported N values of 8 and 4. In WSB in the west of the site extremely loose and possibly voided ground was encountered below around 4m bgl extending to approximately 8m bgl beneath a horizon of reasonably competent siltstone. The presence of very weak or potentially voided ground is of concern and further investigation will be required. Research suggests that gulls and fissures can form in the sandstone and siltstones of the Tunbridge Wells Sand Formation where, in the geological past, joints and fissures have opened up associated



with downhill movements on sloping ground which could account for the observations on site. Towards the base of the Tunbridge Wells Sand Formation close to the junction with the underlying Wadhurst Clay (not proven in the investigation), natural springs can form with subsequent erosion of the overlying sand. It is also important to note that WSB is close to the existing swimming pool and if the swimming pool has been leaking this may have led to erosion of the deposits at depth.

6.2 Ground Contamination Observations

No visual or olfactory evidence of significant contamination was noted during the investigation. Although the presence of significant volumes of made ground locally in TP1 in the north of the site is potentially of concern.

6.3 Groundwater Conditions

No groundwater seepages were encountered during the drilling or trial pitting operations.

It should be borne in mind that groundwater conditions can vary with seasonal and other effects and thus at times may be at variance with the conditions noted at the time of the site work.

6.4 Excavations

Random falls and collapse of vertical excavation faces can be expected particularly in the made ground (TP1) and in the natural materials dependent on the depth of excavation, the length of time excavations stand open, and the incidence of any groundwater entries.

Consideration should be given to providing at least intermittent to close support in deepened vertical sided excavations where personnel are required to enter. The adequacy of all excavation support should be continually inspected by experienced personnel.

6.5 Structural Foundations

It is understood that the development is to comprise a care house and ancillary building of traditional construction. Foundation recommendations for buildings take account of the following:-

- Ultimate Limit State (ULS) (stability)
- Serviceability Limit State (SLS) (settlements and ground movements)

The ULS assessment of stability examines the bearing resistance of the ground. The SLS assessment limits the settlements to assessed acceptable limits. The SLS also requires that suitable foundation depths and construction are adopted to cater for the potential ground movements due to the presence of trees and other major vegetation (including future planting) in close proximity to the proposed building.



The near surface deposits comprise variable, mainly cohesive deposits of the Tunbridge Wells Sand Formation which are best described as stiff at around 1.0m to 2.0m depth. With depth these deposits give way to silts and siltstones. Some of the silts and siltstones are reasonably competent but localized weaker and possibly voided ground has been found (WSA and WSB) which is of concern and requires further investigation.

Depending on the findings of the additional investigation works, strip or trench fill foundations may prove acceptable for the proposed development depending on the proposed loadings and the findings of further investigation work. At this stage it is difficult to give firm recommendations for foundations for the new structures, as the stiff clays - though appearing to provide a possible sound bearing stratum - may be underlain at depth by ground that is experiencing erosion features that could influence overlying materials and construction. Further and careful consideration will need to be given to the choice of foundations taking account of the weaker/very loose/voided ground (WSA and WSB) as well as the badger setts and the presence of trees locally.

Following further investigation it may be necessary to delineate, by drilling or probing, the location and extent of any potential subsidence zones beneath the proposed structure. Within such zones and depending on their extent it may be possible to adopt a raft foundation capable of spanning loss of support with construction joints between different sections of the building.

There are also concerns over the extent of the badger setts with associated tunnels which are known to be present, particularly in the south of the site and are thought to extend below the footprint of the proposed ancillary building. Demolition and clearance of the existing house and swimming pool on site is also likely to disturb the near surface soils. All existing foundations should be broken out away from new construction which may affect the choice of foundation solutions.

There are a number of trees at the site and particularly around the perimeter of the site. Consideration may need to be given to deepening of foundations within influencing distance of the trees in accordance with NHBC Standards (Reference 6). It should also be noted that some of the trees are at a lower elevation than the proposed foundations and this may influence the depth to which foundations should be taken

Given the presence of weaker soils locally in the south of the site, it may be appropriate to consider a piled foundation. In order to provide a cost-effective pile design, further investigation should be undertaken to obtain parameters for pile design and to confirm the strata below 6.0m depth. Further investigation will be required around the footprint of the proposed structure particularly as the extent of this investigation was limited to protect the badgers.



6.6 Ground Floor Slabs

Where the surrounding trees influence the structures ground floor slabs should be constructed as suspended over a void in accordance with the recommendations of Reference 6. Consideration may have to be given to suspended floors where there has been disturbance of the ground either by badger setts, demolition of the existing house or deep fill, or where piled foundations prove necessary due to risks associated with ground settlement due to erosion problems.

6.7 Chemical Attack on Concrete

Laboratory determinations of soluble sulphate content have been undertaken on samples of the natural soils present at the site. Reported concentrations were between 0.02 – 0.05g/l SO₄ in association with acidic pH values.

In accordance with BRE Special Digest 1 (Reference 7) the site has been classed as 'natural ground' the groundwater regime is considered 'mobile' as some permeable strata are present on site.

Comparison of the characteristic sulphate contents for the soil (based on the mean of the highest two results) and pH concentrations with Table C1 of Reference 7 suggests the ACEC class for the site is AC-2z. If piled foundations are to be considered the sulphate concentrations of the soils at depth should be determined.

6.8 Road Pavement Design

Recommendations for road pavement design will be provided once the proposed DCP tests have been carried out.

6.9 Soakaways for Disposal of Surface Water

As discussed in Section 6.1, the deposits at the site are highly variable and comprise mainly cohesive strata near surface with some silts and siltstones at depth. The natural clays and silts would not be considered suitable for soakaways as they are relatively impermeable and would not provide sufficient infiltration. In addition, these deposits are readily erodible which can lead to settlement problems and for these reasons soakaways within the clays and silts should be avoided which precludes the use of soakaways over the majority of the site.

It is considered that soakaways for the disposal of surface water would not prove particularly effective at the site and consideration should be given to an alternative method of water disposal.



7. CONTAMINATION ASSESSMENT

7.1 Assessing Contamination

The processes for assessing contamination should be based on the protection of human health, building materials and the environment using the SOURCE-PATHWAY-RECEPTOR concept. The sources, pathways and receptors relevant to the site are identified using a conceptual site model as outlined in Guidance for the Safe Development of Housing on Land Affected by Contamination (Reference 8). Reference is also made to the procedures in the Environment Agency Land Contamination Risk Management (Reference 9), BS 10175:2011+A2:2017 (Reference 4) and the DEFRA Contaminated Land Statutory Guidance (Reference 40). Reference should be made to the original desk study report for full details of the conceptual model.

7.2 Discussion of Results

The results of the contamination testing are discussed in the following sections. Laboratory contamination testing has been carried out on samples of the made ground and natural soils encountered in the investigation as a check on conditions. The soils have been tested for a variety of contaminants and comments are made on the spatial distribution of the contaminants along with an indication of whether the results are elevated in relation to guideline values. In this instance, as an initial appraisal, the guideline values used are the critical concentrations for a residential end use without consumption of home grown vegetables. Reference should be made to Section 7.3 for a detailed explanation of critical concentrations.

7.2.1 Made Ground

A variable thickness of made ground is present locally at the site. The majority of the made ground does not contain elevated levels of contaminants however one elevated concentration of arsenic was reported as indicated in Table 7.1 below.

Table 7.1 Elevated Results Made Ground

Determinand	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Critical Concentration (mg/kg)	Number of Samples Exceeding Critical Concentration
Arsenic	8.6	63	40	1/3

The full test results for the made ground are discussed and presented in section 7.3.1.

7.2.2 Natural Soils

Testing for a range of contaminants has been carried out in the natural soils at the site but no elevated concentrations of contaminants was reported.

The full test results for the natural soils are discussed and presented in section 7.3.2.



7.3 Risk Estimation

Part IIa of the Environmental Protection Act 1990 provides the main regulatory regime for the identification and remediation of contaminated land. However, there is no single methodology covering all aspects of the assessment of potentially contaminated land and groundwater. Therefore, the approach adopted for this investigation is made up of a number of procedures designed to protect human health, building materials and the environment. All of the procedures are based on a risk assessment methodology centred on the identification and analysis of source-pathway-receptor linkages and take account of the procedures outlined in Guidance for the Safe Development of Housing on Land Affected by Contamination (Reference 8). Reference is also made to the procedures in Environment Agency Land Contamination Risk Management (Reference 9), and the DEFRA Contaminated Land Statutory Guidance (Reference 40). The sources-pathways and receptors relevant to the site were identified in the desk study along with details of the initial conceptual site model.

To assess potential risks, samples from the site have been analysed for a range of general contaminants based on assessed recent and previous uses. Consideration has also been given to the requirements of Reference 39 for the selection of water supply pipes. However, it should be noted that the desk study and assessments have not highlighted potential sources for some of the contaminants contained in Reference 39. Testing has been carried out on samples from natural soils. In accordance with current practice (Reference 8) where sufficient results are available they have been statistically analysed. Where only a few results are available they have been compared directly with published critical concentrations. The approach is based on the methodology set out in the CL:AIRE document Professional Guidance on Comparing Soil Contamination Data with a Critical Concentration (Reference 10). The guidance allows examination of the robustness of the data set, the identification of statistical outliers and the use of appropriate statistical techniques based on the distribution of the data set (whether normal or non-normal). The guidance can be used to determine:

- Whether land is suitable for a new use under the land use planning system (Planning Scenario).
- Or
- Whether land falls within the scope of Part 2A of the Environment Protection Act 1990 (Part 2A Scenario).

In this case the Planning Scenario is appropriate as the site is to be developed.

The selection of appropriate critical concentrations of contaminants for the assessment of risks to human health is based on the CLEA guidance (References 11 to 13). This was updated in autumn 2008 and replaces all previous guidance. This most recent guidance allows derivation of Soil Guideline Values (SGVs) based on: generic assumptions about the fate and transport of chemicals in the environment; a generic conceptual model for site conditions and human behaviour to estimate exposure to soil contaminants for those living, working and/or playing on contaminated sites over



a long period of time; and Health Criteria Values that represent a tolerable or minimal risk to health from chronic exposure.

The Environment Agency published SGVs for eleven contaminants (References 14 to 35), including mercury and nickel which have now been withdrawn, and was proposing to publish further SGVs during 2010 but has not done so to date. The former guidelines (Reference 36), the recent DEFRA Category 4 Screening Levels (Reference 37) and the recent LQM/CIEH S4ULs (Reference 38) have been used as initial screening values in the following assessments where no new SGVs have been published. The LQM/CIEH Suitable for Use Levels (S4ULs) also include criteria for the eleven contaminants covered by the SGVs but take into account more recent research on contamination. Site Specific Assessment Criteria (SSAC) and Generic Assessment Criteria (GACs) for individual contaminants can be derived using CLEA v1.07.1.

The published criteria relate to standard land uses for residential end use (both with and without uptake of vegetables), allotments, commercial/industrial use, and public open space including amenity areas within residential developments and public parks. The residential end use criteria are protective of the health of young children (0 to 6 years) and assume daily exposure to contaminants over a six year period. The commercial/industrial use relates to adults and is for exposure durations based on a standard working week. The proposed development is for a residential end use (care home) with landscaped areas rather than private gardens, however as visitors to the care home may include young children the most stringent guideline values (residential end use without consumption of homegrown produce) have been used in the following assessments as they are protective of the health of children who would be the most sensitive receptors.

7.3.1 Human Health Risk Assessment – Made Ground

The assessment of possible risks to human health from the soils at the site is based on the 'suitability for use' as described in Section 7.3. Table 7.2 below summarises the outcome of the comparison of the results for heavy metals from the made ground soils. As two samples have been analysed the results have been compared directly with the critical concentrations. The critical concentrations relate to a residential end use without uptake of homegrown produce.



Table 7.2 Comparison of Data for Metals – Made Ground

Determinand	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Critical Concentration (mg/kg)
Arsenic	8.6	63	40
Cadmium	< 0.2	0.3	85
Chromium VI	< 1.8	< 1.8	6
Copper	8	20	7100
Lead	15	250	310
Mercury	< 0.3	0.3	1.2
Nickel	8	8.9	180
Selenium	< 1.0	< 1.0	430
Zinc	37	100	40000
pH value	6.6	9.4	

Levels highlighted in bold are elevated

The results indicate one elevated concentration of arsenic which may pose risks to end users. The reported results for arsenic reflect the total concentration of arsenic in the sample which may be made up of different forms, compounds or valency of arsenic with inorganic forms of arsenic being the most toxic to humans. Whilst only one out of three results for arsenic is elevated and this may represent a localized hot-spot, consideration could be given to further sampling and analysis including PBet testing for bioaccessibility which mimics the adsorption of arsenic by the human gut.

Three samples of the made ground were screened for PAHs and the results are summarised in Table 7.3 below.

Table 7.3 Comparison of Data for PAHs – Made Ground

Determinand	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Critical Concentration (mg/kg)
Naphthalene	< 0.05	< 0.05	2.3
Acenaphthylene	< 0.05	0.09	2900
Acenaphthene	< 0.05	< 0.05	31000
Fluorene	< 0.05	< 0.05	2800
Phenanthrene	< 0.05	1	1300
Anthracene	< 0.05	0.28	31000
Fluoranthene	0.09	2.7	1500
Pyrene	0.09	2.2	3700
Benzo(a)Anthracene	0.05	1.2	11
Chrysene	0.06	1.2	30
Benzo(b)fluoranthene	0.06	1.4	3.9
Benzo(k)fluoranthene	< 0.05	0.68	110



Determinand	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Critical Concentration (mg/kg)
Benzo(a)Pyrene	< 0.05	1.2	3.2
Indeno(123-cd)Pyrene	0.07	0.63	45
Dibenzo(ah)Anthracene	< 0.05	0.11	0.31
Benzo(ghi)Perylene	0.07	0.73	360

The results for the PAHs indicate only very low concentrations of the individual congeners which do not suggest risks to end users.

Three samples of the made ground were screened for TPHs using banded analysis. The results are detailed in Table 7.4 below along with the relevant critical concentrations assuming worst case conditions of a soil organic matter content of 1%.

Table 7.4 Comparison of Data for TPHs – Made Ground

Determinand	TP1 0.10-1.50m (mg/kg)	WSB 0.15-1.00m (mg/kg)	WSD 0.20-0.40m (mg/kg)	Critical Concentration (mg/kg)
TPH (>EC8 - EC10)	< 0.02	< 0.02	< 0.02	27
TPH (>EC10 - EC12)	< 2.0	< 2.0	< 2.0	130
TPH (>EC12 - EC16)	< 4.0	< 4.0	< 4.0	1100
TPH (>EC16 - EC21)	< 10	< 10	< 10	1900
TPH (>EC21 - EC35)	15	< 10	< 10	1900
TPH (>EC35 - EC40)	< 10	< 10	< 10	1900
TPH Total >EC8 - EC40	21	< 10	< 10	-
Hazard Index	0.04	0.04	0.04	-

The results from the made ground indicate the presence of some very low levels of hydrocarbons in the sample from TP1 0.1-1.5m bgl. The reported concentrations are not of particular concern and are not thought to indicate significant contamination.

In line with good practice, consideration has been given to possible cumulative effects with calculation of the Hazard Index (HI) (Reference 41). As the HI is less than one in the sample from WS1 0.1-1.5m depth there are no potential cumulative effects.

Two samples of made ground were screened for asbestos but none was detected.

7.3.2 Human Health Risk Assessment – Natural Soils

The assessment of possible risks to human health from the soils at the site is based on the 'suitability for use' as described in Section 7.3. Table 7.5 below summarises the outcome of the comparison of the results for heavy metals from the natural soils. The results have been compared directly with the critical concentrations. The critical concentrations relate to a residential end use without uptake of homegrown produce.



Table 7.5 Comparison of Data for Metals – Natural Soils

Determinand	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Critical Concentration (mg/kg)
Arsenic	3.3	28	40
Cadmium	< 0.2	< 0.2	85
Chromium (VI)	< 1.8	< 1.8	6
Copper	7.3	20	7100
Lead	7	84	310
Mercury	< 0.3	1.1	1.2
Nickel	3.9	8	180
Selenium	< 1.0	< 1.0	430
Zinc	21	65	40000
pH	6.1	8.3	

The results do not suggest any elevated concentrations of heavy metals in the samples tested.

Thirteen samples of the natural soils were screened for PAHs and the results are summarised in Table 7.6 below.

Table 7.6 Comparison of Data for PAHs – Natural Soils

Determinand	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Critical Concentration (mg/kg)
Naphthalene	< 0.05	< 0.05	2.3
Acenaphthylene	< 0.05	< 0.05	2900
Acenaphthene	< 0.05	< 0.05	31000
Fluorene	< 0.05	< 0.05	2800
Phenanthrene	< 0.05	0.36	1300
Anthracene	< 0.05	0.05	31000
Fluoranthene	< 0.05	1.4	1500
Pyrene	< 0.05	1.2	3700
Benzo[a]anthracene	< 0.05	0.73	11
Chrysene	< 0.05	0.81	30
Benzo[b]fluoranthene	< 0.05	1	3.9
Benzo[k]fluoranthene	< 0.05	0.49	110
Benzo[a]pyrene	< 0.05	0.79	3.2
Indeno(1,2,3-c,d)Pyrene	< 0.05	0.45	45
Dibenz(a,h)Anthracene	< 0.05	0.12	0.31
Benzo[g,h,i]perylene	< 0.05	0.5	360



The results for the PAHs are below or slightly above the detection limit but none indicate risks to end users.

Four samples have been screened for TPHs using banded analysis, but no significant concentrations were reported.

7.4 Risk Evaluation

The purpose of the risk evaluation is to assess whether there are any unacceptable risks to potential receptors from contamination at the site. The risk evaluation considers individually the receptors and pathways identified in the original conceptual model and represents a further refinement of the model. The updated conceptual model is discussed in Section 7.5. The preliminary contamination testing has not indicated any contamination in the natural soils and thus no risks to end users have been identified. One slightly elevated concentration of arsenic has been reported in the localised made ground in WSB and further assessment is required to determine if this is a localised hot-spot or whether Pb_{et} testing would confirm the nature of the arsenic present.

Table 7.7 Risk Evaluation

Receptor	Risk Evaluation
Site Workers	Risks to site workers are considered to come through direct and indirect contact with contaminated soils either by direct skin contact, inhalation of dust/vapour or ingestion by hand to mouth transfer. In order to minimize risks and in accordance with good practice gloves, boots and overalls should be worn to reduce the risks of skin contact. A high standard of personal hygiene should be maintained on site to reduce risks of hand to mouth transfer.
End Users	Risks to end users usually come from direct contact with the ground, ingestion or inhalation of soil particles/vapour or indirect contact such as ingestion of plants or vegetables grown in contaminated soils. Where the site is to be covered by proposed buildings and other hard cover there is not deemed to be a viable pathway by which end users could come into contact with the underlying soils. However, in garden and soft landscaping areas there is the potential for end users to come into contact with soils. Some further assessment is required to assess the single elevated reported concentration of arsenic in the made ground locally in WSB. Elsewhere at the site no potential risks to end users have been identified and no remedial measures are considered necessary.



Receptor	Risk Evaluation
Building Materials	Guidance provided by Anglian Water (Reference 39) based on UKWIR 10/WM/03/21 Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites suggests extensive testing for a wide range of contaminants however, the desk study has not indicated sources for all of the contaminants. The soil testing has not found any significant concentrations of organic contaminants (PAH and TPH) at the site and barrier pipe is not considered necessary to protect water supplies. However, the results should be forwarded to the water supply company for their comment.
Local Environment	Groundwater resources and surface water can be affected by the migration of contaminants. The site is underlain by a Secondary A Aquifer but is not within a groundwater source protection zone. However, no significant contamination has been identified and thus risks to the Local Environment are considered minimal.

7.5 Updated Conceptual Site Model and Conclusions

The investigation carried out has not identified any significant contamination at the site. Although one elevated level of total arsenic has been reported in the made ground some further assessment is required in this area, particularly if this is in a proposed garden area to assess the level of risk. The remaining results do not suggest the need for widespread remedial measures at the site.

It is assumed that prior to demolition of the current buildings on site that an asbestos survey is carried out by a suitably qualified and experienced contractor to identify any asbestos present and advise on its safe removal and disposal.

The above investigation constitutes a spot check only and more severe or unexpected contamination may be present. If further contamination is uncovered during development works this should be reported immediately so appropriate action may be taken.

**7.6 Disposal of Materials Off-Site**

Classification and Waste Acceptance Criteria (WAC) tests have been carried out on samples of the made ground and natural soils and all the materials have been classified as Non Hazardous Waste - code 17 05 04 in accordance with WM3 1st Edition v1.2.GB October 2021, using Hazwaste Online. The waste classification is presented in Appendix (vi).

Three WAC tests have been undertaken on samples of the made ground and natural soils and these all fall in the inert category. The results should be forwarded to the receiving landfill for their comment and classification.

R. Foord BSc, MSc, MCSM, CGeol, FGS



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The report is based on the ground conditions encountered in the exploratory holes together with the results of field and laboratory testing in the context of the proposed development. Conditions between exploratory holes have been interpolated, however soil conditions are highly variable and may differ from the interpolation. There may be conditions, appertaining to the site, which may not be revealed by the investigation, and which may not be taken into account in the report.

The accuracy of the results reported will depend on the technique of measurement, investigation and test used and these values should not be regarded necessarily as characteristic of the strata as a whole. Where such measurements are critical, the technique of the investigation will need to be reviewed and supplementary investigation undertaken in accordance with the advice of the company where necessary.

The economic viability of the proposal referred to in the report, or of the solutions put forward to any problems encountered, will depend on very many factors in addition to the geotechnical considerations hence its evaluation will be outside the scope of the report.

Where any data supplied by the Client or from other sources, including previous site investigations, have been used it has been assumed that the information is correct. No responsibility can be accepted by Compass Geotechnical Limited for inaccuracies in the data supplied by any other party.

The investigation does not include the identification of Japanese Knotweed. Any such survey should be undertaken by a specialist.



Appendix (i) Figures



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Figure 1	Site Location Plan
Date	June 2026
Not to Scale	



Extract from NJP Consulting Engineers Drawing
Number 11089-500P dated December 2024

Figure 2

Current and Proposed Site Plan

Date

June 2026

Not to Scale



Appendix (ii)

Windowless Sample Hole Logs



Introduction

All sampling and in-situ test methods are carried out in accordance with the relevant British and European standards as referenced below.

Abbreviations Used

Exploratory hole records are presented in graphical format with the use of standard abbreviations as outlined below.

Sampling Method

BH	Borehole
TP	Trial Pit
WS	Windowless Sample Hole
CC	Concrete Cored Hole

Sample Types

D	Disturbed Sample
B	Bulk Sample
ES	Environmental Sample
PID	Sample for total VOC screen
L	Liner Tube Sample
U	Undisturbed Sample
UT	Thin Wall Undisturbed Sample
NR	No Recovery
W	Water Sample
C	Rotary Core

In-Situ Tests

DP	Dynamic Probe Test
CPT	Cone Penetrometer Test
SPT	Standard Penetrometer Test
V	Hand Shear Vane Strength Determination (kPa) – manufacturer's calibration of 1.491 applied to direct reading
V*	Hand Shear Vane Strength Determination (kPa) on excavated block of material

References

BS 5930:2015 + A1:2020 Code of Practice for Ground Investigations

BS 10175:2011+A2:2017 Investigation of Potentially Contaminated Sites – Code of Practice

BS EN ISO 14688-1:2018 Geotechnical Investigation and Testing – Identification and Classification of Soil: Part 1 Identification and description.

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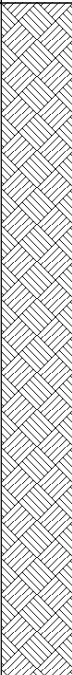
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 Compass Geotechnical 13 Willow Park, Stoke Golding CV13 6EU www.compassgeotechnical.co.uk		Windowless Sample Borehole Log				Project ID 263123		Borehole No. WSA					
Project Title: Highfields, East Grinstead		Location: West Hill, East Grinstead, RH19 4DL		Client: EQ Care East Grinstead Limited		Sheet 1 of 1							
						Scale: 1:50							
						Date Drilled 28/04/2026							
						Rig Crew: GE							
						Logged: RF							
Easting:		Northing:		Level (mAOD):		Checked:							
Samples & In Situ Testing			Strata Details					Groundwater					
Depth (mBGL)	Sample / Test ID	Test Result	Level (mAOD)	Depth (mBGL)	Legend	Strata Description	Depth (mBGL)	Water Strike	Backfill/ Installation				
0.00 - 1.00	L	N=35 (14/9,8,9,9)		0.15		Turf over dark brown silty Topsoil with rare brick fragments(0.15m)	1						
0.20 - 0.30	ES					Dark brown silty CLAY with rare roots to 3mm diameter.(0.23m)							
				0.38		Yellowish brown slightly clayey SILT with rare yellowish brown siltstone fragments of fine angular gravel size.(0.21m)							
				0.59		Yellowish brown slightly sandy silty CLAY.(0.28m)							
0.87 - 1.00	D					Stiff and very stiff pale yellowish brown, white and light grey slightly gravelly slightly sandy silty CLAY with occasional fragments of yellowish brown and light grey fine to coarse angular to sub angular siltstone.(0.40m)							
1.00 - 1.45	SPT(C)	N=44 (21/15,13,9,7)		1.27		Stiff and very stiff yellowish brown mottled pale yellowish brown silty CLAY with occasional locally frequent yellow brown siltstone lithorelicts of fine to coarse angular gravel size.(1.31m)	2						
1.00 - 2.00	L					Becoming increasingly sandy with depth							
						Becoming mottled dark yellowish brown							
1.75 - 2.00	D					Medium dense becoming loose pale yellowish brown, pale grey and white very slightly sandy SILT with yellowish brown extremely weak siltstone lithorelicts of fine to coarse gravel size. Rare tree roots up to 4mm diameter(2.87m)							
2.00 - 2.45	SPT(C)					Pockets of yellowish brown silty clay.							
2.00 - 3.00	L	N=12 (3/3,2,3,4)		2.58			3						
													
													
3.00 - 3.45	SPT(C)												
3.00 - 3.38	B												
3.00 - 4.00	L	N=8 (3/1,2,2,3)					4						
													
													
4.00 - 4.45	SPT(C)												
4.00 - 5.00	L												
		N=4 (1/1,1,1,1)					5						
													
													
5.00 - 5.45	SPT(C)												
													
			5.45		Borehole Completed at 5.450m		6						
							7						
							8						
							9						
							10						
Borehole Diameter		Casing Diameter		Chiselling & Pits				Water Strikes			Observations		
Depth (m)	Diameter	Depth (m)	Diameter	Depth Top	To (m)	Duration	Remarks	Strike at (m)	Casing at (m)	Sealed at (m)	Time Mins	Rose to (m)	Remarks
5.45	115	1.00	115										No groundwater seepages encountered
Installation				Remarks:									
Top (m)	Base (m)	Type	Dia (mm)										

 Compass Geotechnical 13 Willow Park, Stoke Golding CV13 6EU www.compassgeotechnical.co.uk		Windowless Sample Borehole Log				Project ID 263123		Borehole No. WSB	
Project Title: Highfields, East Grinstead		Location: West Hill, East Grinstead, RH19 4DL				Client: EQ Care East Grinstead Limited		Sheet 1 of 1	
Easting:		Northing:				Level (mAOD):		Scale: 1:50	
Samples & In Situ Testing		Level (mAOD)		Strata Details		Groundwater			
Depth (mBGL)	Sample / Test ID	Test Result	Level (mAOD)	Depth (mBGL)	Legend	Strata Description	Depth (mBGL)	Water Strike	Backfill/ Installation
0.00 - 1.00	L			0.15		Turf over dark brown silty Topsoil.(0.15m)			
0.15 - 1.00	ES					MADE GROUND: Yellowish brown and grey slightly sandy slightly silty clay with rare black carbonaceous matter and pockets of pale yellowish brown siltstone lithorelicts.(0.52m)			
				0.67		Brown silty clayey subsoil with rare brick fragments.(0.30m)			
1.00 - 1.45	SPT(C)	N=20 (2/1,4,8,7)		0.97		Medium dense yellowish slightly gravelly clayey SILT with rare weak siltstone fragments.(0.65m)	1		
1.00 - 1.50	D								
1.00 - 2.00	L								
1.70 - 2.00	D			1.62		Stiff yellowish brown occasionally mottled dark yellowish brown and rarely grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium sub angular to sub rounded siltstone and fine sandstone.(1.38m)			
2.00 - 2.45	SPT(C)	N=38 (12/10,9,10,9)				Occasional pockets of yellowish brown and grey silt and occasional dark orange brown ironstained partings.	2		
2.00 - 3.00	L					Increasing proportion of lithorelicts with depth			
2.70 - 3.00	D					Yellow brown and dark orange brown ferruginous SILTSTONE recovered as lithorelicts of fine to coarse gravel size in a yellowish brown and dark yellowish brown silty slightly clayey sand matrix.(0.50m)			
3.00 - 3.45	SPT(C)	N=26 (11/6,5,6,9)		3.00		Extremely strong pale grey occasionally stained yellowish brown SILTSTONE recovered as fine to coarse angular gravel sized fragments infilled with pale grey silty fine sand.(0.50m)	3		
3.00 - 3.60	L					Very weak ground - possibly voided - no sample recovery.(4.00m)			
3.60 - 4.05	SPT(C)	N=21 (13/7,5,5,4)		3.50					
3.60 - 4.00	L			4.00			4		
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									

 Compass Geotechnical 13 Willow Park, Stoke Golding CV13 6EU www.compassgeotechnical.co.uk		Windowless Sample Borehole Log				Project ID 263123		Borehole No. WSC					
Project Title: Highfields, East Grinstead		Location: West Hill, East Grinstead, RH19 4DL		Client: EQ Care East Grinstead Limited		Sheet 1 of 1							
						Scale: 1:50							
						Date Drilled 28/04/2026							
						Rig Crew: GE							
						Logged: RF							
Easting:		Northing:		Level (mAOD):		Checked:							
Samples & In Situ Testing			Strata Details					Groundwater					
Depth (mBGL)	Sample / Test ID	Test Result	Level (mAOD)	Depth (mBGL)	Legend	Strata Description	Depth (mBGL)	Water Strike	Backfill/ Installation				
0.00 - 1.00	L	N=69 (28/19,24,26,0 for 0mm)		0.14		Turf over dark brown silty Topsoil.(0.14m)	1						
0.20 - 0.70	ES					Dense yellowish brown mottled pale grey and rarely dark yellowish brown slightly clayey fine sandy SILT with rare siltstone lithorelicts of fine to coarse gravel size.(0.56m)							
0.70 - 1.00	D			0.70		Light grey slightly gravelly slightly silty CLAY. Gravel is pale brown angular siltstone lithorelicts of coarse gravel size.(0.75m)							
1.00 - 1.38	SPT(C)					Refusal in SPT test at 1.0m bgl - no further progress possible.							
				1.45		Borehole Completed at 1.450m							
							2						
							3						
							4						
							5						
							6						
							7						
							8						
							9						
							10						
Borehole Diameter		Casing Diameter		Chiselling & Pits				Water Strikes		Observations			
Depth (m)	Diameter	Depth (m)	Diameter	Depth Top	To (m)	Duration	Remarks	Strike at (m)	Casing at (m)	Sealed at (m)	Time Mins	Rose to (m)	Remarks
1.45	115	1.00	115										No groundwater seepages encountered
Installation				Remarks:									
Top (m)	Base (m)	Type	Dia (mm)										

 Compass Geotechnical 13 Willow Park, Stoke Golding CV13 6EU www.compassgeotechnical.co.uk		Windowless Sample Borehole Log				Project ID 263123		Borehole No. WSD					
Project Title: Highfields, East Grinstead		Location: West Hill, East Grinstead, RH19 4DL		Client: EQ Care East Grinstead Limited		Sheet 1 of 1							
						Scale: 1:50							
						Date Drilled 28/04/2026							
						Rig Crew: GE							
						Logged: RF							
Easting:		Northing:		Level (mAOD):		Checked:							
Samples & In Situ Testing			Strata Details					Groundwater					
Depth (mBGL)	Sample / Test ID	Test Result	Level (mAOD)	Depth (mBGL)	Legend	Strata Description	Depth (mBGL)	Water Strike	Backfill/ Installation				
0.00 - 1.00	L	N=21 (11/5,5,5,6)		0.15		Turf over dark brown silty Topsoil.(0.15m)	1						
0.20 - 0.40	ES					MADE GROUND: Yellowish brown, pale grey and dark yellowish brown sandy clayey silt.(0.32m)							
						Brown sandy subsoil.(0.19m)							
0.70 - 1.00	D					Very stiff yellowish brown and dark yellowish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular and sub angular siltstone.(0.34m)							
1.00 - 1.45	SPT(C)	N=49 (20/11,13,13,12)		1.00		Stiff olive sandy slightly gravelly silty CLAY. Gravel is olive and olive grey extremely weak fine to coarse sub angular to sub rounded fine sandstone.(1.59m)	2						
1.00 - 2.00	L												
1.70 - 2.00	D												
2.00 - 2.45	SPT(C)	N=30 (10/8,7,7,8)					3						
2.00 - 3.00	L												
2.60 - 3.00	D												
3.00 - 3.45	SPT(C)	N=60 (18/11,13,16,20)		2.59		Extremely weak pale yellowish brown and yellowish brown SILTSTONE recovered as siltstone lithorelicts in a sandy silt matrix. (0.79m)	4						
3.00 - 4.00	L												
3.40 - 3.70	D												
				3.38		Stiff yellowish brown silty CLAY with occasional fine to coarse gravel size siltstone lithorelicts.(0.44m)	5						
4.00 - 4.45	SPT(C)			3.82		Extremely weak pale grey occasionally mottled yellowish brown SILTSTONE.(0.63m)	6						
				4.45		Refusal in SPT test at 4.0m bgl - no further progress possible.	7						
						Borehole Completed at 4.450m	8						
							9						
							10						
Borehole Diameter		Casing Diameter		Chiselling & Pits				Water Strikes			Observations		
Depth (m)	Diameter	Depth (m)	Diameter	Depth Top	To (m)	Duration	Remarks	Strike at (m)	Casing at (m)	Sealed at (m)	Time Mins	Rose to (m)	Remarks
4.45	115	1.00	115										No groundwater seepages encountered
Installation				Remarks:									
Top (m)	Base (m)	Type	Dia (mm)										



Appendix (iii) Trial Pit Logs



Project ID
263123

Trial Pit No.
TP1

Sheet 1 of 1

Scale: 1:25

Project Title:
Highfields, East Grinstead

Location:
West Hill, East Grinstead, RH19 4DL

Client:
EQ Care East Grinstead Limited

Date Excavated
28/04/2026

Logged:	RF
---------	----

Checked:

Easting:	
	Samples & In Situ Testing

Northing:

Level (mAOD):

Checked:

Samples & In Situ Testing

Strata Details

Depth (mBGL)	Sample / Test ID	Test Result	Level (mAOD)	Depth (mBGL)	Legend	Strata Description
0.10 - 1.50	B			0.10	Turf over yellowish brown Topsoil.(0.10m)	
0.10 - 1.50	ES			1.60	MADE GROUND: Masonry, concrete and brick rubble with rare plastic, wood, broken pipe, metal, cinder block and polystyrene infilled with yellowish brown silty slightly clayey fine to medium sand with rare black brown white fine to coarse angular to sub angular chert gravel.(1.50m) Trial Pit Completed at 1.600m	

Pit Dimensions		Pit Stability and Comments			Water Strikes		Observations		
Pit Length (m)	Pit Width (m)	Pit Stability	Shoring Used	Remarks	Strike at (m)	Sealed at (m)	Time Mins	Rose to (m)	Remarks
2.00	0.30	Severe collapse of pit sides	None						No groundwater seepages

Plant Used:
Kubota KU 057-4

Remarks:



Compass Geotechnical
13 Willow Park, Stoke Golding
CV13 6EU
www.compassgeotechnical.co.uk

Trial Pit Log

Project ID
263123

Trial Pit No.
TP2
Sheet 1 of 1
Scale: 1:25

Project Title: Highfields, East Grinstead
Location: West Hill, East Grinstead, RH19 4DL
Client: EQ Care East Grinstead Limited
Date Excavated: 28/04/2026

Easting:
Northing:
Level (mAOD):
Checked: RF

Samples & In Situ Testing			Strata Details				Groundwater		
Depth (mBGL)	Sample / Test ID	Test Result	Level (mAOD)	Depth (mBGL)	Legend	Strata Description	Depth (mBGL)	Water Strike	Backfill/ Installation
0.10 - 0.30	ES			0.09		Turf over yellow brown sandy silty Topsoil.(0.09m)			
						Yellowish brown mottled dark yellowish brown and rarely grey slightly clayey slightly gravelly sandy SILT with pockets of dark brown silty clay.(0.61m)			
1.00 - 1.30	D			0.70		Rare brick and slate in upper horizons	1		
						Dark yellowish brown silty CLAY with occasional pale brown partings.(0.65m)			
1.50 - 2.00	B			1.35		Stiff yellowish brown mottled dark yellowish brown and occasionally white and pale grey silty CLAY with occasional cobbles of yellow brown sandy siltstone and coarse angular siltstone gravel.(0.90m)	2		
						Pale yellowish brown sandy SILT with occasional siltstone coarse gravel and cobbles and occasional horizons of yellowish brown and pale brown clayey silt.(0.35m)			
				2.25		Trial Pit Completed at 2.600m	3		
				2.60			4		
							5		

Pit Dimensions		Pit Stability and Comments			Water Strikes		Observations		
Pit Length (m)	Pit Width (m)	Pit Stability	Shoring Used	Remarks	Strike at (m)	Sealed at (m)	Time Mins	Rose to (m)	Remarks
2.00	0.30	Stable	None						No groundwater seepages

Plant Used: Kubota KU 057-4
Remarks:

 Compass Geotechnical 13 Willow Park, Stoke Golding CV13 6EU www.compassgeotechnical.co.uk		Trial Pit Log				Project ID 263123		Trial Pit No. TP3		
Project Title: Highfields, East Grinstead		Location: West Hill, East Grinstead, RH19 4DL		Client: EQ Care East Grinstead Limited		Sheet 1 of 1		Scale: 1:25		
Easting:		Northing:		Level (mAOD):		Logged:		Date Excavated 28/04/2026		
Samples & In Situ Testing				Strata Details		Groundwater				
Depth (mBGL)	Sample / Test ID	Test Result	Level (mAOD)	Depth (mBGL)	Legend	Strata Description		Depth (mBGL)	Water Strike	Backfill/ Installation
0.20 - 0.60	ES			0.12		Turf over brown Topsoil with roots.(0.12m)	1			
						Yellowish brown and brown silty slightly sandy slightly gravelly CLAY with pockets of dark brown clayey silt. Gravel is yellowish brown and pale grey slightly sandy siltstone.(1.18m)				
1.30 - 1.40	D			1.30		Stiff pale grey and pale yellowish brown silty CLAY.(0.15m)	2			
1.50 - 1.70	D			1.45		Yellowish brown and pale yellowish brown slightly clayey SILT with occasional siltstone of fine to coarse gravel and cobble size. (0.25m)				
				1.70		Trial Pit Completed at 1.700m	3			
							4			
							5			
Pit Dimensions		Pit Stability and Comments			Water Strikes		Observations			
Pit Length (m)	Pit Width (m)	Pit Stability	Shoring Used	Remarks	Strike at (m)	Sealed at (m)	Time Mins	Rose to (m)	Remarks	
2.00	0.30	Stable	None						No groundwater seepages	
Plant Used: Kubota KU 057-4		Remarks:								



Appendix (iv)

Laboratory Test Results – Material Properties



TEST REPORT
ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 04/06/2026



Contract	East Grinstead		
Serial No.	50171_1		
Client: Compass Geotechnical Limited 13 Willow Park Upton Lane Stoke Golding Nuneaton Warwickshire CV13 6EU		<i>Soil Property Testing Ltd</i> 15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG Tel: 01480 455579 Email: enquiries@soilpropertytesting.com Website: www.soilpropertytesting.com	
Samples Submitted By: Compass Geotechnical Limited Samples Labelled: East Grinstead		Approved Signatories: ☒ J.C. Garner B.Eng (Hons) FGS Technical Director ☐ G. Ferguson Operations Manager ☐ M. Stevenson Site Services Manager 	
Date Received: 30/04/2026		Samples Tested Between: 30/04/2026 and 29/05/2026	
Remarks: For the attention of Rachel Foord Your Reference No: 263123-2			
Notes: 1 All remaining samples or remnants from this contract will be disposed of after 21 days from today, unless we are notified to the contrary. 2 Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. 3 Tests marked "NOT UKAS ACCREDITED" in this test report are not included in the UKAS Accreditation Schedule for this testing laboratory. 4 This test report may not be reproduced other than in full except with the prior written approval of the issuing laboratory. 5 The results within this report only relate to the items tested or sampled.			

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TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 04/06/2026



Contract		East Grinstead												
Serial No.		50171_1												
SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX														
Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasti- city Index (%)	Liquid- ity Index	Sample Preparation				Description	Class
									Method	Ret'd 0.425mm (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
TP2	1.00 - 1.30	D	-	23.5	30	20	10	0.35	Wet Sieved	10 (M)	26.1*	91	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular siltstone	CL
TP3	1.30 - 1.40	D	-	18.0	34	15	19	0.16	From Natural	0 (A)		96	Firm mottled light bluish grey and pale yellow silty CLAY with occasional orange staining	CL
WSA	0.87 - 1.00	D	-	11.9	28	17	11	-0.46	Wet Sieved	12 (M)	13.5*	89	Mottled light grey and yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular siltstone	CL
WSA	1.75 - 2.00	D	-	14.3	48	18	30	-0.12	From Natural	<1% (A)		98	Very soft mottled light grey and pale yellow silty CLAY with occasional orange staining, rare fine siltstone fragments and decayed roots	CI
WSB	1.70 - 2.00	D	-	16.4	43	18	25	-0.06	Wet Sieved	17 (M)	19.8*	92	Very stiff mottled light bluish grey and brownish yellow slightly gravelly slightly sandy silty CLAY with occasional orange and black staining. Gravel is fine and medium angular ferruginous sandstone	CI
WSB	2.70 - 3.00	D	-	10.6	31	14	17	-0.20	Wet Sieved	6 (M)	11.3*	90	Very stiff mottled light grey, grey, pale olive and yellow slightly gravelly slightly sandy silty CLAY with occasional orange staining. Gravel is fine and medium angular siltstone	CL
WSC	0.70 - 1.00	D	-	11.0	24	13	11	-0.19	Wet Sieved	8 (M)	11.9*	94	Light grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular siltstone	CL
Method Of Preparation:		BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:4.2												
Method of Test:		BS EN ISO: 17892-1: 2014+A1:2022 & BS 1377: Part 2:1990:3.2, 4.4, 5.3, 5.4												
Type of Sample Key:		U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter												
Comments:		*Corrected water content assume material greater than 0.425mm is non-porous. See BS1377: Part 2: 1990 Clause 3 Note 1.												
Table Notation:		Ret'd 0.425mm: (A) = Assumed, (M) = Measured												



TEST REPORT

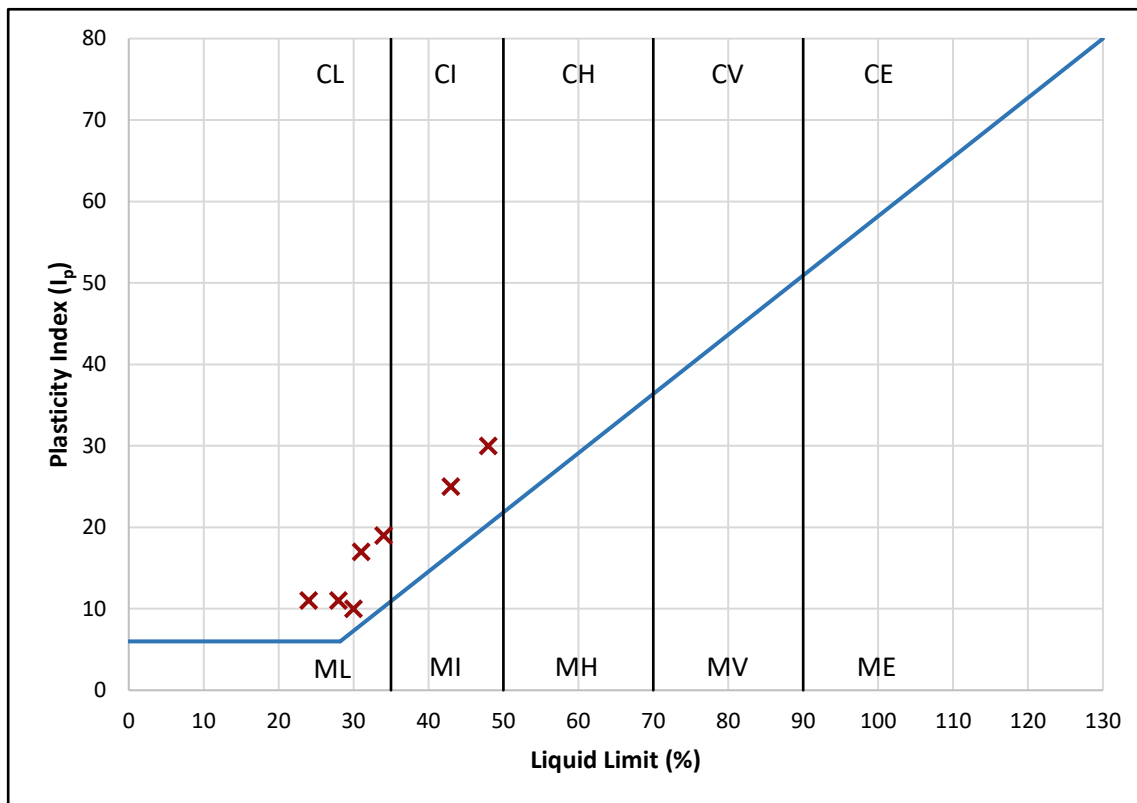
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DATE ISSUED: 04/06/2026



Contract	East Grinstead
Serial No.	50171_1

PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART

Plasticity				
Low	Medium	High	Very High	Extremely High



Plasticity Chart BS5930: 2015: Figure 8

High	NHBC Volume Change Potential
Medium	
Low	

Method of Preparation:	BS 1377: Part 2: 1990: 4.2
Method of Test:	BS1377: Part 2: 3.2, 4.4, 5.3, 5.4
Type of Sample Key:	U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index



TEST REPORT

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Contract	East Grinstead						
Serial No.	50171_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
TP2	1.00 - 1.30	D	-	23.5	Soft yellowish brown slightly gravelly slightly sandy silty CLAY with rare recently active roots. Gravel is fine to coarse angular siltstone		
PREPARATION					Liquid Limit	30 %	
Method of preparation					Wet sieved over 0.425mm sieve	Plastic Limit	20 %
Sample retained 0.425mm sieve (Measured)					10 %	Plasticity Index	10 %
Corrected water content for material passing 0.425mm					26.1 %	Liquidity Index	0.35
Sample retained 2mm sieve (Measured)					9 %	NHBC Modified (I'p)	9 %
Curing time		91 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) High Medium Low NHBC Volume Change Potential Liquid Limit %							

Plasticity Chart BS5930: 2015: Figure 8



TEST REPORT

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Contract	East Grinstead						
Serial No.	50171_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
TP3	1.30 - 1.40	D	-	18.0	Firm mottled light bluish grey and pale yellow silty CLAY with occasional orange staining		
PREPARATION					Liquid Limit	34 %	
Method of preparation					From natural	Plastic Limit	15 %
Sample retained 0.425mm sieve (Assumed)					0 %	Plasticity Index	19 %
Corrected water content for material passing 0.425mm						Liquidity Index	0.16
Sample retained 2mm sieve (Assumed)					0 %	NHBC Modified (I'p)	n/a
Curing time		96 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (I_p) 70 60 50 40 30 20 10 0 0 10 20 30 40 50 60 70 80 90 100 110 120 CL CI CH CV CE ML MI MH MV ME Plasticity Chart BS5930: 2015: Figure 8 High Medium Low NHBC Volume Change Potential Liquid Limit %							
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2							
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4							
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter							
Comments:							



TEST REPORT

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DATE ISSUED: 04/06/2026



Contract	East Grinstead						
Serial No.	50171_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
WSA	0.87 - 1.00	D	-	11.9	Mottled light grey and yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular siltstone		
PREPARATION					Liquid Limit	28 %	
Method of preparation					Wet sieved over 0.425mm sieve	Plastic Limit	17 %
Sample retained 0.425mm sieve (Measured)					12 %	Plasticity Index	11 %
Corrected water content for material passing 0.425mm					13.5 %	Liquidity Index	-0.46
Sample retained 2mm sieve (Measured)					11 %	NHBC Modified (I'p)	10 %
Curing time		89 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) High Medium Low NHBC Volume Change Potential Liquid Limit %							

Plasticity Chart BS5930: 2015: Figure 8



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 04/06/2026



Contract	East Grinstead							
Serial No.	50171_1							
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX								
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks		
WSA	1.75 - 2.00	D	-	14.3	Very soft mottled light grey and pale yellow silty CLAY with occasional orange staining, rare fine siltstone fragments and decayed roots			
PREPARATION					Liquid Limit	48 %		
Method of preparation					From natural/gravel picked out by hand	Plastic Limit	18 %	
Sample retained 0.425mm sieve					(Assumed)	0 %	Plasticity Index	30 %
Corrected water content for material passing 0.425mm							Liquidity Index	-0.12
Sample retained 2mm sieve					(Assumed)	<1 %	NHBC Modified (I'p)	n/a
Curing time			98 hrs	Clay Content	Not analysed	Derived Activity	Not analysed	
C=CLAY M=SILT Plasticity Index % (I_p) Liquid Limit %						High Medium Low NHBC Volume Change Potential		
Plasticity Chart BS5930: 2015: Figure 8								
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2								
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4								
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter								
Comments:								



TEST REPORT

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DATE ISSUED: 04/06/2026



Contract	East Grinstead						
Serial No.	50171_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type	Reference	Water Content (W) %	Description	Remarks	
WSB	1.70 - 2.00	D	-	16.4	Very stiff mottled light bluish grey and brownish yellow slightly gravelly slightly sandy silty CLAY with occasional orange and black staining. Gravel is fine and medium angular ferruginous sandstone		
PREPARATION					Liquid Limit	43 %	
Method of preparation					Wet sieved over 0.425mm sieve	Plastic Limit	18 %
Sample retained 0.425mm sieve (Measured)					17 %	Plasticity Index	25 %
Corrected water content for material passing 0.425mm					19.8 %	Liquidity Index	-0.06
Sample retained 2mm sieve (Measured)					15 %	NHBC Modified (I'p)	21 %
Curing time			92 hrs	Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) High Medium Low NHBC Volume Change Potential Liquid Limit %							

Plasticity Chart BS5930: 2015: Figure 8



TEST REPORT

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Contract	East Grinstead						
Serial No.	50171_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
WSB	2.70 - 3.00	D	-	10.6	Very stiff mottled light grey, grey, pale olive and yellow slightly gravelly slightly sandy silty CLAY with occasional orange staining. Gravel is fine and medium angular siltstone		
PREPARATION					Liquid Limit	31 %	
Method of preparation					Wet sieved over 0.425mm sieve	Plastic Limit	14 %
Sample retained 0.425mm sieve (Measured)					6 %	Plasticity Index	17 %
Corrected water content for material passing 0.425mm					11.3 %	Liquidity Index	-0.20
Sample retained 2mm sieve (Measured)					5 %	NHBC Modified (I'p)	16 %
Curing time		90 hrs		Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) Liquid Limit %						High Medium Low NHBC Volume Change Potential	
Plasticity Chart BS5930: 2015: Figure 8							
Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2							
Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.4, 5.3, 5.4							
Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter							
Comments: Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1							
Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index							
Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)							



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Contract	East Grinstead						
Serial No.	50171_1						
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX							
Borehole / Pit No.	Depth m	Sample Type Reference		Water Content (W) %	Description	Remarks	
WSC	0.70 - 1.00	D	-	11.0	Light grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular siltstone		
PREPARATION					Liquid Limit	24 %	
Method of preparation					Wet sieved over 0.425mm sieve	Plastic Limit	13 %
Sample retained 0.425mm sieve (Measured)					8 %	Plasticity Index	11 %
Corrected water content for material passing 0.425mm					11.9 %	Liquidity Index	-0.19
Sample retained 2mm sieve (Measured)					7 %	NHBC Modified (I'p)	10 %
Curing time			94 hrs	Clay Content	Not analysed	Derived Activity	Not analysed
C=CLAY M=SILT Plasticity Index % (Ip) High Medium Low NHBC Volume Change Potential Liquid Limit %							

Plasticity Chart BS5930: 2015: Figure 8



TEST REPORT

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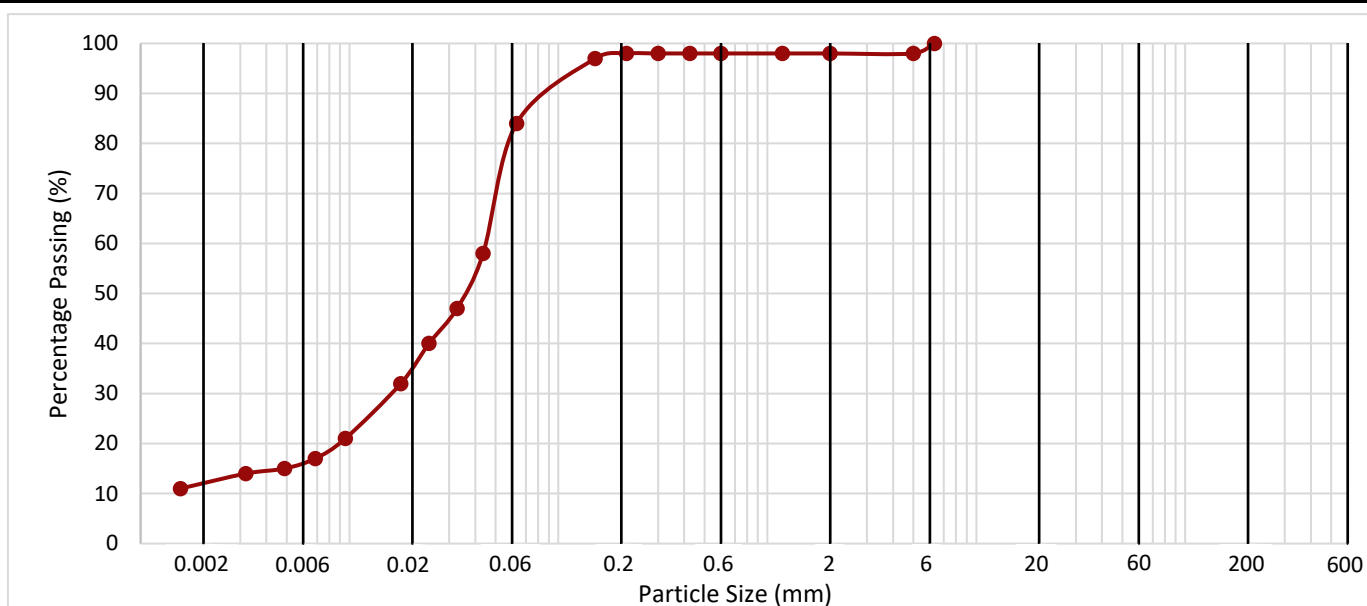


Contract	East Grinstead
Serial No.	50171_1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Pit No.	Depth (m)	Sample		Description	Remarks
		Type	Reference		
WSB	1.00 - 1.50	D	-	Yellow slightly gravelly clayey SILT with rare weak siltstone fragments	

Method of Test: Hydrometer + Pre-sieve Method of Pretreatment: Not required



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

H y d r o m e t e r	Particle Size (mm)	Passing (%)	Silt by Dry Mass (%)
	0.0436	58	72
	0.0327	47	
	0.0240	40	
	0.0176	32	Clay by Dry Mass (%)
	0.0096	21	
	0.0069	17	
	0.0049	15	
	0.0032	14	12
	0.0016	11	

Sieve Size (mm)	Passing (%)	Sand By Dry Mass (%)
2.00	98	14
1.18	98	
0.600	98	
0.425	98	
0.300	98	
0.212	98	
0.150	97	
0.063	84	

Fines By Dry Mass (%)	
<0.063mm	84

Sieve Size (mm)	Passing (%)	2mm+ By Dry Mass (%)
300		2
125		
90		
63		
50		
37.5		
28		
20		
14		
10		
6.3	100	
5	98	

Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5
 Method of test: BS1377: Part 2: 1990: 9.2,9.5
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 04/06/2026

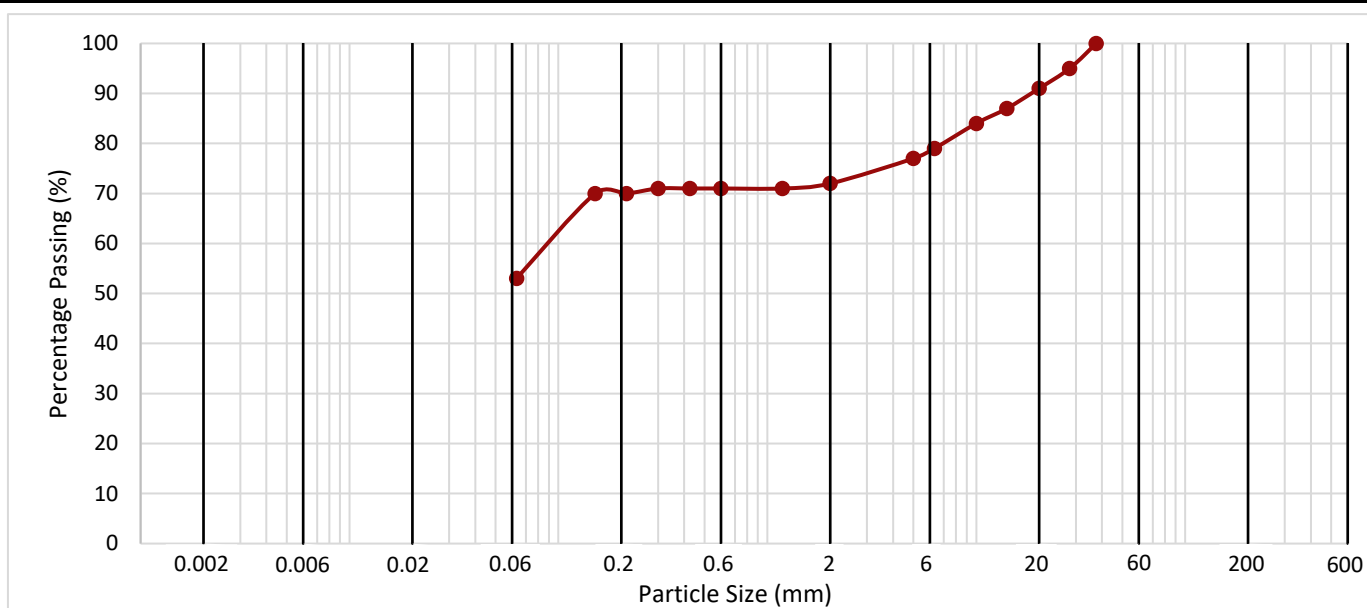


Contract	East Grinstead
Serial No.	50171_1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Borehole / Pit No.	Depth (m)	Sample		Description	Remarks
		Type	Reference		
WSD	1.70 - 2.00	D	-	Olive slightly sandy slightly gravelly silty CLAY. Gravel is olive and olive grey subangular and subrounded sandstone	

Method of Test: **Wet Sieve** Method of Pretreatment: **Not required**



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES	BOULDERS
	SILT			SAND			GRAVEL				

Hydrometer	Particle Size (mm)	Passing (%)	Silt by Dry Mass (%)
	Particle Size (mm)	Passing (%)	Clay by Dry Mass (%)

Sieve Size (mm)	Passing (%)	Sand By Dry Mass (%)
2.00	72	19
1.18	71	
0.600	71	
0.425	71	
0.300	71	
0.212	70	
0.150	70	
0.063	53	

Fines By Dry Mass (%)	
<0.063mm	53

Sieve Size (mm)	Passing (%)	2mm+ By Dry Mass (%)
300		28
125		
90		
63		
50		
37.5	100	
28	95	
20	91	
14	87	
10	84	
6.3	79	
5	77	

Method of Preparation: BS1377: Part 1: 2016: 8.3 & 8.4.5
 Method of test: BS1377: Part 2: 1990: 9.2
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter
 Comments:



TEST REPORT

ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 04/06/2026

Contract:	East Grinstead
Serial No:	50171_1

DETERMINATION OF THE SULPHATE CONTENT AND pH OF SOIL AND GROUNDWATER

Borehole / Pit No.	Depth (m)	Sample		Conc. of Soluble SO ₃		Calc'd	pH Value	% Sample Passing 2mm Sieve	Description	Remarks
		Type	Ref.	Water Soluble 2:1 (g/L)	Ground Water (g/L)	Conc. Of SO ₄ (g/L)				
TP1	0.10 - 1.50	B	-	0.02		0.03	7.7	46	MADE GROUND comprising brown and grey fine to coarse siltstone/sandstone, brick fragments, yellowish brown clayey silty sand with occasional recently active roots	
WSA	0.87 - 1.00	D	-	0.01		0.02	6.2	89	Mottled light grey and yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular siltstone	
WSB	1.70 - 2.00	D	-	0.02		0.02	5.5	85	Very stiff mottled light bluish grey and brownish yellow slightly gravelly slightly sandy silty CLAY with occasional orange and black staining. Gravel is fine and medium angular ferruginous sandstone	
WSC	0.70 - 1.00	D	-	0.02		0.02	6.3	93	Light grey slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular siltstone	
WSD	0.70 - 1.00	D	-	0.01		0.02	6.4	90	Very stiff friable brownish yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine to coarse angular and subangular siltstone/sandstone	
WSD	1.70 - 2.00	D	-	0.04		0.05	6.9	72	Olive slightly sandy slightly gravelly silty CLAY. Gravel is olive and olive grey subangular and subrounded sandstone	

Method of Preparation: BS1377: Part 1: 2016: 8.5, BS1377: Part 3: 1990: 5.3 Soil/Water Extract, 5.4 Groundwater
Method of Test: BS1377: Part 3: 1990: 5.5
Type of Sample Key: U= Undisturbed, B= Bulk, D= Disturbed, J= Jar, W= Water, SPT= Split Spoon Sample, C= Core Cutter
Comments: **Test not UKAS accredited**
Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location, and origin of test specimen within original sample. Oven drying temperature if not 105-110C.



Appendix (v)

Laboratory Test Results – Contamination

The chemical laboratory test results include a basic soil description which is a subjective description based on visual assessment only using a limited number of terms. The description is solely to ensure that the testing matrix complies with the laboratory's MCERTS accredited matrices and, in the case of dispute, to distinguish between samples. The sample description given on the logs by Compass Geotechnical Limited is in accordance with BS 5930:2015 + A1:2020 Code of Practice for Ground Investigations and take precedence over any laboratory description.

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i2 Analytical Ltd.
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e: info-i2analytical@normecgroup.com

Analytical Report Number : 26-023350

Project / Site name:	East Grinstead	Samples received on:	01/05/2026
Your job number:	263123-1	Samples instructed on/ Analysis started on:	01/05/2026
Your order number:	263123-1	Analysis completed by:	13/05/2026
Report Issue Number:	1	Report issued on:	13/05/2026
Samples Analysed:	7 soil samples - 3 2stage samples		


Signed:
Adan Cazas Garcia
Key Account Manager
For & on behalf of i2 Analytical Ltd.

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

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

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

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting
air - once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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

Analytical Report Number: 26-023350
Project / Site name: East Grinstead
Your Order No: 263123-1

Lab Sample Number	907888	907889	907890	907891	907892
Sample Reference	TP1	TP2	TP3	WSA	WSB
Sample Number	ES1	ES1	ES1	ES1	ES1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10-1.50	0.10-0.30	0.20-0.60	0.20-0.30	0.15-1.00
Date Sampled	28/04/2026	28/04/2026	28/04/2026	28/04/2026	28/04/2026
Time Taken	1030	1110	1200	0745	1000
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	12	12	15	14
Total mass of sample received	kg	0.1	NONE	2	1	0.9	0.8	2

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	-	-	-	MJN
Analysis completed	N/A	N/A	N/A	13/05/2026	-	-	-	13/05/2026

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	8.4	-	-	-	6.8
pH (L099)	pH Units	N/A	MCERTS	9.4	7.6	6.1	6.1	6.6
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	0.4	-	-	-	0.7
Loss on Ignition @ 450°C	%	0.2	MCERTS	1.6	-	-	-	2
Acid Neutralisation Capacity	mmol/kg	-9999	NONE	6.5	-	-	-	-0.31

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.09	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1	< 0.05	< 0.05	0.36	0.31
Anthracene	mg/kg	0.05	MCERTS	0.28	< 0.05	< 0.05	0.05	0.17
Fluoranthene	mg/kg	0.05	MCERTS	2.7	< 0.05	< 0.05	1.4	0.85
Pyrene	mg/kg	0.05	MCERTS	2.2	< 0.05	< 0.05	1.2	0.72
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.2	< 0.05	< 0.05	0.73	0.43
Chrysene	mg/kg	0.05	MCERTS	1.2	< 0.05	< 0.05	0.81	0.49
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.4	< 0.05	< 0.05	1	0.45
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.68	< 0.05	< 0.05	0.49	0.25
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.2	< 0.05	< 0.05	0.79	0.38
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.63	< 0.05	< 0.05	0.45	0.21
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05	< 0.05	0.12	0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.73	< 0.05	< 0.05	0.5	0.23
Coronene	mg/kg	0.05	NONE	0.21	-	-	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	13.4	< 0.80	< 0.80	7.85	4.53
Total WAC-17 PAHs	mg/kg	0.85	NONE	13.7	-	-	-	4.53

Analytical Report Number: 26-023350
Project / Site name: East Grinstead
Your Order No: 263123-1

Lab Sample Number	907888	907889	907890	907891	907892
Sample Reference	TP1	TP2	TP3	WSA	WSB
Sample Number	ES1	ES1	ES1	ES1	ES1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10-1.50	0.10-0.30	0.20-0.60	0.20-0.30	0.15-1.00
Date Sampled	28/04/2026	28/04/2026	28/04/2026	28/04/2026	28/04/2026
Time Taken	1030	1110	1200	0745	1000
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	1.8	-	-	-	1.6
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	7.5	5.4	28	8.6
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.44	-	-	-	0.43
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	-	-	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	U/S ^{U/S} g	< 1.8
Chromium (III)	mg/kg	1	NONE	13	-	-	-	15
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	-	-	< 1.80	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	12	18	13	15
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	9.6	15	20	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	160	22	65	84	250
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	270	-	-	-	320
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	1.1	0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.67	-	-	-	0.67
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.7	8	8	7.4	8.9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	100	37	35	65	64

Petroleum Hydrocarbons

TPH (>EC8 - EC10) _{HS_ID_TOTAL}	mg/kg	0.02	MCERTS	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TPH (>EC10 - EC12) _{EH_CU_ID_TOTAL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (>EC12 - EC16) _{EH_CU_ID_TOTAL}	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (>EC16 - EC21) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH (>EC21 - EC35) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	15	< 10	< 10	17	< 10
TPH (>EC35 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH Total >EC8 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	21	< 10	< 10	22	< 10
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TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	21	< 10	< 10	22	< 10
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Mineral Oil (EC10 - EC40) _{EH_CU_ID_AL}	mg/kg	10	NONE	< 10	-	-	-	< 10
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VOCs

Benzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	-	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0

Total BTEX	µg/kg	10	MCERTS	< 10	-	-	-	< 10
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Analytical Report Number: 26-023350
 Project / Site name: East Grinstead
 Your Order No: 263123-1

Lab Sample Number	907888	907889	907890	907891	907892
Sample Reference	TP1	TP2	TP3	WSA	WSB
Sample Number	ES1	ES1	ES1	ES1	ES1
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.10-1.50	0.10-0.30	0.20-0.60	0.20-0.30	0.15-1.00
Date Sampled	28/04/2026	28/04/2026	28/04/2026	28/04/2026	28/04/2026
Time Taken	1030	1110	1200	0745	1000
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	-	-	-	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	-	-	-	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	-	-	-	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	-	-	-	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	0.002	-	-	-	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	0.002	-	-	-	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	0.004	-	-	-	< 0.001
Total PCBs	mg/kg	0.007	MCERTS	0.008	-	-	-	< 0.007

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

Analytical Report Number: 26-023350
Project / Site name: East Grinstead
Your Order No: 263123-1

Lab Sample Number				907893	907894
Sample Reference				WSC	WSD
Sample Number				ES1	ES1
Water Matrix				N/A	N/A
Depth (m)				0.20-0.70	0.20-0.40
Date Sampled				28/04/2026	28/04/2026
Time Taken				1115	1145
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Mass of stone >10mm	%	0.1	NONE	< 0.1	14.4
Moisture Content	%	0.01	NONE	13	8.6
Total mass of sample received	kg	0.1	NONE	2	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	MJN	-
Analysis completed	N/A	N/A	N/A	13/05/2026	-

General Inorganics

pH (L005B)	pH Units	N/A	MCERTS	7.6	-
pH (L099)	pH Units	N/A	MCERTS	8.3	7.6
Total Organic Carbon (TOC) – Manual	%	0.1	MCERTS	< 0.1	-
Loss on Ignition @ 450°C	%	0.2	MCERTS	0.3	-
Acid Neutralisation Capacity	mmol/kg	-9999	NONE	1.7	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.09
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.09
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.06
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.06
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.07
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.07
Coronene	mg/kg	0.05	NONE	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80
Total WAC-17 PAHs	mg/kg	0.85	NONE	< 0.85	-

Analytical Report Number: 26-023350
Project / Site name: East Grinstead
Your Order No: 263123-1

Lab Sample Number				907893	907894
Sample Reference				WSC	WSD
Sample Number				ES1	ES1
Water Matrix				N/A	N/A
Depth (m)				0.20-0.70	0.20-0.40
Date Sampled				28/04/2026	28/04/2026
Time Taken				1115	1145
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	-
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	3.3	63
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.18	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	9.1	-
Chromium (hexavalent) by IC	mg/kg	1.8	NONE	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	9.1	10
Copper (aqua regia extractable)	mg/kg	1	MCERTS	7.3	8
Lead (aqua regia extractable)	mg/kg	1	MCERTS	7	15
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	42	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Molybdenum (aqua regia extractable)	mg/kg	0.25	MCERTS	0.29	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	3.9	8
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	21	37

Petroleum Hydrocarbons

TPH (>EC8 - EC10) _{HS_ID_TOTAL}	mg/kg	0.02	MCERTS	< 0.02	< 0.02
TPH (>EC10 - EC12) _{EH_CU_ID_TOTAL}	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH (>EC12 - EC16) _{EH_CU_ID_TOTAL}	mg/kg	4	MCERTS	< 4.0	< 4.0
TPH (>EC16 - EC21) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10
TPH (>EC21 - EC35) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10
TPH (>EC35 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10

TPH Total >EC8 - EC40 _{EH_CU+HS_ID_TOTAL}	mg/kg	10	NONE	< 10	< 10
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TPH (EC10 - EC40) _{EH_CU_ID_TOTAL}	mg/kg	10	MCERTS	< 10	< 10
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Mineral Oil (EC10 - EC40) _{EH_CU_ID_AL}	mg/kg	10	NONE	< 10	-
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VOCs

Benzene	µg/kg	5	MCERTS	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	-

Total BTEX	µg/kg	10	MCERTS	< 10	-
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Analytical Report Number: 26-023350
 Project / Site name: East Grinstead
 Your Order No: 263123-1

Lab Sample Number				907893	907894
Sample Reference				WSC	WSD
Sample Number				ES1	ES1
Water Matrix				N/A	N/A
Depth (m)				0.20-0.70	0.20-0.40
Date Sampled				28/04/2026	28/04/2026
Time Taken				1115	1145
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	-
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	-
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	-
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	-
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	-
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	-
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	-
Total PCBs	mg/kg	0.007	MCERTS	< 0.007	-

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

Analytical Report Number: 26-023350
Project / Site name: East Grinstead

Your Order No: 263123-1

Lab Sample Number	907888	907892	907893
Sample Reference	TP1	WSB	WSC
Sample Number	ES1	ES1	ES1
Water Matrix	N/A	N/A	N/A
Depth (m)	0.10-1.50	0.15-1.00	0.20-0.70
Date Sampled	28/04/2026	28/04/2026	28/04/2026
Time Taken	1030	1000	1115
Analytical Parameter (Two-stage Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status

Dry matter	%	0.1	ISO 17025	87	86	87
Moisture of sample	%	N/A	ISO 17025	15	16	15
Recovered volume A	l	N/A	ISO 17025	0.2	0.17	0.23
Volume used first stage	l	N/A	ISO 17025	0.324	0.322	0.323

General 2:1

Sulphate as SO ₄	mg/l	0.045	ISO 17025	11	2.4	2.4
Monohydric Phenols	mg/l	0.01	ISO 17025	< 0.010	< 0.010	< 0.010
Chloride	mg/l	0.15	ISO 17025	1.4	1.1	3.9
Fluoride	mg/l	0.05	ISO 17025	0.36	0.14	0.35
Dissolved Organic Carbon	mg/l	0.1	NONE	10.4	11	8.9
Total Dissolved Solids	mg/l	6	ISO 17025	91	120	27
Arsenic	mg/l	0.002	ISO 17025	0.016	< 0.0020	0.0042
Cadmium	mg/l	0.0001	ISO 17025	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	0.0006	ISO 17025	0.0071	< 0.00060	< 0.00060
Lead	mg/l	0.0017	ISO 17025	0.007	0.0042	< 0.0017
Mercury	mg/l	0.0007	ISO 17025	< 0.00070	< 0.00070	< 0.00070
Selenium	mg/l	0.005	ISO 17025	< 0.0050	< 0.0050	< 0.0050
Copper	mg/l	0.0007	ISO 17025	0.0096	0.015	0.013
Nickel	mg/l	0.0009	ISO 17025	< 0.00090	< 0.00090	0.00091
Zinc	mg/l	0.0009	ISO 17025	0.0099	0.0047	0.0089
Antimony	mg/l	0.002	ISO 17025	< 0.0020	< 0.0020	0.0085
Molybdenum	mg/l	0.0014	ISO 17025	0.0019	< 0.0014	0.0015
Barium	mg/l	0.0012	ISO 17025	0.029	0.0047	0.0016

General 8:1

Sulphate as SO ₄	mg/l	0.045	ISO 17025	3.1	1	0.83
Monohydric Phenols	mg/l	0.01	ISO 17025	< 0.010	< 0.010	< 0.010
Chloride	mg/l	0.15	ISO 17025	1.4	0.83	0.97
Fluoride	mg/l	0.05	ISO 17025	0.2	0.13	0.15
Dissolved Organic Carbon	mg/l	0.1	NONE	8.6	8.4	7.9
Total Dissolved Solids	mg/l	6	ISO 17025	55	11	10
Arsenic	mg/l	0.002	ISO 17025	0.021	< 0.0020	0.0043
Cadmium	mg/l	0.0001	ISO 17025	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	0.0006	ISO 17025	0.0021	0.00064	0.00062
Lead	mg/l	0.0017	ISO 17025	< 0.0017	< 0.0017	< 0.0017
Mercury	mg/l	0.0007	ISO 17025	< 0.0007	< 0.0007	< 0.0007
Selenium	mg/l	0.005	ISO 17025	< 0.0050	< 0.0050	< 0.0050
Copper	mg/l	0.0007	ISO 17025	0.0023	0.007	0.031
Nickel	mg/l	0.0009	ISO 17025	0.00098	< 0.00090	< 0.00090
Zinc	mg/l	0.0009	ISO 17025	0.009	0.0046	0.0049
Antimony	mg/l	0.002	ISO 17025	< 0.0020	0.0067	< 0.0020
Molybdenum	mg/l	0.0014	ISO 17025	< 0.0014	< 0.0014	< 0.0014
Barium	mg/l	0.0012	ISO 17025	0.013	0.0043	0.0037

Analytical Report Number: 26-023350
Project / Site name: East Grinstead

Your Order No: 263123-1

Lab Sample Number	907888	907892	907893
Sample Reference	TP1	WSB	WSC
Sample Number	ES1	ES1	ES1
Water Matrix	N/A	N/A	N/A
Depth (m)	0.10-1.50	0.15-1.00	0.20-0.70
Date Sampled	28/04/2026	28/04/2026	28/04/2026
Time Taken	1030	1000	1115
Analytical Parameter (Two-stage Leachate Analysis)	Units	Test Limit of detection	Test Accreditation Status

General 10:1

Sulphate as SO ₄	mg/kg	0.45	NONE	40	12	10
Monohydric Phenols	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10
Chloride	mg/kg	1.5	NONE	14	8.6	14
Fluoride	mg/kg	0.5	NONE	2.2	1.3	1.8
Dissolved Organic Carbon	mg/kg	1	NONE	88.2	87	80.4
Total Dissolved Solids	mg/kg	60	NONE	590	220	130
Arsenic	mg/kg	0.02	NONE	0.2	< 0.020	0.043
Cadmium	mg/kg	0.001	NONE	< 0.0010	< 0.0010	< 0.0010
Chromium	mg/kg	0.006	NONE	0.027	0.0063	0.0061
Lead	mg/kg	0.017	NONE	0.023	< 0.017	< 0.017
Mercury	mg/kg	0.007	NONE	< 0.0070	< 0.0070	< 0.0070
Selenium	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050
Copper	mg/kg	0.007	NONE	0.032	0.077	0.29
Nickel	mg/kg	0.009	NONE	0.0093	< 0.0090	< 0.0090
Zinc	mg/kg	0.009	NONE	0.091	0.046	0.054
Antimony	mg/kg	0.02	NONE	< 0.020	0.056	< 0.020
Molybdenum	mg/kg	0.014	NONE	< 0.014	< 0.014	< 0.014
Barium	mg/kg	0.012	NONE	0.15	0.043	0.034

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



4041

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Waste Acceptance Criteria Analytical Results							
Report No:	26-023350						
					Client: Compass Geotechnical		
Location	East Grinstead						
Lab Reference (Sample Number)	907888				Landfill Waste Acceptance Criteria		
Sampling Date	28/04/2026				Limits		
Sample ID	TP1 ES1				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.10-1.50						
Solid Waste Analysis							
TOC (%)**	0.4				3%	5%	6%
Loss on Ignition (%) **	1.6				--	--	10%
BTEX (µg/kg)**	< 10				6000	--	--
Sum of PCBs (mg/kg)**	0.008				1	--	--
Mineral Oil (mg/kg) EH, 1D, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	13.7				100	--	--
pH (units)**	8.4				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	6.5				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.016	0.021		0.2	0.5	2	25
Barium *	0.029	0.013		0.15	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	0.0071	0.0021		0.027	0.5	10	70
Copper *	0.0096	0.0023		0.032	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	0.0019	< 0.0014		< 0.014	0.5	10	30
Nickel *	< 0.00090	0.00098		0.0093	0.4	10	40
Lead *	0.007	< 0.0017		0.023	0.5	10	50
Antimony *	< 0.0020	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.0099	0.009		0.091	4	50	200
Chloride *	1.4	1.4		14	800	15000	25000
Fluoride*	0.36	0.2		2.2	10	150	500
Sulphate *	11	3.1		40	1000	20000	50000
TDS*	91	55		590	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010	< 0.010		< 0.10	1	-	-
DOC	10.4	8.6		88.2	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2						
Dry Matter (%)	89						
Moisture (%)	11						
Stage 1							
Volume Eluate L2 (litres)	0.324						
Filtered Eluate VE1 (litres)	0.2						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.							
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation							
** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.
Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

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Waste Acceptance Criteria Analytical Results							
Report No:	26-023350						
				Client: Compass Geotechnical			
Location	East Grinstead						
Lab Reference (Sample Number)	907892			Landfill Waste Acceptance Criteria			
Sampling Date	28/04/2026			Limits			
Sample ID	WSB ES1			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	0.15-1.00						
Solid Waste Analysis							
TOC (%)**	0.7			3%	5%	6%	
Loss on Ignition (%) **	2			--	--	10%	
BTEX (µg/kg)**	< 10			6000	--	--	
Sum of PCBs (mg/kg)**	< 0.007			1	--	--	
Mineral Oil (mg/kg) EH, ID, CU, AL	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	4.53			100	--	--	
pH (units)**	6.8			--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	-0.31			--	To be evaluated	To be evaluated	
Eluate Analysis				2:1	8:1		Cumulative 10:1
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	mg/l		mg/l	mg/kg			
				Limit values for compliance leaching test			
				using BS EN 12457-3 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0020	< 0.0020		< 0.020	0.5	2	25
Barium *	0.0047	0.0043		0.043	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	< 0.00060	0.00064		0.0063	0.5	10	70
Copper *	0.015	0.007		0.077	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	< 0.0014	< 0.0014		< 0.014	0.5	10	30
Nickel *	< 0.00090	< 0.00090		< 0.0090	0.4	10	40
Lead *	0.0042	< 0.0017		< 0.017	0.5	10	50
Antimony *	< 0.0020	0.0067		0.056	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.0047	0.0046		0.046	4	50	200
Chloride *	1.1	0.83		8.6	800	15000	25000
Fluoride*	0.14	0.13		1.3	10	150	500
Sulphate *	2.4	1		12	1000	20000	50000
TDS*	120	11		220	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010	< 0.010		< 0.10	1	-	-
DOC	11	8.4		87	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2						
Dry Matter (%)	86						
Moisture (%)	14						
Stage 1							
Volume Eluate L2 (litres)	0.322						
Filtered Eluate VE1 (litres)	0.17						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited			
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							
Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.							
Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.							

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Waste Acceptance Criteria Analytical Results							
Report No:	26-023350						
					Client: Compass Geotechnical		
Location	East Grinstead						
Lab Reference (Sample Number)	907893				Landfill Waste Acceptance Criteria		
Sampling Date	28/04/2026				Limits		
Sample ID	WSC ES1				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.20-0.70						
Solid Waste Analysis							
TOC (%)**	< 0.1				3%	5%	6%
Loss on Ignition (%) **	0.3				--	--	10%
BTEX (µg/kg)**	< 10				6000	--	--
Sum of PCBs (mg/kg)**	< 0.007				1	--	--
Mineral Oil (mg/kg) EH, 1D, CU, AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	7.6				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	1.7				--	To be evaluated	To be evaluated
Eluate Analysis					Limit values for compliance leaching test		
(BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1	8:1		Cumulative 10:1	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
	mg/l	mg/l		mg/kg			
Arsenic *	0.0042	0.0043		0.043	0.5	2	25
Barium *	0.0016	0.0037		0.034	20	100	300
Cadmium *	< 0.00010	< 0.00010		< 0.0010	0.04	1	5
Chromium *	< 0.00060	0.00062		0.0061	0.5	10	70
Copper *	0.013	0.031		0.29	2	50	100
Mercury *	< 0.00070	< 0.0007		< 0.0070	0.01	0.2	2
Molybdenum *	0.0015	< 0.0014		< 0.014	0.5	10	30
Nickel *	0.00091	< 0.00090		< 0.0090	0.4	10	40
Lead *	< 0.0017	< 0.0017		< 0.017	0.5	10	50
Antimony *	0.0085	< 0.0020		< 0.020	0.06	0.7	5
Selenium *	< 0.0050	< 0.0050		< 0.050	0.1	0.5	7
Zinc *	0.0089	0.0049		0.054	4	50	200
Chloride *	3.9	0.97		14	800	15000	25000
Fluoride*	0.35	0.15		1.8	10	150	500
Sulphate *	2.4	0.83		10	1000	20000	50000
TDS*	27	10		130	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010	< 0.010		< 0.10	1	-	-
DOC	8.9	7.9		80.4	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	2						
Dry Matter (%)	87						
Moisture (%)	13						
Stage 1							
Volume Eluate L2 (litres)	0.323						
Filtered Eluate VE1 (litres)	0.23						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.					* = UKAS accredited (liquid eluate analysis only)		
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation					** = MCERTS accredited		
Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.							
Where colour coding is used on this report, this is for guidance purposes only. This does not constitute a statement of conformity of pass or fail.							
Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.							

Analytical Report Number : 26-023350

Project / Site name: East Grinstead

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
907888	TP1	ES1	0.10-1.50	Brown loam and clay with gravel and vegetation
907889	TP2	ES1	0.10-0.30	Light brown sandy clay with gravel
907890	TP3	ES1	0.20-0.60	Light brown clay and sand with gravel and vegetation
907891	WSA	ES1	0.20-0.30	Brown sandy clay with gravel and vegetation
907892	WSB	ES1	0.15-1.00	Light brown sandy clay with concrete
907893	WSC	ES1	0.20-0.70	Brown sandy clay with gravel
907894	WSD	ES1	0.20-0.40	Light brown sandy clay with vegetation and stones

Analytical Report Number : 26-023350

Project / Site name: East Grinstead

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Moisture Content (Wet Weight)	Moisture content (% wet weight), determined gravimetrically (up to 30°C)	In-house-procedure based on BS EN 12880:2000	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L023B	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031B	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033B	W	ISO 17025
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037B	W	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed	L039B	W	ISO 17025
Two stage WAC leachate preparation	Two stage batch test at a liquid to solid ratio of 2 L/kg and 8 L/kg	BS EN 12457-3-2002	L043B	W	ISO 17025
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047-PL	D	MCERTS

Analytical Report Number : 26-023350

Project / Site name: East Grinstead

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphénylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
Total petroleum hydrocarbons by HS-GC-MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS	In-house method	L088-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

Analytical Report Number : 26-023350
Project / Site name: East Grinstead

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Hexavalent chromium in soil by Ion Chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE

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

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

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

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

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

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.



Appendix (vi)

HazWaste Online Waste Classification

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



VLVSP-A4QVT-YKX3A

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

Report is invalid if pages are removed.

Job name

26 3123B-1

Description/Comments

Project

26 3123B

Site

Highfields East Grinstead

Classified by

Name: Rachel Foord
Date: 11 Jun 2026 10:14 GMT
Telephone: 01255 830034 (Essex)
Company: Compass Geotechnical Limited
13 Willow Park
Upton Lane
Stoke Golding
CV13 6EU

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification
Most recent 3 year Refresher

Date

16 Mar 2017
05 Dec 2023

Next 3 year Refresher due by Dec 2026

Purpose of classification

7 - Disposal of Waste

Address of the waste

Highfields, West Hill, East Grinstead,

Post Code RH19 4DL

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

Redevelopment of house and grounds

Description of the specific process, sub-process and/or activity that created the waste

Waste created during excavation of foundation and services trenches and landscaping operations.

Description of the waste

Mainly natural soils comprising clays and sands. Localised made ground.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP1-ES1-28042026-0.10	0.1-1.5	Non Hazardous		3
2	TP2-ES1-28042026-0.10	0.1-0.3	Non Hazardous		5
3	TP3-ES1-28042026-0.20	0.2-0.6	Non Hazardous		7
4	WSA-ES1-28042026-0.20	0.2-0.3	Non Hazardous		9
5	WSB-ES1-28042026-0.15	0.15-1.0	Non Hazardous		11
6	WSC-ES1-28042026-0.20	0.2-0.7	Non Hazardous		13
7	WSD-ES1-28042026-0.20	0.2-0.4	Non Hazardous		15

Related documents

#	Name	Description
1	26-023350_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
2	WM3 1st Edition v1.2GB October 2021 Waste Stream Template	waste stream template used to create this Job

Report

Created by: Rachel Foord

Created date: 11 Jun 2026 10:14 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	17
Appendix B: Rationale for selection of metal species	18
Appendix C: Version	19

Classification of sample: TP1-ES1-28042026-0.10

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP1-ES1-28042026-0.10	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1-1.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	pH				9.4	pH		9.4	pH	9.4 pH		
2	boron { diboron trioxide }				0.6	mg/kg	3.22	1.719	mg/kg	0.000172 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	arsenic { arsenic trioxide }				14	mg/kg	1.32	16.451	mg/kg	0.00165 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
4	beryllium { beryllium oxide }				0.44	mg/kg	2.775	1.087	mg/kg	0.000109 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
5	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
6	manganese { manganese sulphate }				270	mg/kg	2.749	660.48	mg/kg	0.066 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
7	molybdenum { molybdenum(VI) oxide }				0.67	mg/kg	1.5	0.895	mg/kg	0.0000895 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
8	antimony { antimony trioxide }				1.8	mg/kg	1.197	1.918	mg/kg	0.000192 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
9	copper { dicopper oxide; copper (I) oxide }				15	mg/kg	1.126	15.031	mg/kg	0.0015 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
10	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
11	nickel { nickel chromate }				8.7	mg/kg	2.976	23.045	mg/kg	0.0023 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	lead { lead chromate }			1	160	mg/kg	1.56	222.118	mg/kg	0.0142 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
13	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
14	zinc { zinc chromate }				100	mg/kg	2.774	246.899	mg/kg	0.0247 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
15	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	16.91	mg/kg	0.00169 %	✓	
		215-160-9	1308-38-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
17	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				0.09 mg/kg		0.0801 mg/kg	0.0000801 %	✓	
		205-917-1	208-96-8							
19	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				1 mg/kg		0.89 mg/kg	0.000089 %	✓	
		201-581-5	85-01-8							
22	anthracene				0.28 mg/kg		0.249 mg/kg	0.0000249 %	✓	
		204-371-1	120-12-7							
23	fluoranthene				2.7 mg/kg		2.403 mg/kg	0.00024 %	✓	
		205-912-4	206-44-0							
24	pyrene				2.2 mg/kg		1.958 mg/kg	0.000196 %	✓	
		204-927-3	129-00-0							
25	benzo[a]anthracene				1.2 mg/kg		1.068 mg/kg	0.000107 %	✓	
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				1.2 mg/kg		1.068 mg/kg	0.000107 %	✓	
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				1.4 mg/kg		1.246 mg/kg	0.000125 %	✓	
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				0.68 mg/kg		0.605 mg/kg	0.0000605 %	✓	
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				1.2 mg/kg		1.068 mg/kg	0.000107 %	✓	
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				0.63 mg/kg		0.561 mg/kg	0.0000561 %	✓	
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				0.11 mg/kg		0.0979 mg/kg	0.0000979 %	✓	
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				0.73 mg/kg		0.65 mg/kg	0.000065 %	✓	
		205-883-8	191-24-2							
33	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
34	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
35	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
36	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-022-00-9	215-535-7	1330-20-7							
37	polychlorobiphenyls; PCB				0.008 mg/kg		0.0071 mg/kg	0.00000712 %	✓	
	602-039-00-4	215-648-1	1336-36-3							
38	coronene				0.21 mg/kg		0.187 mg/kg	0.0000187 %	✓	
		205-881-7	191-07-1							
Total:								0.114 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP2-ES1-28042026-0.10

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP2-ES1-28042026-0.10	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1-0.3 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	pH				7.6	pH		7.6	pH	7.6 pH		
2	arsenic { arsenic trioxide }				7.5	mg/kg	1.32	8.714	mg/kg	0.000871 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				9.6	mg/kg	1.126	9.512	mg/kg	0.000951 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
6	nickel { nickel chromate }				8	mg/kg	2.976	20.953	mg/kg	0.0021 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
7	lead { lead chromate }			1	22	mg/kg	1.56	30.198	mg/kg	0.00194 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				37	mg/kg	2.774	90.326	mg/kg	0.00903 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	15.434	mg/kg	0.00154 %	✓	
		215-160-9	1308-38-9									
11	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<LOD
	024-017-00-8											
12	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
14	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
15	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0164 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP3-ES1-28042026-0.20

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
TP3-ES1-28042026-0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2-0.6 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	pH				6.1	pH		6.1	pH	6.1 pH		
2	arsenic { arsenic trioxide }				5.4	mg/kg	1.32	6.274	mg/kg	0.000627 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				15	mg/kg	1.126	14.862	mg/kg	0.00149 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
6	nickel { nickel chromate }				8	mg/kg	2.976	20.953	mg/kg	0.0021 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
7	lead { lead chromate }			1	65	mg/kg	1.56	89.221	mg/kg	0.00572 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				35	mg/kg	2.774	85.444	mg/kg	0.00854 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				18	mg/kg	1.462	23.151	mg/kg	0.00232 %	✓	
		215-160-9	1308-38-9									
11	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<LOD
	024-017-00-8											
12	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
14	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
15	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0208 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WSA-ES1-28042026-0.20

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WSA-ES1-28042026-0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2-0.3 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	pH				6.1	pH		6.1	pH	6.1 pH		
2	arsenic { arsenic trioxide }				28	mg/kg	1.32	31.424	mg/kg	0.00314 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	19.14	mg/kg	0.00191 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
5	mercury { mercury dichloride }				1.1	mg/kg	1.353	1.266	mg/kg	0.000127 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
6	nickel { nickel chromate }				7.4	mg/kg	2.976	18.721	mg/kg	0.00187 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
7	lead { lead chromate }			1	84	mg/kg	1.56	111.371	mg/kg	0.00714 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
9	zinc { zinc chromate }				65	mg/kg	2.774	153.272	mg/kg	0.0153 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	16.15	mg/kg	0.00162 %	✓	
		215-160-9	1308-38-9									
11	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<LOD
	024-017-00-8											
12	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
14	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
15	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.36 mg/kg		0.306 mg/kg	0.0000306 %	✓	
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.0425 mg/kg	0.00000425 %	✓	
18	fluoranthene	205-912-4	206-44-0		1.4 mg/kg		1.19 mg/kg	0.000119 %	✓	
19	pyrene	204-927-3	129-00-0		1.2 mg/kg		1.02 mg/kg	0.000102 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		0.73 mg/kg		0.62 mg/kg	0.000062 %	✓	
21	chrysene	601-048-00-0	205-923-4		0.81 mg/kg		0.689 mg/kg	0.0000689 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		1 mg/kg		0.85 mg/kg	0.000085 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.49 mg/kg		0.417 mg/kg	0.0000416 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.79 mg/kg		0.672 mg/kg	0.0000672 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		0.45 mg/kg		0.383 mg/kg	0.0000383 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.12 mg/kg		0.102 mg/kg	0.0000102 %	✓	
27	benzo[ghi]perylene	205-883-8	191-24-2		0.5 mg/kg		0.425 mg/kg	0.0000425 %	✓	
Total:								0.0318 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WSB-ES1-28042026-0.15

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WSB-ES1-28042026-0.15	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.15-1.0 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	pH				6.6	pH		6.6	pH	6.6 pH		
2	boron { diboron trioxide }				0.3	mg/kg	3.22	0.831	mg/kg	0.0000831 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	arsenic { arsenic trioxide }				8.6	mg/kg	1.32	9.765	mg/kg	0.000977 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
4	beryllium { beryllium oxide }				0.43	mg/kg	2.775	1.026	mg/kg	0.000103 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
5	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
6	manganese { manganese sulphate }				320	mg/kg	2.749	756.405	mg/kg	0.0756 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
7	molybdenum { molybdenum(VI) oxide }				0.67	mg/kg	1.5	0.864	mg/kg	0.0000864 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
8	antimony { antimony trioxide }				1.6	mg/kg	1.197	1.647	mg/kg	0.000165 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
9	copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	19.365	mg/kg	0.00194 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
10	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.349	mg/kg	0.0000349 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
11	nickel { nickel chromate }				8.9	mg/kg	2.976	22.78	mg/kg	0.00228 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	lead { lead chromate }			1	250	mg/kg	1.56	335.36	mg/kg	0.0215 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
13	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
14	zinc { zinc chromate }				64	mg/kg	2.774	152.689	mg/kg	0.0153 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
15	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				15	mg/kg	1.462	18.854	mg/kg	0.00189 %	✓	
		215-160-9	1308-38-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
17	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	phenanthrene 201-581-5	85-01-8			0.31 mg/kg		0.267 mg/kg	0.0000267 %	✓	
22	anthracene 204-371-1	120-12-7			0.17 mg/kg		0.146 mg/kg	0.0000146 %	✓	
23	fluoranthene 205-912-4	206-44-0			0.85 mg/kg		0.731 mg/kg	0.0000731 %	✓	
24	pyrene 204-927-3	129-00-0			0.72 mg/kg		0.619 mg/kg	0.0000619 %	✓	
25	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.43 mg/kg		0.37 mg/kg	0.000037 %	✓	
26	chrysene 601-048-00-0	205-923-4	218-01-9		0.49 mg/kg		0.421 mg/kg	0.0000421 %	✓	
27	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.45 mg/kg		0.387 mg/kg	0.0000387 %	✓	
28	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.25 mg/kg		0.215 mg/kg	0.0000215 %	✓	
29	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.38 mg/kg		0.327 mg/kg	0.0000327 %	✓	
30	indeno[123-cd]pyrene 205-893-2	193-39-5			0.21 mg/kg		0.181 mg/kg	0.0000181 %	✓	
31	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.05 mg/kg		0.043 mg/kg	0.0000043 %	✓	
32	benzo[ghi]perylene 205-883-8	191-24-2			0.23 mg/kg		0.198 mg/kg	0.0000198 %	✓	
33	benzene 601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
36	xylene 601-022-00-9	215-535-7	1330-20-7		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
37	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
38	coronene 205-881-7	191-07-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.12 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WSC-ES1-28042026-0.20

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WSC-ES1-28042026-0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2-0.7 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	pH				8.3	pH		8.3	pH	8.3 pH		
2	boron { diboron trioxide }				0.3	mg/kg	3.22	0.84	mg/kg	0.000084 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	arsenic { arsenic trioxide }				3.3	mg/kg	1.32	3.791	mg/kg	0.000379 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
4	beryllium { beryllium oxide }				0.18	mg/kg	2.775	0.435	mg/kg	0.0000435 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
5	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
6	manganese { manganese sulphate }				42	mg/kg	2.749	100.433	mg/kg	0.01 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
7	molybdenum { molybdenum(VI) oxide }				0.29	mg/kg	1.5	0.378	mg/kg	0.0000378 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
8	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
9	copper { dicopper oxide; copper (I) oxide }				7.3	mg/kg	1.126	7.151	mg/kg	0.000715 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
10	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
11	nickel { nickel chromate }				3.9	mg/kg	2.976	10.098	mg/kg	0.00101 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	lead { lead chromate }			1	7	mg/kg	1.56	9.499	mg/kg	0.000609 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
13	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
14	zinc { zinc chromate }				21	mg/kg	2.774	50.684	mg/kg	0.00507 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
15	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				9.1	mg/kg	1.462	11.571	mg/kg	0.00116 %	✓	
		215-160-9	1308-38-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
17	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	phenanthrene 201-581-5	85-01-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluoranthene 205-912-4	206-44-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	pyrene 204-927-3	129-00-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	benzene 601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
36	xylene 601-022-00-9	215-535-7	1330-20-7		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
37	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
38	coronene 205-881-7	191-07-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0191 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WSD-ES1-28042026-0.20

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
WSD-ES1-28042026-0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2-0.4 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.6%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	pH				7.6 pH		7.6 pH	7.6 pH		
2	arsenic { arsenic trioxide }				63 mg/kg	1.32	76.027 mg/kg	0.0076 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.313 mg/kg	0.0000313 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	copper { dicopper oxide; copper (I) oxide }				8 mg/kg	1.126	8.232 mg/kg	0.000823 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
5	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
6	nickel { nickel chromate }				8 mg/kg	2.976	21.762 mg/kg	0.00218 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
7	lead { lead chromate }			1	15 mg/kg	1.56	21.385 mg/kg	0.00137 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
9	zinc { zinc chromate }				37 mg/kg	2.774	93.816 mg/kg	0.00938 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
10	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				10 mg/kg	1.462	13.359 mg/kg	0.00134 %	✓	
		215-160-9	1308-38-9							
11	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
12	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
14	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
15	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	fluoranthene	205-912-4	206-44-0		0.09 mg/kg		0.0823 mg/kg	0.00000823 %	✓	
19	pyrene	204-927-3	129-00-0		0.09 mg/kg		0.0823 mg/kg	0.00000823 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.05 mg/kg		0.0457 mg/kg	0.00000457 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.06 mg/kg		0.0548 mg/kg	0.00000548 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.06 mg/kg		0.0548 mg/kg	0.00000548 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	indeno[123-cd]pyrene	205-893-2	193-39-5		0.07 mg/kg		0.064 mg/kg	0.0000064 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	benzo[ghi]perylene	205-883-8	191-24-2		0.07 mg/kg		0.064 mg/kg	0.0000064 %	✓	
Total:								0.0228 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

• pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 version 1.1.NI and 1.2.GB 2021
Data source date: 30 Jan 2021
Hazard Statements: None.

• chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from ECHACHEM; notifications <1% & outliers (H360, H413) ignored
Data source: <https://chem.echa.europa.eu/100.013.783/overview>
Data source date: 16 Mar 2026
Hazard Statements: Acute Tox. 4; H302, Skin Sens. 1; H317, Eye Irrit. 2; H319, Resp. Sens. 1; H334

• acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v6.7 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.380/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/416703>
Data source date: 02 Mar 2026
Hazard Statements: Acute Tox. 4; H302, Acute Tox. 1; H310, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Acute Tox. 1; H330, STOT SE 3; H335

• acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v6.8 dated 12/12/2025
Data source: <https://chem.echa.europa.eu/100.001.336/industry/113817?searchText=83-32-9>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/215376>
Data source date: 02 Mar 2026
Hazard Statements: Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v6.6 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.001.541/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/128333>
Data source date: 02 Mar 2026
Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from ECHACHEM; CLP submissions;
SDS Sigma Aldrich v7.2 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.001.437/overview>
<https://www.sigmaaldrich.com/GB/en/sds/supelco/48569>
Data source date: 02 Mar 2026
Hazard Statements: Acute Tox. 4; H302, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, EUH441

• anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from ECHACHEM; CLP submissions
SDS Sigma Aldrich v9.3 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.003.974/overview>
<https://www.sigmaaldrich.com/GB/en/sds/supelco/48567>
Data source date: 03 Mar 2026
Hazard Statements: Skin Irrit. 2; H315, Eye Irrit. 2; H319, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, PBT; EUH440

• fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from ECHACHEM; CLP submissions
SDS Sigma Aldrich v7.2 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.376/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/f807>
Data source date: 03 Mar 2026
Hazard Statements: Acute Tox. 4; H302, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, PBT; EUH440, EUH441

• pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from ECHACHEM; CLP submissions
SDS Sigma Aldrich v7.2 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.004.481/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/185515>
Data source date: 03 Mar 2026
Hazard Statements: Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, PBT; EUH440, EUH441

■ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from ECHACHEM database; CLP submissions
SDS Sigma Aldrich v6.8 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.359/overview>
<https://www.sigmaaldrich.com/GB/en/sds/supelco/48499>
Data source date: 03 Mar 2026
Hazard Statements: Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from ECHACHEM; CLP submissions; Sigma Aldrich SDS v7.1 dated 25/12/2025
Data source: <https://chem.echa.europa.eu/100.005.350/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/b9009>
Data source date: 18 May 2026
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , vPvB; EUH441 , PBT; EUH440

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments: IARC considers ethylbenzene Group 2B; Possibly carcinogenic to humans;
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2026 - Carc. 2; H351 hazard statement sourced from:: IARC Group 2B (77) 2000

■ **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

GB MCL index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
03 Jun 2026 - Carc. 1A; H350 hazard statement sourced from:: IARC Group 1 (23, Sup 7, 100C) 2012

■ **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from ECHACHEM; CLP submissions;
Sigma Aldrich SDS v6.4 dated 23/12/2025
Data source: <https://chem.echa.europa.eu/100.005.348/overview>
<https://www.sigmaaldrich.com/GB/en/sds/aldrich/c84801>
Data source date: 03 Mar 2026
Hazard Statements: STOT SE 2; H371

Appendix B: Rationale for selection of metal species

boron {diboron trioxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass.

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds.

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics.

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history.

manganese {manganese sulphate}

Worst case CLP species based on hazard statements/molecular weight

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight.

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings.

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight.

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

chromium in Cr(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass.

chromium in Cr(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2026.159.7155.12876 (08 Jun 2026)

HazWasteOnline Database: 2026.159.7155.12876 (08 Jun 2026)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

GB MCL List v6.0 - version 6.0 of 15th February 2025

GB MCL List v7.0 - version 7.0 of 23rd September 2025



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