



Coventry City Council

Browns Lane, Coventry

Phase 2 Geo-environmental and Geotechnical Site Investigation

252332-01 (00)

NOVEMBER 2020





RSK GENERAL NOTES

Project No.: 252332-01 (00)



Title: Phase 2 Geo-environmental and Geotechnical Site Investigation: Browns Lane, Coventry


Client: Coventry City Council, Council house, Earl Street, Coventry, CV1 5RR

Date: 11th November 2020

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Status: Rev 00

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Revision control sheet

Revision reference	Date	Reason for revision
Rev 00	11 November 2020	First issue

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RSK Environment Ltd.

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1 INTRODUCTION

1.1 Commissioning

RSK Environment Limited (RSK) was commissioned by Coventry City Council to carry out a Phase 2 Geo-environmental and Geotechnical Site Investigation of the land off Browns Lane, Coventry, CV5 9EE. The project was carried out to an agreed brief as set out in RSK's proposal (Ref. 252332-T01 (00), dated February 2020).

This report is subject to the RSK service constraints given in Appendix A and limitations that may be described through this document.

1.2 Proposed development

The site in question is being considered for development for residential use. The planned layout of the site is shown in Appendix B.

1.3 Objectives

The objective of the work is:

- to identify any land contamination and/or geotechnical constraints to the proposed development and to support discharge of relevant planning conditions and relevant building control requirements
- to identify the need for any additional investigation or remediation works to demonstrate that the site is suitable for its proposed use

1.4 Scope of works

The scope of this assessment has been developed in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. The assessment of the contamination status of the site is in line with the technical approach presented in CLR 11 Model Procedures for the Management of Land Contamination (Environment Agency, 2004) and in general accordance with BS 10175: 2011 + A2 2017 (BSI, 2017). It is also compliant with relevant planning policy and guidance.

The scope of the intrusive investigation has been designed in line with the recommendations of BS5930: 2015 Code of practice for ground investigations (BSI, 2016), which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. It has also been developed in general accordance with BS 10175: 2011 + A2 2017. Ground gas assessment has been undertaken in general accordance with BS8756: 2013 and BS 8485:2015+A1:2019.

A brief summary of relevant legislation and policy relating to contaminated land is given in Appendix C.

The scope of works for the assessment has included the following:

- design and implementation of an intrusive investigation, in situ testing, soil sampling, laboratory geo-environmental and geotechnical testing, groundwater and ground gas monitoring of installed boreholes;
- interpretation of data to develop a refined conceptual site model (CSM);
- generic quantitative risk assessment (GQRA) to evaluate potentially complete contaminant linkages identified in the refined CSM;
- identification of the need for further action, e.g. supplementary intrusive investigations/ monitoring, remediation works or other mitigation, if any;
- interpretation of ground conditions and geotechnical data to provide preliminary recommendations with respect to foundations and infrastructure design;
- preliminary assessment of the potential waste classification (hazardous / non-hazardous) implications of soil arisings; and
- preparation of this factual and interpretative report with recommendations for further works (i.e. undertake a remedial options appraisal to identify appropriate mitigation measures/produce a remedial implementation and verification plan) and/or remediation as necessary.

1.5 Existing reports

The following reports detailing previous works at the site were made available for review:

- Mott MacDonald 'Browns Lane, Coventry: Geo-environmental Desk Study', dated September 2019; and
- Envirocheck 'Detailed Unexploded Ordnance (UXO) Threat & risk Assessment', ref.: 408215GI01, dated July 2018.

Pertinent information from these reports has been summarised in Section 2.

1.6 Limitations

The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.

Asbestos is often present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of the site indicates that asbestos may be present in soils and could be encountered during more extensive ground works.



Preliminary geotechnical recommendations are presented, and these should be verified in a Geotechnical Design Report once proposed construction and structural design proposals are confirmed.

2 SITE DETAILS

2.1 Site location

Site location details are presented in Table 1 and a site location plan is provided on Figure 1.

Table 1 Site location details

Site name	Land west of Browns Lane
Full site address and postcode	Browns Lane, Coventry, CV5 9EE
National Grid reference (centre of site)	430509, 282455

2.2 Site description

The site boundary and current site layout are shown on Figure 2. The site covers an area of c. 42.92 hectares and is currently used for both arable and pastoral farming practices.

2.3 Surrounding land uses

The site is located within Brownshill Green, Coventry, within a predominately residential setting. Immediate surrounding land uses are described in Table 2.

Table 2 Surrounding land uses

North	Residential dwellings with Hawkes Mill Lane and Wall Hill Road beyond
East	Browns Lane with residential dwellings beyond
South	RSPCA Coventry Branch, electrical substation and residential dwellings with Lyons Park industrial estate beyond
West	Coundon Wedge Drive with agricultural fields beyond

2.4 Development plans

The proposed layout of the site, at the time of preparing this report, is shown in Appendix B.

It is understood that the site is to be redeveloped into a residential led scheme with associated infrastructure and areas of public open space with a care home to the south-east of the site.

2.5 Existing Reports

2.5.1 Mott MacDonald – Geo-environmental Desk Study: Browns Lane, Coventry

Based on the information provided within the Phase 1 Desk Study report, it is understood that the site has always comprised a series of agricultural fields, with the addition and removal of various farm buildings and a wind pump over the years. Several ponds have also been present across the site as shown on various maps within the desk study, many of which, however, are no longer present today.

The desk study report lists the following as potentially significant sources of on-site contamination:

- The presence of generic made ground, particularly within the south-western corner of the site;
- Potential leaks and spill associated with farm machinery and fuel storage containers present on site;
- Pesticides and herbicides present associated with farming operations; and
- The historic ponds which may have been infilled or partially unfilled with organic materials or brick rubble.

Off-site sources of contamination include:

- The former garage recorded some 4m north east of the site, which held a record of diesel contamination;
- The electrical substation which borders the site to the south; and,
- The current and historical contamination associated with the industrial buildings for the automotive industry (Lyons Park and Brown Lane Works) situated between 200m and 700m south.

2.5.2 Envirocheck – Detailed Unexploded Ordnance (UXO) Threat & Risk Assessment

The site has been considered as low risk due to being situated within a rural area of Coventry. There is no evidence to suggest that a risk pathway existed between the proposed intrusive investigations and UXOs, therefore no specific risk mitigation measures were required on site.

3 SITE INVESTIGATION STRATEGY & METHODOLOGY

3.1 Introduction

RSK carried out intrusive investigation works between 2nd September and 18th September 2020, and subsequent monitoring of boreholes between 22nd September and 22nd October 2020.

3.2 Objectives

The specific objectives of the investigation were as follows:

- to establish the ground conditions underlying the site including the extent and thickness of any made ground
- to investigate specific potential sources of contamination identified in initial CSM
- to determine groundwater depth
- to determine the ground gas regime underlying the site
- to assess geotechnical properties of soils

3.3 Selection of investigation methods

The techniques adopted for the investigation were chosen with consideration of the objectives and site constraints, which are described below.

Cable percussion drilling was chosen based on the targeted drill depth, requirement for in-situ geotechnical data and the opportunity to collect both disturbed and undisturbed samples and install monitoring wells.

This was supplemented by mechanically excavated trial pitting to obtain a number of investigation locations and achieve greater visibility of any Made Ground, in addition, it allowed for infiltration testing to be undertaken.

Window sampling was also carried out to provide in-situ geotechnical data and the opportunity to install shallow gas and groundwater monitoring wells.

Prior to conducting intrusive works, utility service plans were obtained, and buried service clearance undertaken in line with RSK's health and safety procedures. Copies of statutory service records obtained by RSK are available upon request.

3.4 Investigation strategy

The ground investigation was carried out using intrusive ground investigation techniques in general accordance with the recommendations of BS5930: 2015 Code of practice for ground investigations, which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. Whilst every attempt was made to record full details of the strata encountered in the boreholes, techniques of hole formation and sampling will inevitably lead to disturbance, mixing or loss of material in some soils and rocks.

Details of the investigation locations, installations and rationale are presented in Table 3.

Table 3 Exploratory hole and monitoring well location rationale

Investigation type	Number	Designation	Monitoring well installation	Rationale examples below
Boreholes by cable percussive methods	3	BH1 to BH3	Gas/ groundwater	To prove the geological succession beneath the site and obtain geotechnical data
Boreholes by dynamic sampling methods	25	WS1 to WS25	Gas/ groundwater	To determine the contamination status of the ground beneath the site and to install additional dual-purpose groundwater and gas monitoring wells
Trial-pits excavated by mechanical excavator	43	TP1 to TP11 and TP15 to TP47	n/a	To accurately log the upper strata in targeted and non-targeted locations beneath the site and to collect samples from the shallow made ground soils.
Trial-pits excavated by mechanical excavator	5	SA1 to SA5	n/a	To accurately log the upper strata in targeted and non-targeted locations beneath the site and to facilitate in-situ infiltration drainage testing.

3.4.1 Implementation of investigation works

The exploratory holes were logged by an engineer in general accordance with the recommendations of BS 5930:2015 (which incorporates the requirements of BS EN ISO 14688-1, 14688-2 and 14689-1).

The monitoring well construction and associated response zones are detailed on the exploratory hole records in Appendix F. The response zones were installed to target identified gas generation sources detailed in the initial preliminary CSM carried out by Mott MacDonald.

The soil sampling and analysis strategy was designed to characterise each encountered soil strata, permit an assessment of the potential contaminant linkages identified and investigate the geotechnical characteristics. In addition, samples were taken to allow for geo-environmental and geotechnical testing to be undertaken.

Soils collected for laboratory analysis were placed in a variety of containers appropriate to the anticipated testing suite required. They were dispatched to the laboratory in cool boxes under chain of custody documentation. Samples were stored in accordance with the RSK quality procedures to maintain sample integrity and preservation and to minimise the chance of cross contamination.

3.5 Monitoring programme

3.5.1 Ground gas monitoring

In line with the initial CSM, response zones were installed to target the sources or pathways as detailed in the initial CSM carried out by Mott MacDonald. Dual gas taps were installed in line with BS8576.

Four monitoring rounds have been undertaken to provide data to support refining of the CSM. The number of monitoring rounds undertaken is in general accordance with the decision matrix presented as Figure 6 of BS8576.

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO₂), methane (CH₄) and oxygen (O₂) in percentage by volume, while hydrogen sulphide (H₂S) and carbon monoxide (CO) were recorded in parts per million.

Initial and steady state concentrations were recorded. The atmospheric pressure before and during monitoring, together with the weather conditions, were recorded. The monitoring included periods of falling atmospheric pressures and after/during rainfall.

All ground gas monitoring results together with the temporal conditions are contained within Appendix G. Equipment calibration certificates are available on request.

3.5.2 Groundwater monitoring and sampling

Four rounds of groundwater monitoring were undertaken on a weekly basis. The monitoring records, including dates, are shown in Appendix G.

Depths to groundwater were recorded using an electronic dip meter on each of the return monitoring visits.

3.6 Laboratory testing

Laboratory testing was undertaken at a UKAS accredited laboratory with ISO17025 and MCERTS accredited test methods were specified where applicable for contamination testing and as shown in the laboratory test certificates appended.

3.6.1 Chemical analysis of soil samples

The soil sampling strategy was designed to characterise made ground and/or natural strata typically within the upper 1.00m of the ground profile whilst also characterising deeper strata and the potential for contaminant migration from relevant sources identified within the preliminary CSM carried out by Mott MacDonald.

The programme of chemical tests undertaken on soil samples obtained from the intrusive investigation is presented in Table 4 with the laboratory testing results contained in Appendix I.

Table 4 Summary of chemical testing of soil samples

Tests undertaken	No. of tests
Soils	
Metals Suite – As, Cd, Cr, CrVI, Cu, Hg, Pb, Ni, Se, Zn	58
Asbestos Screen	37
Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG), BTEX, MTBE	32
Polyaromatic Hydrocarbons (PAHs)	34
pH	37
Total Organic Carbon	37
OCP and OPP Pesticides	15
Triazine Herbicides	15
Polychlorinated Biphenyls (PCBs)	1
Soil Leachates	
Metals Suite - As, Cd, Cr, CrVI, Cu, Hg, Pb, Ni, Se, Zn	37

3.6.2 Geotechnical analysis of soils

Where appropriate disturbed, bulk and undisturbed soil samples were taken for geotechnical classification testing with the depth and nature of samples detailed within the exploratory hole records.

Where appropriate, testing was undertaken in accordance with BS 1377:1990 Method of Tests for Soils for Civil Engineering Purposes or, where superseded, by the relevant part of BS EN ISO 17892:2014 Geotechnical investigation and testing - Laboratory Testing of Soil. Tests carried out in order to classify the concrete class required on-site have been undertaken following the procedures within BRE SD1:2005.

The programme of geotechnical tests undertaken on samples obtained from the intrusive investigation is presented in Table 5. The results and UKAS accreditation of tests methods are shown in Appendix J.

Table 5 Summary of geotechnical testing undertaken

Tests undertaken	No. of tests
Moisture content %	29
Liquid/ plastic limits	20
Quick undrained triaxial	5
BRE Sulphate Classification	20

3.6.3 Infiltration testing

Infiltration tests were carried out in trial pits SA1 to SA5 to establish the infiltration rate of the Thrussington Member. The tests were carried out generally in accordance with the



method described in BRE Digest 365 (BRE, 2016). This involved filling the pits with water from a tanker and recording the drop in water level with time as the water soaked into the ground.

Copies of the testing records are included in Appendix H.

4 SITE INVESTIGATION FACTUAL FINDINGS

The results of the intrusive investigation and subsequent geo-environmental and geotechnical laboratory analysis undertaken are detailed below.

4.1 Ground conditions encountered

The descriptions of the strata encountered, notes regarding visual or olfactory evidence of contamination, list of samples taken, field observations of soil and groundwater, in-situ testing and details of monitoring well installations are included on the exploratory hole records presented in Appendix F.

The exploratory holes revealed that the site is typically underlain by a variable thickness of topsoil, with some made ground present over Thrussington Member and Allesley Member encountered at depth. This appears to generally confirm the predicted stratigraphical succession detailed within the Mott MacDonald CSM. However, the Keresley Member was not encountered at the site, this is predicted to be underlying the Allesley Member.

For the purpose of discussion, the ground conditions encountered during the fieldworks are summarised in Table 6 with the strata discussed in subsequent subsections.

Table 6 General succession of strata encountered

Stratum	Exploratory holes encountered	Depth to top of stratum m bgl	Proven thickness (m)
Topsoil	All except TP43, TP44 and TP44A	Ground level	0.10m to 0.70m
Made Ground	TP43, TP44 and TP44A	Ground level	0.20m to 0.40m
Thrussington Member	All except TP44	0.10m to 0.70m	0.35m to 3.10m
Allesley Member	All except WS15, WS24, TP1, TP6, TP7, TP10, TP11, TP15, TP17 to TP19, TP24 to TP26, TP36, TP37, TP39, TP40, TP43 to TP44A and SA1 to SA5	0.55m to 3.15m	0.10m to 5.40m

4.1.1 Topsoil

Topsoil was generally encountered within all exploratory hole positions from ground level and proven to a maximum thickness of 0.70m. Typically, the thickness ranged between 0.10m and 0.40m.

This stratum comprised a mix of sands and silts, with occasional clays and frequent rootlets. In some instances, rare pieces of brick or ceramic were encountered at exploratory hole locations, however it has been assumed that these have been tracked onto site as part of the ongoing agricultural use.

4.1.2 Made Ground

This stratum was encountered from surface within three trial pit locations – TP43, TP44 and TP44A in proximity to the current barn on site and ranged in thickness between 0.20m and 0.40m. The made ground comprised dark brown and black slightly clayey gravelly sands with anthropogenic inclusions of brick, concrete, ceramics, ash, plastic and coal.

4.1.3 Thrussington Member

This stratum was typically encountered beneath either the made ground or the topsoil at a depth of between 0.10m and 0.70m bgl. The proven thickness ranged between 0.35m and 3.10m.

Generally, the Thrussington Member comprised firm to stiff brown and reddish-brown clays with frequent sand and gravel inclusions. The gravel fraction typically comprised chert, quartzite and rarer sandstone, siltstone and mudstone, presumably weathered from the below bedrock deposits. Occasional bands of reddish-brown clayey sands were also encountered, typically towards the south of the site (by Wall Hill Road).

A summary of the in-situ and laboratory test results recorded in the stratum are presented in Table 7.

Table 7 Summary of in-situ and laboratory test results for Thrussington Member

Soil parameters	Min. Value	Max. Value	Reference
Moisture content (%)	10	23	Appendix J
Modified moisture content (%)	11	23	Appendix J
Liquid limit (%)	28	62	Appendix J
Plasticity limit (%)	14	25	Appendix J
Plasticity index (%)	13	40	Appendix J
Modified plasticity index (%)	10.40	40	Appendix J
Plasticity term	Low	High	Appendix J
Volume change potential	Low	High	Appendix J
SPT 'N' values	8	>50	Appendix F
Undrained shear strength inferred from SPT 'N' values (kN/m ²)*	36	>225	Appendix F
Undrained shear strength measured by shear vane testing (kN/m ²)	48	140	Appendix F
Consistency term from field description	Soft	Very Stiff	Appendix F
Density term	Loose	Medium Dense	Appendix F
Notes: *derived using a Stroud Factor of 4.5.			

4.1.4 Allesley Member

This stratum was encountered at a depth of between 0.55m and 3.15m bgl and varies between 0.10m and 5.40m in thickness. Typically, the Allesley Member comprised a sequence of stiff friable red brown and brown clays with abundant gravel of sandstone, mudstone and siltstone, over either sandstone or mudstone which was commonly recovered as a sands or clayey gravel depending on the rock type.

In some instances, granular Allesley Member deposits were encountered, generally directly beneath the Thrussington Member. However, bands of cohesive and granular material were also encountered within a select few exploratory hole positions. Typically the granular material comprised red brown slightly silty gravelly sands, with the gravel fraction including sandstone, mudstone and siltstone.

A summary of the in-situ and laboratory test results recorded in the Allesley Member cohesive deposits are presented in Table 8 and granular deposits in Table 9.

Table 8 Summary of in-situ and laboratory test results for cohesive Allesley Member deposits

Soil parameters	Min. Value	Max. Value	Reference
Moisture content (%)	11	15	Appendix J
Modified moisture content (%)	15	16	Appendix J
Liquid limit (%)	32	40	Appendix J
Plasticity limit (%)	16	18	Appendix J
Plasticity index (%)	16	22	Appendix J
Modified plasticity index (%)	16	18.26	Appendix J
Plasticity term	Low	Intermediate	Appendix J
Volume change potential	Low		Appendix J
SPT 'N' values	12	>50	Appendix F
Undrained shear strength inferred from SPT 'N' values (kN/m ²)*	54	>225	Appendix J
Undrained shear strength measured by shear vane testing (kN/m ²)	106	110	Appendix F
Undrained shear strength measured by triaxial testing (kN/m ²)	204	230	Appendix J
Consistency term from field description	Firm	Very Stiff	Appendix F
Notes: *derived using a Stroud Factor of 4.5.			

Table 9 Summary of in-situ and laboratory test results for granular Allesley Member deposits

Soil parameters	Min. Value	Max. Value	Reference
SPT 'N' values	15	>50	Appendix F

Soil parameters	Min. Value	Max. Value	Reference
Density term	Medium dense	Dense	Appendix F

4.1.5 Visual/olfactory evidence of soil contamination

No evidence of gross contamination was noted within the soils, only the presence of generic made ground particularly in proximity to the barn identified in TP43, TP44 and TP44A

No visual pieces of asbestos were encountered during the investigation.

4.2 Groundwater

4.2.1 Groundwater encountered during intrusive works

Groundwater was encountered during the intrusive investigation works as detailed on the logs in Appendix F. However, was limited to WS3 which encountered a seepage at 2.00m bgl, all other exploratory holes remained dry.

4.2.2 Groundwater encountered during monitoring

Rest groundwater levels recorded during the monitoring programme are summarised in Table 10 based on the data provided in Appendix G. Field data measurements are also shown in Appendix G.

Table 10 Summary of groundwater monitoring results

Monitoring well	Response zone stratum	Depth to water (m bgl)
BH1	Thrussington Member / Allesley Member	Dry – 5.74
BH2	Thrussington Member / Allesley Member	4.44 - 4.96
BH3	Thrussington Member / Allesley Member	Dry – 3.35
WS2	Thrussington Member	Dry – 1.31
WS4	Thrussington Member / Allesley Member	Dry – 2.84
WS11	Allesley Member	1.94 – 2.89
WS12	Thrussington Member / Allesley Member	Dry – 2.16
WS14	Thrussington Member	Dry – 1.03
WS16	Thrussington Member / Allesley Member	0.67 – 2.77

Monitoring well	Response zone stratum	Depth to water (m bgl)
WS21	Thrussington Member / Allesley Member	Dry
WS24	Thrussington Member	0.83 - 1.50
WS25	Allesley Member	Dry – 3.54

It should be noted that groundwater levels might fluctuate for a number of reasons including seasonal variations. On-going monitoring would be required to establish both the full range of conditions and any trends in groundwater levels.

4.2.3 Visual/olfactory evidence of groundwater contamination

No visual or olfactory evidence of groundwater or surface water (ponds on site) contamination was noted.

4.3 Chemical laboratory results

The soil testing results are presented in Appendix I.

Asbestos was not detected within any of the 37no. samples screened.

4.4 Geotechnical laboratory results

The results of the geotechnical testing are discussed in Section 7 and presented in Appendix J.

4.5 Ground gas monitoring

The results of the ground gas monitoring and testing carried out are given in Appendix G and discussed in section 5.4.

5 GEO-ENVIRONMENTAL ASSESSMENT

5.1 Refinement of initial CSM

Potentially complete contaminant linkages with a potential risk of medium to low identified within the initial CSM undertaken by Mott MacDonald as requiring further consideration, are as follows:

- Direct contact with contaminated / made ground soils by future site users;
- Migration and accumulation of ground gases from made ground deposits (historic ponds etc) affecting future site users and future buildings and services; and
- Vertical and lateral migration of potentially contaminated made ground soils / off-site land uses (both present and historical) affecting controlled waters and surface waters.

The initial CSM within the Mott MacDonald report noted the presence of a former garage recorded some 4m north east of the site, where it was noted that a fuel leak had occurred in the past into groundwater within the Salop Formation likely around 14m bgl. In regard to the site, this might be considered a risk if it could result in an indoor vapour inhalation pathway to buildings. The current development plan designates the site area in the proximity of the former garage to be Public Open Space and as such inhalation pathways are unlikely to be present. In addition Trial pits advanced within the vicinity of the area have not indicated there to be any evidence of hydrocarbons in shallow soils and as such direct contact pathways are also unlikely to be present. The linkage from this offsite source is therefore considered to be incomplete and no further assessment is considered necessary.

The initial CSM envisaged that the site would have some localised made ground deposits from on-site activities with the Thrussington Member superficial deposits beneath. At depth the Salop Formation was predicted which comprises both the Keresley and Allesley Member. The site investigation established all of the above, with the addition of an agricultural topsoil overlying the Thrussington Member across the majority of the site. The Keresley Member was not encountered at the site.

A maximum thickness of 0.40m of made ground was established at the site and was limited to three exploratory hole locations (TP43, TP44 and TP44A), all of which are located around the operational barn. Visual or olfactory evidence of potential gross contamination was not encountered at the site.

Based on the above, no potentially complete pollutant linkages have been added or removed from the preliminary CSM.

5.2 Linkages for assessment

In line with CLR11 (Environment Agency, 2004), there are two stages of quantitative risk assessment, generic (GQRA) and detailed (DQRA). The GQRA comprises the comparison of soil, groundwater, soil gas and ground gas results with generic assessment criteria (GAC) that are appropriate to the linkage being assessed. This comparison can be undertaken directly against the laboratory results or following statistical analysis depending upon the sampling procedure that was adopted.

Following the refinement of the initial CSM, the potentially complete contaminant linkages that require further assessment and the methodology of assessment are presented in Table 11.

Table 11 Linkages for GQRA

Potentially relevant contaminant linkage	Assessment method
Soil	
1. Oral, dermal and inhalation exposure with impacted soil, soil vapour and dust by future residents	Human health GAC in Appendix K for a proposed residential end use with home-grown produce since the proposed end use includes residential gardens across the majority of the site. In addition, the human health GAC for public open space in close proximity to residential dwellings is presented in Appendix L, which relates to the residential care home and public open space on site.
2. Inhalation exposure of future residents to asbestos fibres	Qualitative assessment based on the asbestos minerals present, their form, concentration, location and the nature of the proposed development.
3. Contaminants permeating potable water supply pipes	Comparison of soil data to GAC in Appendix M for plastic water supply pipes using UKWIR (2010) guidance.
4. Leaching of soil contaminants and dissolved phase migration	Comparison of leachate data to the relevant GAC in Table 1 of Appendix N.
Ground Gas	
5. Concentrations of methane and carbon dioxide in ground gas entering and accumulating in enclosed spaces or small rooms in new buildings, which could affect future site users. For methane this could create a potentially explosive atmosphere, while death by asphyxiation could result from carbon dioxide.	Gas screening values (GSV) have been calculated using maximum methane and carbon dioxide concentrations with maximum flow rates recorded in individual wells at the site. The GSV have been compared with the revised Wilson and Card classification presented in BS8485.

5.3 Methodology and assessment of soil results

The analysis of laboratory results relating to soil samples submitted for testing, including leachate analysis, is included in the following sections.

5.3.1 Oral, dermal and inhalation exposure with impacted soil by future site users

The site is being considered for various aspects of development, largely comprising areas of residential dwellings, as well as a 3-storey residential care home and public open spaces. Based on this, different critical receptors have been selected in accordance with the different types of developments. The proposed development plan is presented in

Appendix B, and the proposed development in regard to the site investigation exploratory hole plan is presented as Figure 5.

5.3.1.1 Area A – Low rise residential dwellings

Area A covers the majority of the west of the site and comprises low-rise residential dwellings with associated private gardens and other infrastructure. Based on the proposed development, the critical receptor is defined within SR3 as a 0 to 6-year old female.

All results have been compared with the residential with home grown produce GAC which is presented in Appendix K. A soil organic matter (SOM) of 1% has been selected as a conservative means of assessment. The soil screening output spreadsheet is presented as Appendix O.

No exceedances have been noted against the relevant GACs within Area A, therefore it is considered that a complete contaminant linkage is not associated with the soils within Area A in regards to the proposed residential end use.

5.3.1.2 Area B – Residential care home and public open spaces

Area B is split into the south west of the site which comprises the three-storey residential care home and the north east which comprises the public open space.

Based on the proposed development for this part of the site, the critical receptor is considered to be a female child between the ages of 3 and 9 years old. Due to the conservative nature of the assessment, this has also been considered for the residential care home also as a sole set of GACs does not yet exist for care homes.

All results have again been screened against a soil organic matter (SOM) of 1%. The soil screening output spreadsheet is presented as Appendix P.

One exceedance has been noted in TP40 at 0.30m bgl which is situated on the eastern site boundary. The exceedance is recorded against arsenic which has a GAC of 79mg/kg and a value of 176mg/kg was recorded within the sample. All other samples fall below the relevant GAC for public open space.

The soils encountered within TP40 are considered to be natural, with no evidence of gross contamination nor any anthropogenic inclusions and therefore could be an anomalous highly localised impact possibly due to the sample locations close proximity to the nearby road.

In order to determine whether this anomalous result may be highly localised, RSK returned to site to carry out delineation hand pitting around the aforementioned TP40 by collecting samples from both the topsoil and subsoil at positions adjacent to the original trial pit and at 2m, 5m and 10m spacing. The sampling locations in relation to TP40 are presented in Figure 4.

The results of the screening for the additional hand pits is included within Appendix P. These results showed no exceedances against arsenic, nor any further heavy metals.

Although the exceedance is relatively high in comparison to the suggested background conditions (32mg.kg), the location showed no sign of anthropogenic material and the site has remained as a greenfield used solely for animal grazing, therefore this result should

be considered anomalous and is unlikely to represent a significant risk to end users of the public open space.

It is considered that no specific remediation of this area is required however we would recommend that a nominal thickness of topsoil (150mm) is laid in the area immediately surrounding TP40.

5.3.2 Inhalation exposure of future occupants/site users to asbestos fibres

The visual inspection at the laboratory identified no materials suspected of potentially containing asbestos and the scheduled laboratory screening for asbestos found no detectable asbestos fibres within the samples of made ground or natural material.

5.3.3 Impact of organic contaminants on potable water supply pipes

For initial assessment purposes, the results of the investigation have been compared with the GAC presented in Appendix M for this linkage, which are reproduced from *UKWIR Report 10/WM/03/21. Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites* (UKWIR, 2010).

The results indicate that a relevant linkage is unlikely to exist associated with organic contaminants and therefore pollutant polyethylene (PE) and/or polyvinyl chloride (PVC) water supply pipes are expected to be suitable for use on the development.

It should be noted that at the time of this investigation the future routes of water supply pipes had not been established, hence the investigation and sampling strategy may not be fully compliant with UKWIR recommendations. Consequently, a targeted investigation and specific sampling/analytical strategy may be required at a later date once the route(s) of the supply pipe(s) are known. In addition, it is recommended that the relevant water supply company be contacted at an early stage to confirm its requirements for assessment, which may not necessarily be the same as those recommended by UKWIR.

5.3.4 Leaching of contaminants and dissolved phase migration

The soil leachate results found to exceed the GAC presented in Appendix N are summarised in Table 12.

Table 12 Summary of soil leachate GQRA results with respect to controlled waters

Determinand	No. tested	GAC (µg/l)	Exceedances	Maximum (µg/l), Locations
Freshwater EQS				
Copper	37	1	36	All samples except for TP41. Concentrations exceeding range between 2µg/l and 48µg/l
Chromium	37	8.1	1	18µg/l in WS4 at 0.40m bgl
Lead	37	1.2	34	All samples except for WS2, TP34 and TP41. Concentrations exceeding range between 4µg/l and 22µg/l
Mercury	37	0.07	37	All samples with concentrations at laboratory limit of detection <0.1µg/l
Nickel	37	4	22	All samples except for TP3, TP7, TP16, TP17, TP30, TP34, TP41, WS2, WS3, WS7, WS11, WS14, WS23 and BH2. Concentrations exceeding range between 5µg/l and 18µg/l
Zinc	37	10.9	31	All samples except for TP16, TP34, TP41, WS2, WS14 and BH2. Concentration exceeding range between 12µg/l and 300µg/l
UK DWS				
Arsenic	37	10	1	13 µg/l in WS24 at 0.20m bgl

Table 12 indicates exceedances of the GAC (comprising Environmental Quality Standards (EQS) for freshwater) have been identified in soil leachate samples for Copper, Chromium, Lead, Mercury, Nickel, Zinc and Arsenic.

Table 12 indicates exceedances of the GAC in soil leachate samples are present for several heavy metals when compared against both the Freshwater EQS and the UK DWS. It should be noted that no adjustment has been made for bioavailability using the MBAT tool and as such the GACs for copper, lead, nickel and zinc can be considered as highly conservative.

The majority of these samples were of natural strata and as such any source of heavy metals is likely to be naturally occurring rather than being as a result of contaminative activities.

In order to further evaluate the on-site soils as a potential source of leachable heavy metals, the British Geological Survey (BGS) publication “Normal background concentrations (NBCs) of contaminants in English soils: final project report (CR/12/035N)” (2012), has been used to provide an indication of typical background concentrations of copper and lead.

The sample taken from TP40 at 0.30m bgl has been removed from the dataset for this comparison as it is considered an anomalous result and would not be considered as a significant source as discussed in Section 5.3.1.

Typical background concentrations for the metal compounds identified within the leachate data are summarised within Table 13.

Table 13 Summary of typical soil background concentrations for the aforementioned elevated contaminants.

Metal	BGS Normal Background Concentration (mg/kg)	Soil range (mg/kg)	Mean soil concentration (mg/kg)	Samples above BGS Normal Background Concentrations (depth/concentration)
Arsenic	32	<1 - 7	1.18	None identified
Chromium	-	16 - 47	23.79	-
Copper	62	8 – 56	17.09	None identified
Lead	180	10 - 495	42.89	1 – TP47 (0.3m/495mg/kg)
Mercury	0.5	<0.17 – 0.49	0.17	None identified
Nickel	42	11 – 37	17.86	None identified
Zinc	-	29 -729	78.72	-

The comparison of the leachate results with the typical background concentrations of Arsenic, Copper, Lead, Mercury and Nickel show that the results are generally consistent with typical background concentrations.

There is 1 no. exceedance of the typical background concentration of Lead, however the average concentration of is 42.89mg/kg, is well below the BGS normal background concentration of 180mg/kg.

There is no BGS normal background concentration for zinc, however the comparison of the other metal concentrations against background has indicated that leachable metal concentrations across the site as a whole are not elevated above normal. Therefore, it is considered that a significant source of leachable heavy metals has not been identified at the site and that the soils do not pose a significant risk to surface waters through leaching and migration.

5.4 Ground gas risk assessment

5.4.1 Appropriate guidance

The risks to development from ground gases have been assessed in accordance with BS8485:2015, which provides guidance on ground gas (methane and carbon dioxide) characterisation and hazard assessment, as well as a framework for the prescription of protection measures within new buildings.

The process involves characterising the gas hazard from combining the qualitative assessment of risk (using the conceptual site model) with ground investigation data so that a 'characteristic situation' (CS) can be derived for the site. Characteristic situations range from CS1 to CS6, the higher the CS the higher the hazard potential. Protection measures within new buildings can be prescribed using a point scoring system, taking into consideration the CS and the proposed building type.

BS8485 indicates that the gas hazard can be characterised using the following methods:

- an empirical semi-quantitative approach using gas monitoring data to determine the 'characteristic situation' of the site (or zones of the site) and subsequent protective measures (Wilson and Card approach).
- an empirical semi-quantitative approach using TOC data to determine the 'characteristic situation' of the site (or zones of the site) and subsequent protective measures (CL:AIRE RB17 approach), or
- detailed quantitative assessment methodologies.

For the purpose of this assessment, first approach listed above has been used to characterise the gas hazard and provide advice on the protective measures likely to be required within new buildings at the site.

5.4.2 Summary of the refined conceptual site model for ground gas

In the assessment of risks and selection of appropriate mitigation measures, BS8485 highlights the importance of the conceptual model. In summary, potential sources of ground gas within influencing distance of the site identified in section 6.2 comprise:

- made ground [established up to 0.40m bgl] – the limited depth of the made ground is such that it will have a very low potential for gas generation.

Pathways and receptors for ground gas were identified in section 6.2.

This assessment has been undertaken to assess risks to building structures and proposed end users. The assessment has not taken into consideration the health and safety of construction workers. Risks may still be present to construction workers especially where works include the entry into excavations within the ground. Construction workers should undertake appropriate risk assessments and risks should be managed through health and safety procedures and safe systems of work.

The risk assessment has been undertaken based on the current understanding of the CSM.

5.4.3 Empirical semi-quantitative approach using borehole monitoring data (Wilson and Card approach)

5.4.3.1 Permanent gases – methane and carbon dioxide

The empirical semi quantitative approach using gas monitoring data is based on calculations of the gas screening value (GSV). BS8485 defines the GSV as the 'flow rate (l/hr) of a specific hazardous gas representative of a site or zone, derived from assessment of borehole concentration and flow rate measurements and taking account of all other influencing factors, in accordance with a conceptual site model'.

Once derived for both methane and carbon dioxide the GSVs are compared to the thresholds presented in Table 2 of BS8485, so that a CS can be determined for the site, or a zone. It is important to note that the GSV thresholds are guideline values and not absolute. The GSV thresholds may be exceeded in certain circumstances, if the site conceptual model indicates it is safe to do so. Similarly, consideration of additional factors such as very high concentrations of methane, should lead to consideration of the need to adopt a higher risk classification than the GSV threshold indicates.

The results of the ground gas monitoring and testing undertaken at the site are given in Appendix G.

The maximum results recorded are presented in Table 14.

The range of atmospheric pressure over the four monitoring rounds completed was 992 to 1012 mbar and this was recorded to be falling at the time of one round.

Table 14 Summary of ground gas monitoring results

Borehole	Response zone/ stratum	Number of monitoring visits	Max. Methane (%)	Max. Carbon dioxide (%)	Min. Oxygen (%)	Steady State Flow rate (l/hr)	Water level (m bgl)	Atmospheric pressure (mbar)
BH1	TM / AM	4	0	2.8	17.8	0.2	Dry – 5.74	992 - 1012
BH2	TM / AM	4	0	1.8	5.3	0.3	4.44 - 4.96	992 - 1011
BH3	TM / AM	4	0	1.7	14.9	0.3	Dry – 3.35	992 - 1010
WS2	TM	4	0	0.9	17.9	0.1	Dry – 1.31	992 - 1011
WS4	TM / AM	4	0	2.9	17.4	0.1	Dry – 2.84	993 - 1011
WS11	AM	4	0	4.5	16.6	0.2	1.94 – 2.89	992 - 1012
WS12	TM / AM	4	0	2.7	16.9	0.1	Dry – 2.16	992 - 1011
WS14	TM	4	0	1.1	16.1	4.8	Dry – 1.03	992 - 1011
WS16	TM / AM	4	0	1.3	16.3	4.6	0.67 – 2.77	992 - 1011
WS21	TM / AM	4	0	3.4	14.9	0.3	Dry	992 - 1011

Borehole	Response zone/ stratum	Number of monitoring visits	Max. Methane (%)	Max. Carbon dioxide (%)	Min. Oxygen (%)	Steady State Flow rate (l/hr)	Water level (m bgl)	Atmospheric pressure (mbar)
WS24	TM	4	0	3.1	15.7	0.3	0.83 - 1.50	992 - 1010
WS25	AM	4	0	1.8	18.3	0.3	Dry – 3.54	992 -1011

BS8485 suggests that the GSV should be derived by multiplying the worse credible (worst case) recorded flow value in any standpipe in that strata or zone with the maximum gas concentration in any other standpipe in that strata or zone. Further guidance is given in BS8485 section 6.3.

A spreadsheet showing the calculated hazardous gas flow rates per borehole is provided in Appendix R. Considering the assessment of the gas monitoring results the following maximum GSVs have been derived for the site.

- methane GSV (0 l/hr) = methane concentration (0 % v/v)/100 x flow rate (4.8 l/hr)
- Carbon Dioxide GSV (0.216 l/hr) = carbon dioxide concentration (4.5 % v/v)/100 x flow rate (4.8 l/hr).

Based on these derived GSVs the site would be determined as CS2. The assessment however is biased by high flow rates detected within WS14 and WS16, the logs for these two monitoring wells indicate that they are installed within naturally occurring clays and not within or close to any potential gas sources. Further consideration therefore has been given to assessing each well individually due to the lack of a credible gas source on site based on the data presented in Appendix R. This demonstrates that none of the boreholes had maximum GSVs above 0.02. On this basis the site would classify as CS1 and no gas protection measures are considered necessary.

5.4.3.2 Trace gases

Carbon monoxide was measured in concentrations up to 65ppm within BH1 and BH2 during monitoring rounds one and two. As there is no identified credible source it is considered that these concentrations were the result of oxygenation of the soils caused by the installation of the well which resulted in a surge in microbial activity and does not represent a risk to the future site users.

5.4.4 Implications

Based on the current understanding of the conceptual site model and the assessment undertaken, the site has been classified as CS1. Considering the foregoing and in accordance with BS8485, ground gas protective measures are not considered necessary within proposed buildings.

6 PRELIMINARY WASTE ASSESSMENT

In accordance with the definition provided in the Waste Framework Directive (WFD), materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded, by the holder'. Naturally occurring soils are not considered waste if reused on the site of origin for the purposes of development. Soils such as made ground that are not of clean and natural origin (irrespective of whether they are contaminated or not) and other materials such as recycled aggregate, do not become waste until the criteria above are met. Further background information is provided in Appendix E.

Excavation arisings from the development may therefore be classified as waste if surplus to requirements or unsuitable for reuse. The following assessments assume the material tested is classified subsequently as waste.

RSK recommends that a Sampling Plan be prepared to support any waste classifications and hazardous waste assessments, prior to any material being excavated. Given the level of data obtained, scale of the development and heterogeneity of the site soils, the following assessment should be considered indicative and further assessment should be undertaken following the preparation of a waste sampling plan.

6.1 Hazardous waste assessment

Technical Guidance WM3 (EA, 2018) sets out in Appendix D requirements for waste sampling. It is a legal requirement to correctly assess and classify waste. The level of sampling should be proportionate to the volume of waste and its heterogeneity. The preliminary assessment provided below is based only upon the available sample results and may not be sufficient to adequately classify the waste.

6.1.1 Chemical contaminants

Envirolab, an RSK company, has developed a waste soils characterisation assessment tool (HASWASTE), which follows the guidance within Technical Guidance WM3. The analytical results have been assessed using this tool to assess the hazardous properties to support potential off-site disposal of materials in the future. Note that it is ultimately for landfills to confirm what wastes they are able to accept within the constraints of their permit.

No samples were found to have hazardous properties based on this assessment. This suggests that if applicable the waste would require disposal at a suitably permitted inert or non-hazardous waste landfill. Though it should be noted that WAC testing would be required to enable disposal of natural soils as inert.

6.1.2 Asbestos within waste soils

Technical Guidance WM3 requires that within a mixed waste the separately identifiable wastes be assessed separately.

For instance, where waste soil contains identifiable pieces of asbestos (visible to the naked eye) the asbestos should, where feasible, be separated from the soil and classified



separately. This should be disposed of within a hazardous, stable non-reactive hazardous waste landfill or a special cell in a non-hazardous waste landfill.

Samples of potential asbestos containing material were collected from site and analysed for the presence of asbestos, the results of which are presented in Appendix I. Analysis confirmed that asbestos was not present within any of the 37no. samples submitted, and nor was any visible asbestos containing material identified on-site.

7 GEOTECHNICAL ASSESSMENT

7.1 Proposed development

It is understood that the proposed development is to involve the construction of residential properties and associated infrastructure across much of the west of the site, as well as a three-storey residential care home across the south east. At this stage no specific information relating to the residential building loads has been provided and therefore a wall loading of 100 kN/m has been considered for the residential properties. It has been assumed the ground-bearing floor slabs will not be required for the residential properties and that beam and block flooring will be utilised. In addition, no proposed loads have been provided in regard to the care home development.

7.2 Geotechnical hazards assessment

A summary of commonly occurring geotechnical hazards associated with the anticipated geology outlined in Section 4.1 above is given in Table 15 together with an assessment of whether the site may be affected by each of the stated hazards.

Table 15 Summary of preliminary geotechnical risks that may affect site

Hazard category	Hazard status based on ground conditions encountered and proposed development		Engineering considerations if hazard affects site
	Potential present on site	Not identified at the site	
Sudden lateral changes in ground conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Shrinkable clay soils	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design to NHBC Standards Chapter 4 or similar
Highly compressible and low bearing capacity soils, (including peat and soft clay)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Silt-rich soils susceptible to rapid loss of strength in wet conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Running sand at and below water table	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Karstic dissolution features (including 'swallow holes' in Chalk terrain)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	May affect ground engineering and foundation design and construction – refer to Section 4.1.2

Hazard category	Hazard status based on ground conditions encountered and proposed development		Engineering considerations if hazard affects site
	Potential present on site	Not identified at the site	
Evaporite dissolution features and/or subsidence	<input type="checkbox"/>	<input checked="" type="checkbox"/>	May affect ground engineering and foundation design and construction
Ground subject to or at risk from landslides	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Likely to require special stabilisation measures
Ground subject to periglacial valley cambering with gulls possibly present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Ground subject to or at risk from coastal or river erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Likely to require special protection/stabilisation measures
High groundwater table (including waterlogged ground)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	May affect temporary and permanent works
Rising groundwater table due to diminishing abstraction in urban area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	May affect deep foundations, basements and tunnels
Underground mining	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Likely to require special stabilisation measures
Effects of extreme temperature (e.g. cold stores or brick kilns/furnaces)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Existing sub-structures (e.g. tunnels, foundations, basements, and adjacent sub-structures)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Filled and made ground (including embankments, infilled ponds and quarries)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Likely to affect ground engineering and foundation design and construction
Adverse ground chemistry (including expansive slags and weathering of sulphides to sulphates)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	May affect ground engineering and foundation design and construction
Site topography	<input checked="" type="checkbox"/>	<input type="checkbox"/>	May affect ground engineering and foundation design and construction
Note: Seismicity is not included in the above table as this is not normally a design consideration in the UK.			

7.3 Foundations

7.3.1 Foundation options

The exploratory holes revealed that the site is generally underlain by a variable thickness of topsoil or made ground (locations limited to TP43, TP44 and TP44A). The maximum thickness of made ground encountered was 0.40m. Competent superficial Thrussington Member deposits were generally encountered beneath the made ground and/or topsoil at a top depth of between 0.10m and 0.70m bgl. Allesley Member bedrock deposits were also encountered at depths of between 0.55m to 3.15m.

The made ground is not considered an appropriate founding stratum in its current condition without prior treatment.

Typically, the Thrussington Member deposits comprise cohesive clay material with subordinate bands of sands and gravels. SPT values range between $n=8$ and $n=>50$ at 1.20m bgl and $n=16$ and $n=>50$ at 2.00m bgl. Shear strength values were also recorded at varying depths through this stratum, with several trial pits at depths of between 1.20m and 1.80m with values greater than 70KPa. Typically, strength changes in the Thrussington Member occurred around the 1.50m bgl, becoming firm to stiff or stiff.

The Allesley Member comprised a sequence of stiff friable red brown and brown clays with abundant gravel of sandstone, mudstone and siltstone. There is only one location in which Allesley Member is encountered at 1.20m bgl (within WS22), which has an SPT n value of 16. At 2.00m bgl, the SPT n value ranges between 12 and >50 .

Both the Thrussington Member and Allesley Member are considered appropriate founding strata, with the use of traditional spread footings or pad foundations.

7.3.2 Spread foundations

The recommendations for the design and construction of spread foundations in relation to the ground conditions are set out in Table 16.

Table 16 Design and construction of spread foundations

Design/construction considerations	Design/construction recommendations
Founding stratum	Thrussington Member or Allesley Member
Depth	Foundations should be taken to a minimum depth of 1.00m below the final or existing ground level, whichever is lower, and at least 0.2m into the founding stratum below any overlying made ground or to any greater depth required in respect of the special design considerations given below.
Special design considerations	

Design/construction considerations	Design/construction recommendations
Shrinkable soils	<p>Owing to the presence of shrinkable clay soils, foundations should be designed taking into account all the normal precautions, including minimum founding depths, to minimise the risk of future foundation movements in accordance with NHBC standards or similar.</p> <p>The findings of the ground investigation indicate that foundations should be designed for shrinkable soils of medium volume change potential.</p> <p>Mature trees and hedgerows are present on site, it is unknown at this time whether all/some of these trees and hedgerows are to be retained or removed. Consideration of the vegetation and its location in relation to the proposed development will need to be made during design of foundations and floor slabs.</p>
Variable founding soils	<p>Owing to the significant lateral and vertical variability of the founding strata, consideration should be given to incorporating appropriate reinforcement into the strip foundations to minimise the risk of future differential foundation movements.</p>
Presumed bearing capacity	<p>Strip foundations with a width of up to 1.0m and constructed on the Thrussington Member or Allesley Member at a minimum depth of 1.20 m bgl may be designed using a presumed bearing capacity of 115kN/m².</p> <p>Strip foundations with a width of up to 1.0m and constructed on the Thrussington Member or Allesley Member at a minimum depth of 2.00 m bgl may be designed using a presumed bearing capacity of 250kN/m².</p> <p>Pad foundations with a width of up to 1.50m and constructed on the Thrussington Member or Allesley Member at a minimum depth of 1.20 m bgl may be designed using a presumed bearing capacity of 135kN/m².</p> <p>Pad foundations with a width of up to 1.50m and constructed on the Thrussington Member or Allesley Member at a minimum depth of 2.00 m bgl may be designed using a presumed bearing capacity of 250kN/m².</p> <p>The presumed bearing capacity includes a partial factor on bearing resistance of 2 (coarse soils) / 3 (fine soils) against bearing capacity failure. Total settlements associated with the presumed bearing pressure are anticipated to be less than 25 mm.</p>
Construction considerations	<p>All foundation excavations should be inspected, and any made ground and soft, organic or otherwise unsuitable materials removed and replaced with mass concrete.</p> <p>The proposed founding stratum is a relatively silt-rich soil, hence susceptible to rapid softening once exposed. Hence all foundation excavations should immediately be blinded with concrete or the full foundation constructed.</p>

7.3.3 Desiccation of site soils

Possible desiccation of on-site soils has been noted within a select few exploratory hole locations. This is generally as a result of proximity to mature vegetation such as large trees or hedgerows, and generally a deep or no recorded groundwater table.

Signs of desiccation have been noted in the following exploratory holes, based upon the laboratory results:

- SA4;
- TP20;
- TP28;
- TP30;
- TP31; and,
- WS20.

Although these exploratory holes have shown signs of desiccation, potential onset of desiccation was noted in many locations with strata recorded as friable or desiccated as presented on the exploratory hole records.

It is believed that these locations may not be truly desiccated due to the presence of surface water ponds near to SA4, TP30, TP31 and WS20. However, this part of the site is used extensively for crop growing, and was recently harvested prior to the site investigation, therefore relatively little moisture may be present in the underlying soils.

TP20 is situated to the north of the site, at the bottom of the hill, and anecdotal evidence as well as aerial imagery of the site show this area to be regularly flooded. Albeit, presence of a mature tree in the vicinity of TP20, it is considered again unlikely that this location is truly desiccated.

7.3.4 Floor slabs

The nature of the soils encountered during the investigation indicates that ground bearing floor slabs may be adopted with a suitable sub-base layer for the proposed residential development.

All formation levels should be proof-rolled and all topsoil and any other loose, soft, organic or otherwise unsuitable materials should be removed and replaced with well-compacted, suitable granular fill.

In regard to the care home facility, no proposed loads have been provided, neither any proposed floor slab designs.

The sub-grade soil conditions beneath the footprint of the proposed buildings comprise topsoil over Thrussington Member with Allesley Member at depth.

Therefore, ground bearing floor slabs will be appropriate, and a California bearing ratio (CBR) of 3% is recommended for design purposes. Careful examination and rolling of the formation, and replacement of exceptionally hard and soft material with well compacted, suitable granular fill will be necessary.

7.4 Roads and hardstanding

In the 1.0 m to 1.5 m below the proposed finished ground level the exploratory holes have revealed a soil profile comprising topsoil or limited made ground over Thrussington Member and Allesley Member at depth. The potentially poorest sub-grade material within this profile is the made ground.

In pavement design terms, the groundwater conditions are anticipated to comprise a low water table, i.e. at least 1 m below the pavement formation level.

The estimated minimum, equilibrium soil-suction, California bearing ratio (CBR) value for the soils and groundwater conditions described above under a completed pavement is 3%, based upon Table C1 in TRRL (1984) Report LR1132.

The results of in-situ testing are summarised in Table 17.

Table 17 Summary of CBR values derived from in-situ DCP tests

Test location	Stratum	Material type	Minimum CBR value determined at or just below anticipated formation level
SA1	TM	Sandy CLAY with occasional gravel	8.5%
SA2	TM	Sandy CLAY with occasional gravel	6%
SA3	TM	Sandy CLAY with abundant gravel	7.2%
SA4	TM	Slightly sandy CLAY with occasional gravel and silt	3.8%
SA5	TOP	Sandy SILT with occasional gravel	13%
TP2	TM	Slightly gravelly sandy CLAY	6%
TP4	TM	Slightly gravelly sandy CLAY	7.2%
TP5	TM	Slightly gravelly slightly sandy CLAY	7.2%
TP6	TM	Slightly gravelly SAND	4.8%
TP7	TM	Slightly gravelly slightly clayey SAND	6%
TP8	TM	Slightly gravelly sandy CLAY	10%
TP9	TM	Gravelly sandy CLAY	7.2%
TP10	TM	Sandy slightly gravelly CLAY	4.8%
TP11	TM	Slightly gravelly slightly sandy CLAY	6%
TP15	TM	Slightly silty slightly gravelly slightly clayey SAND	7.2%
TP16	TM	Sandy CLAY with occasional gravel	15%
TP17	TM	Sandy CLAY with abundant gravel	6%
TP18	TM	Gravelly slightly sandy CLAY	6%
TP19	TM	Slightly gravelly slightly silty SAND	6%

Test location	Stratum	Material type	Minimum CBR value determined at or just below anticipated formation level
TP20	TM	Slightly sandy slightly gravelly to gravelly CLAY	4.8%
TP21	TM	Slightly gravelly clayey SAND	3.8%
TP22	TM	Slightly gravelly clayey SAND	4.8%
TP23	TM	Sandy CLAY with occasional gravel	6%
TP24	TM	Slightly gravelly sandy CLAY	6%
TP25	TM	Slightly gravelly slightly silty slightly clayey SAND	7.2%
TP26	TM	Slightly gravelly slightly clayey SAND	4.8%
TP27	TM	Gravelly slightly silty SAND	8.5%
TP28	TM	Slightly gravelly clayey SAND	10%
TP29	TM	Sandy CLAY	6%
TP30	TM	Sandy CLAY	8.5%
TP31	TM	Gravelly sandy CLAY	39% and 34%
TP32	TM	Slightly gravelly to gravelly slightly clayey SAND	6%
TP33	TM	Slightly gravelly to gravelly slightly clayey SAND	6%
TP34	TM	Slightly gravelly slightly sandy CLAY	6%
TP35	TM	Sandy CLAY with occasional gravel	4.8%
TP36	TM	Gravelly slightly silty slightly clayey SAND	10%
TP37	TM	Slightly gravelly slightly clayey to clayey SAND	3.8%
TP40	TM	Gravelly slightly clayey SAND	6%
TP41	TM	Slightly gravelly slightly sandy CLAY	4.8%
TP43	MG	Slightly silty slightly gravelly CLAY	7.2%
TP47	TM	Slightly gravelly slightly silty slightly clayey SAND	8.5%

The sub-grade soils in the vicinity of test locations may not be susceptible to improvement by rolling with conventional compaction plant.

The recommended sub-grade soil CBR value for road pavement design is therefore 3%. This value assumes that during construction the formation level will be carefully compacted, and any soft spots removed and replaced with well-compacted granular fill.

The sub-grade condition at the time of construction should be confirmed by testing at the final formation level by in situ CBR testing.

The sub-grade soils can be regarded as frost-susceptible, based upon the criteria given in Appendix 1 of TRRL (1970) Report Road Note 29. When the sub-grade is frost-susceptible the thickness of sub-base must be sufficient to give a total thickness of non-frost-susceptible pavement construction over the soil of not less than 450 mm.

7.5 Excavations for foundations and services

Generally, the trial pits remained stable during excavation which indicates that foundation excavations should also remain stable in the short term. In the event that excavations are to remain open for longer periods, consideration should be given to the use of trench support systems.

Man-entry into any excavations should not be undertaken without provision of suitable shoring and support and dewatering or suitable regrading and battering of side slopes to safe angles. Confined spaces protocols for the Health and Safety of personnel should always be used where man entry into excavations is to be undertaken as low oxygen conditions may be present.

The cohesive nature of the soils encountered suggests that pumping from open sumps should be sufficient to keep the excavations reasonably dry.

Excavation should be possible using conventional site plant. Breakers may be necessary to remove any concrete obstructions within the made ground.

7.6 Chemical attack on buried concrete

This assessment of the potential for chemical attack on buried concrete at the site is based on BRE Special Digest 1: Concrete in aggressive ground, which represents the most up-to-date guidance on this topic currently available in the UK.

The desk study and site reconnaissance indicate that, for the purposes of assessing the aggressive chemical environment of the site, the site should be considered as comprising natural ground unlikely to contain pyrite.

Based on testing results, Table 18 gives the characteristic pH, water-soluble and total sulphate content values for soils from each of the geological units and groundwater encountered on-site.

Table 18 Characteristic pH, water soluble sulphate and total sulphate values

Stratum	pH	Water Soluble Sulphate (mg/l)
Thrussington Member	6.12	32.46

Stratum	pH	Water Soluble Sulphate (mg/l)
Allesley Member	7.48	26.5

Based on the results above and following the steps outlined in the BRE guidance, the Design Sulphate Classes and Aggressive Chemical Environment for Concrete classifications for both the Thrussington and Allesley Member is DS-1, AC-1.

This also takes into consideration the low Ph recorded within TP6, which therefore, causes the chloride and nitrate BREs to be generated. These have been produced by the lab as a sulphate equivalent, so the values for each are added to the water-soluble sulphate.

7.7 Infiltration drainage

The results of soakaway testing are summarised in Table 19.

Table 19 Infiltration test results

Trial pit	Geological unit	Test result (m/s)
SA1	Thrussington Member	Unable to calculate infiltration rate due to insufficient drop in water level.
SA2		Unable to calculate infiltration rate due to insufficient drop in water level.
SA3		Unable to calculate infiltration rate due to insufficient drop in water level.
SA4		Unable to calculate infiltration rate due to insufficient drop in water level.
SA5		Unable to calculate infiltration rate due to insufficient drop in water level.

Based upon the results of the soakaway tests presented above, the ground conditions do not appear suitable from a geotechnical viewpoint for the use of pit soakaways to discharge surface run-off water. This is due to an insufficient drop in water levels being recorded during the in-situ tests and the cohesive nature of the Thrussington Member.

The ground conditions do not appear suitable for the use of pit soakaways. However, consideration could be given to the use of borehole soakaways taken down into the Allesley Member, subject to condition to discharge to the existing storm water/foul sewer system.

8 CONCLUSIONS AND RECOMMENDATIONS

8.1 Geo-environmental assessment

The results of the assessment indicate that concentrations of contaminants within the samples screened do not generally exceed the relevant assessment criteria, and therefore complete contaminant linkages relating to direct contact between future site users and contaminated soils have not been identified, with the exception of the below.

One sample taken from TP40 was identified to contain elevated concentrations of arsenic which may pose a risk to future site users (public open space users in close proximity to residential properties). Further trial pitting and testing in the vicinity of this location did not find evidence of further contamination and as such the elevated arsenic concentration is highly localised and unlikely to represent a significant risk. It is considered that no specific remediation of this area is required however we would recommend that a nominal thickness of topsoil (150mm) is laid in the area immediately surrounding TP40.

The comparison of leachate results with the controlled waters GAC indicated exceedances for leachable heavy metals. Further assessment identified that the metal concentrations were in line with typical background concentrations, and likely a natural property of the soils beneath the site. Therefore, it is not considered that the soils beneath the site present a significant risk to controlled waters through leaching and migration of contaminants.

The ground gas assessment at the site indicate that the site should be characterised as CS1, for which no special gas protection measures are required.

The analytical results have been assessed using this tool to assess the hazardous properties to support potential off-site disposal of materials in the future. Note that it is ultimately for landfills to confirm what wastes they are able to accept within the constraints of their permit. No samples were found to have hazardous properties based on this assessment. This suggests that if applicable the waste would require disposal at a suitably permitted inert or non-hazardous waste landfill. It should be noted that WAC testing would be required to enable disposal of natural soils as inert.

8.2 Geotechnical assessment

The exploratory holes revealed that the site is underlain by a variable thickness of made ground and/or topsoil overlying the Thrussington Member or Allesley Member. The made ground encountered was not widespread and was generally limited to the area the current barn on site.

Given the presence of competent natural soils at a relatively shallow depth it is considered that traditional spread footings are likely to be suitable for the proposed residential development and pad foundations may be adopted for the proposed care facility. Typical design resistances for new spread and pad foundations at depths of 1.00m and 2.00m bgl respectively have been given in Section 7.



The recommended sub-grade soil CBR values for design purposes is 3%. This value assumes that during construction the formation level will be carefully compacted, and any soft spots removed and replaced with well-compacted granular fill.

Initial testing of the underlying soils indicates that a concrete class of DS1 AC1 should be suitable for the proposed development.

REFERENCES

Previous SI reports and other site related information

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FIGURES

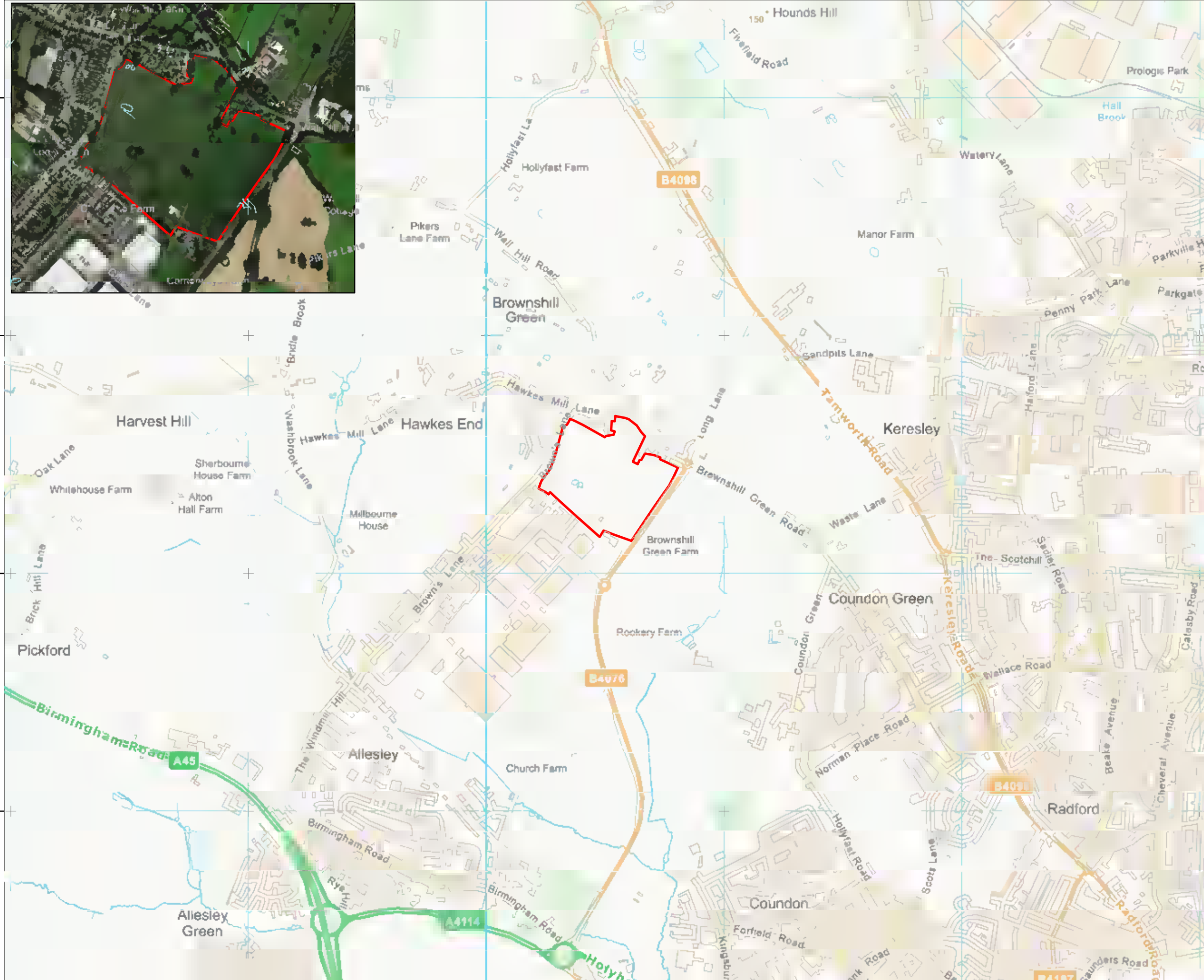
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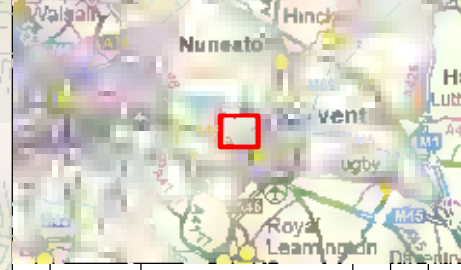
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 Units: Meter

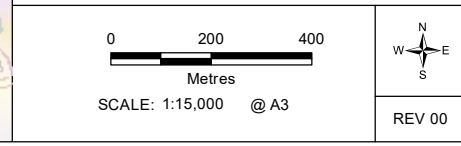


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Brown's Lane, Coventry



TITLE: Figure 1:
 Site Location Plan



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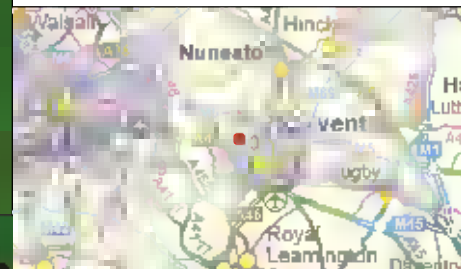
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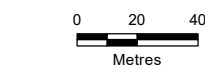


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Brown's Lane, Coventry



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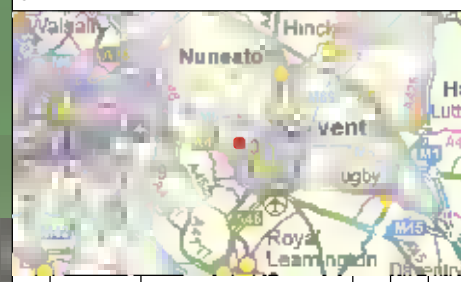
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Legend:

- Site Boundary
 - 50*50m Grid
 - Gas Mains
 - Water Mains
 - Gas Main 25m Buffer
- Exploratory Hole Locations:
- ⊕ Borehole Locations
 - ◆ Soakaway Locations
 - ⊕ Trial Pit Locations
 - ⊗ Window Sample Locations

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter

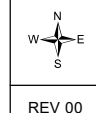
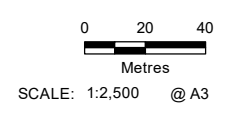


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Brown's Lane, Coventry



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Exploratory Hole Location Plan



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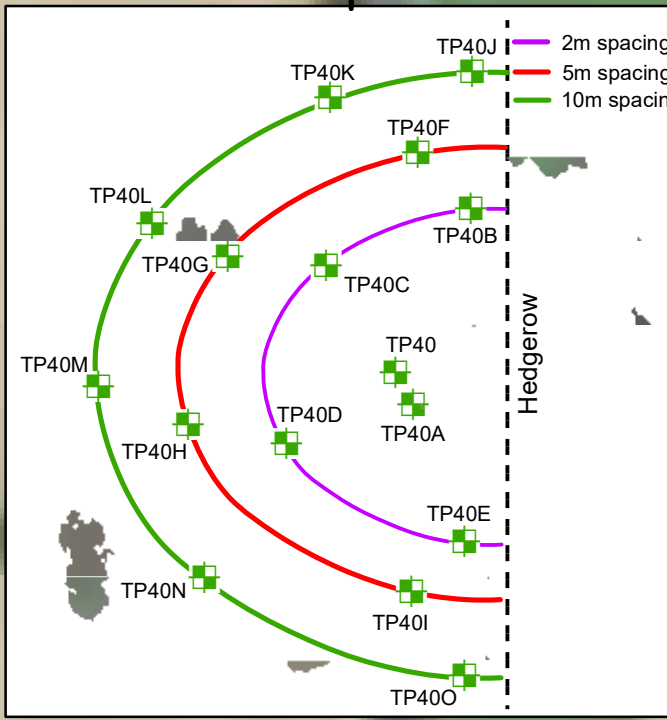
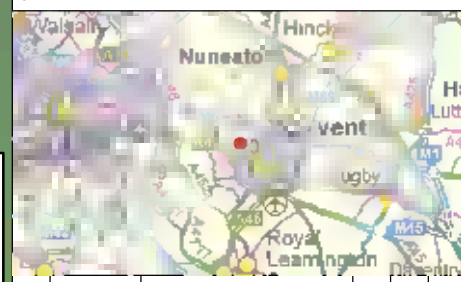
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- Legend:**
- Site Boundary
 - 50*50m Grid
 - Gas Mains
 - Water Mains
 - Gas Main 25m Buffer
- Exploratory Hole Locations:**
- ⊕ Cable Percussion Boreholes
 - ◆ Soakaway Locations
 - ⊕ Trial Pit Locations
 - ⊗ Window Sample Locations

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter



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Brown's Lane, Coventry

TITLE: Figure 4:
Supplementary Exploratory Hole Plan

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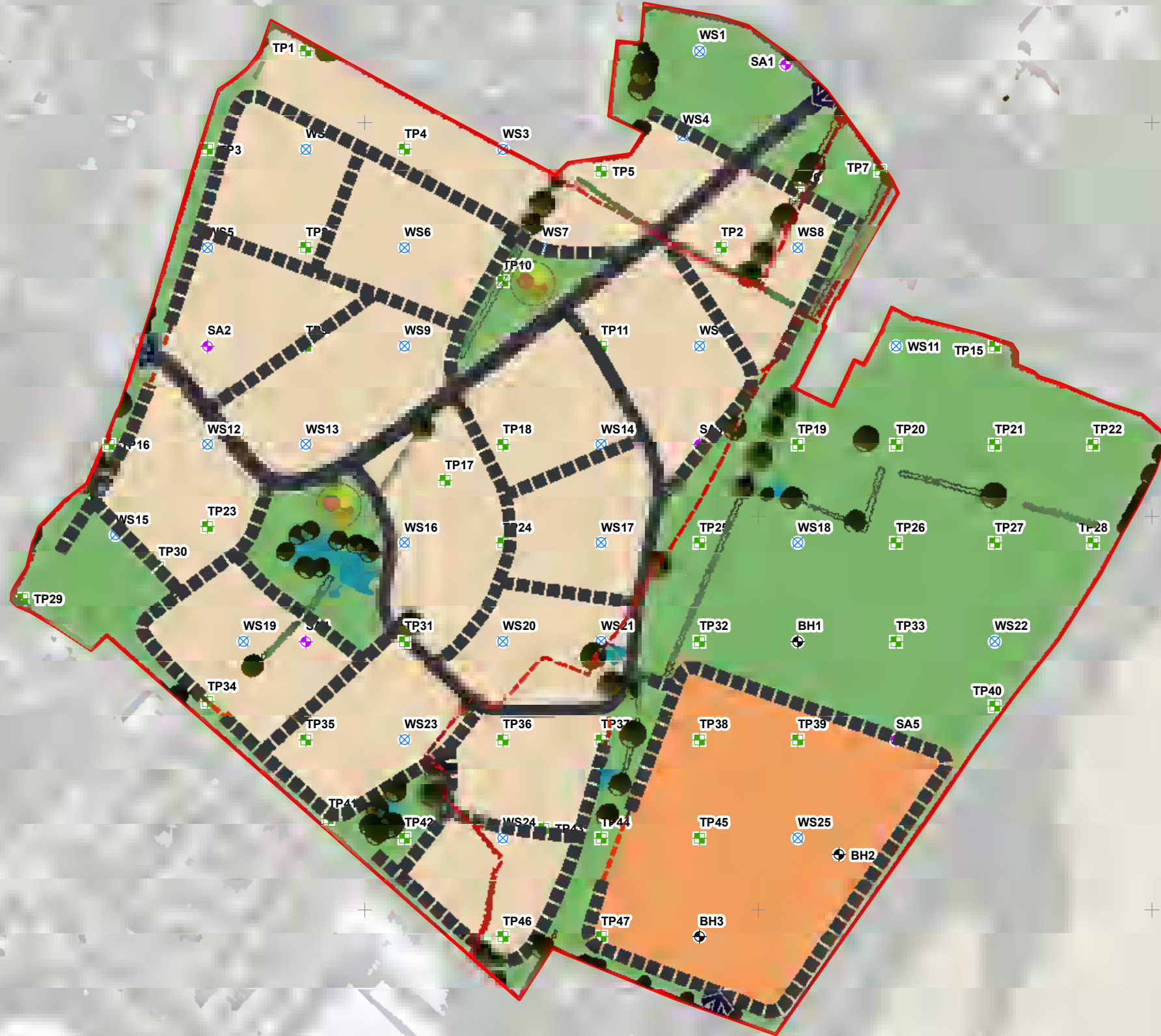
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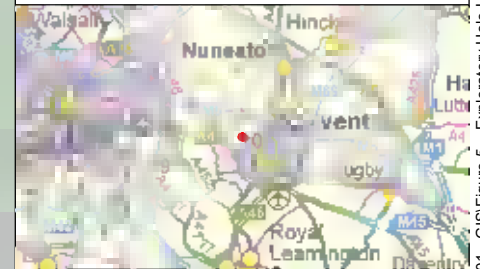
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- Site boundary
- Proposed residential area
- Public open space
- Existing tree / woodland
- Existing hedgerow
- Site access
- Primary route
- Secondary route
- Tertiary route / private drive
- Footpath / pedestrian link
- Proposed drainage
- Local equipped areas of play
- Proposed care facility

Legend:

- Borehole Locations
- Soakaway Locations
- Trial Pit Locations
- Window Sample Locations

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter

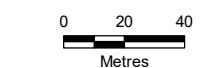


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Brown's Lane, Coventry



TITLE: Figure 5:
 Exploratory Hole Location Plan
 in Regard to Proposed Development



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APPENDIX A

SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Coventry City Council (the "Client") in accordance with the terms of a contract [RSK Environment Standard Terms and Conditions] between RSK and the Client, dated 27th March 2020. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by an environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.
2. Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK 's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the Client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials, unless specifically identified in the Services.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a visual inspection of the site together with RSK's interpretation of information, including documentation, obtained from third parties and from the Client on the history and usage of the site, unless specifically identified in the Services or accreditation system (such as UKAS ISO 17020:2012 clause 7.1.6):



- a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.
- b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.
- c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the Client and RSK.

8. The intrusive environmental site investigation aspects of the Services are a limited sampling of the site at pre-determined locations based on the known historic / operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the properties of the materials adjacent and local conditions, together with the position of any current structures and underground utilities and facilities, and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope between the client and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.
10. The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.
11. Asbestos is often observed to be present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works.
12. Unless stated otherwise, only preliminary geotechnical recommendations are presented in this report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed.



APPENDIX B DEVELOPMENT DRAWINGS

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




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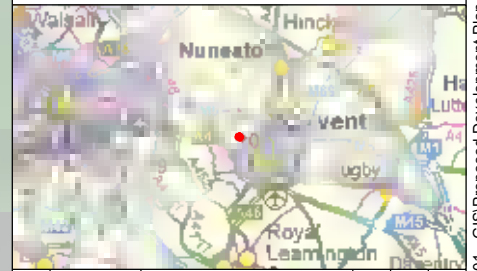
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-  Site boundary
-  Proposed residential area
-  Public open space
-  Existing tree / woodland
-  Existing hedgerow
-  Site access
-  Primary route
-  Secondary route
-  Tertiary route / private drive
-  Footpath / pedestrian link
-  Proposed drainage
-  Local equipped area of play
-  Proposed care facility

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Meter




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Brown's Lane, Coventry




TITLE: Proposed Development Plan



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APPENDIX C

SUMMARY OF LEGISLATION AND POLICY RELATING TO CONTAMINATED LAND

Part IIA of the Environmental Protection Act 1990

Part IIA of the Environmental Protection Act 1990 (Part IIA) and its associated Contaminated Land Regulations 2000 (SI 2000/227), which came into force in England on 1 April 2000, formed the basis for the current regulatory framework and the statutory regime for the identification and remediation of contaminated land. Part IIA of the EPA 1990 defines contaminated land as 'any land which appears to the Local Authority in whose area it is situated to be in such a condition by reason of substances in, on or under the land, that significant harm is being caused, or that there is significant possibility of significant harm being caused, or that pollution of controlled waters is being or is likely to be caused'. Controlled waters are considered to include all groundwater, inland waters and estuaries.

In August 2006, the Contaminated Land (England) Regulations 2006 (SI 2006/1380) were implemented, which extended the statutory regime to include Part IIA of the EPA as originally introduced on 1 April 2000, together with changes intended chiefly to address land that is contaminated by virtue of radioactivity. These have been replaced subsequently by the Contaminated Land (England) (Amendment) Regulations 2012, which now exclude land that is contaminated by virtue of radioactivity.

The intention of Part IIA is to deal with contaminated land issues that are considered to cause significant harm on land that is not undergoing development (see Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance, April 2012). This document replaces Annex III of Defra Circular 01/2006, published in September 2006 (the remainder of this document is now obsolete).

Planning Policy

Contaminated land is often dealt with through planning because of land redevelopment. This approach was documented in Planning Policy Statement: Planning and Pollution Control PPS23, which states that it remains the responsibility of the landowner and developer to identify land affected by contamination and carry out sufficient remediation to render the land suitable for use. PPS23 was withdrawn early in 2012 and has been replaced by much reduced guidance within the National Planning Policy Framework (NPPF), reference ISBN: 978-1-5286-1033-9, February 2019.

The new framework has only limited guidance on contaminated land, as follows:

Chapter 11. Making effective use of land

- 117 Planning policies and decisions should promote an effective use of land in meeting the need for homes and other uses, while safeguarding and improving the environment and ensuring safe and healthy living conditions. Strategic policies should set out a clear strategy for accommodating objectively assessed needs, in a way that makes as much use as possible of previously-developed or 'brownfield' land.
118. Planning policies and decisions should:



c) give substantial weight to the value of using suitable brownfield land within settlements for homes and other identified needs, and support appropriate opportunities to remediate despoiled, degraded, derelict, contaminated or unstable land.

Chapter 15. Conserving and enhancing the natural environment

170. Planning policies and decisions should contribute to and enhance the natural and local environment by:

e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and

f) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

Ground conditions and pollution

178. Planning policies and decisions should ensure that:

a) a site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation);

b) after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part 2A of the Environmental Protection Act 1990; and

c) adequate site investigation information, prepared by a competent person, is available to inform these assessments.

179. Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner.

Water Resources Act (WRA)

The Water Resources Act 1991 (Amendment) (England and Wales) Regulations 2009 updated the Water Resources Act 1991, which introduced the offence of causing or knowingly permitting pollution of controlled waters. The Act provides the Environment Agency with powers to implement remediation necessary to protect controlled waters and recover all reasonable costs of doing so.

Water Framework Directive (WFD)

The Water Framework Directive 2000/60/EC is designed to:

- enhance the status and prevent further deterioration of aquatic ecosystems and associated wetlands that depend on the aquatic ecosystems
- promote the sustainable use of water
- reduce pollution of water, especially by 'priority' and 'priority hazardous' substances
- ensure progressive reduction of groundwater pollution.



The WFD requires a management plan for each river basin be developed every six years.

Groundwater Directive (GWD)

The 1980 Groundwater Directive 80/68/EEC and the 2006 Groundwater Daughter Directive 2006/118/EC of the WFD are the main European legislation in place to protect groundwater. The 1980 Directive is due to be repealed in December 2013. The European legislation has been transposed into national legislation by regulations and directions to the Environment Agency.

Priority Substances Directive (PSD)

The Priority Substances Directive 2008/105/EC is a 'Daughter' Directive of the WFD, which sets out a priority list of substances posing a threat to or via the aquatic environment. The PSD establishes environmental quality standards for priority substances, which have been set at concentrations that are safe for the aquatic environment and for human health. In addition, there is a further aim of reducing (or eliminating) pollution of surface water (rivers, lakes, estuaries and coastal waters) by pollutants on the list. The WFD requires that countries establish a list of dangerous substances that are being discharged and EQS for them. In England and Wales, this list is provided in the River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010. In order to achieve the objectives of the WFD, classification schemes are used to describe where the water environment is of good quality and where it may require improvement.

Environmental Permitting Regulations (EPR)

The Environmental Permitting (England and Wales) Regulations 2016 (as amended) provide a single regulatory framework that streamlines and integrates waste management licensing, pollution prevention and control, water discharge consenting, groundwater authorisations, and radioactive substances regulation. Schedule 22, paragraph 6 of EPR 2016 states: 'the regulator must, in exercising its relevant functions, take all necessary measures - (a) to prevent the input of any hazardous substance to groundwater; and (b) to limit the input of non-hazardous pollutants to groundwater so as to ensure that such inputs do not cause pollution of groundwater.'

Notes:

- 1. The above information is provided for background but does not constitute site-specific advice*
- 2. The above summary applies to England only. Variations exist within other countries of the United Kingdom*

APPENDIX D

SITE PHOTOGRAPHS


Photo no. 1	Date: September 2020	
Description: TP1 excavated to 2.80m bgl		


Photo No. 2	Date: September 2020	
Description: TP4 excavated to 2.90m bgl		

Photo No. 3	Date: September 2020	
Description: TP6 excavated to 2.10m bgl		

Photo No. 4	Date: September 2020	
Description: TP10 excavated to 2.60m bgl		


Photo No. 5	Date: September 2020	
Description: TP15 excavated to 3.00m bgl		


Photo No. 6	Date: September 2020	
Description: TP16 excavated to 1.90m bgl		


Photo No. 7	Date: September 2020	
Description: TP17 excavated to 2.90m bgl		

Photo No. 8	Date: September 2020	
Description: TP25 excavated to 3.20m bgl		


Photo No. 9	Date: September 2020	
Description: TP27 excavated to 2.60m bgl		

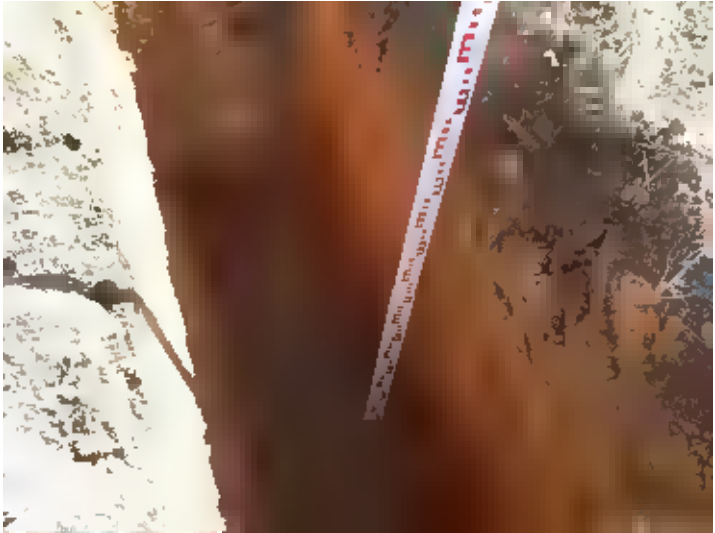
Photo No. 10	Date: September 2020	
Description: TP29 excavated to 1.90m bgl		

Photo No. 11	Date: September 2020	
Description: TP32 excavated to 3.00m bgl		

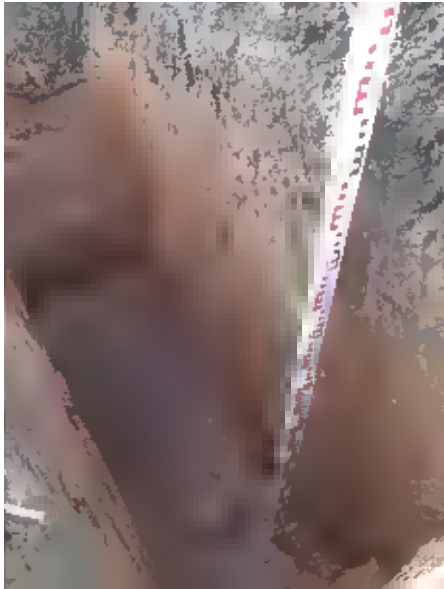
Photo No. 12	Date: September 2020	
Description: TP34 excavated to 2.00m bgl		


Photo No. 13	Date: September 2020	
Description: TP37 excavated to 2.80m bgl		


Photo No. 14	Date: September 2020	
Description: TP40 excavated to 3.20m bgl		


Photo No. 15	Date: September 2020	
Description: TP43 excavated to 3.10m bgl		


Photo No. 16	Date: September 2020	
Description: TP44 excavated to 0.40m bgl		


Photo No. 17	Date: 15/09/2020	
Description: WS1 1.20m to 2.00m bgl.		

Photo No. 18	Date: 15/09/2020	
Description: WS1 2.00m to 3.00m bgl.		

Photo No. 19	Date: 15/09/2020	
Description: WS3 1.20m to 2.00m bgl.		

Photo No. 20	Date: 15/09/2020	
Description: WS3 2.00m to 3.00m bgl.		

Photo No. 21	Date: 15/09/2020	
Description: WS3 3.00m to 4.00m bgl.		

Photo No. 22	Date: 16/09/2020	
Description: WS8 1.20m to 2.00m bgl.		

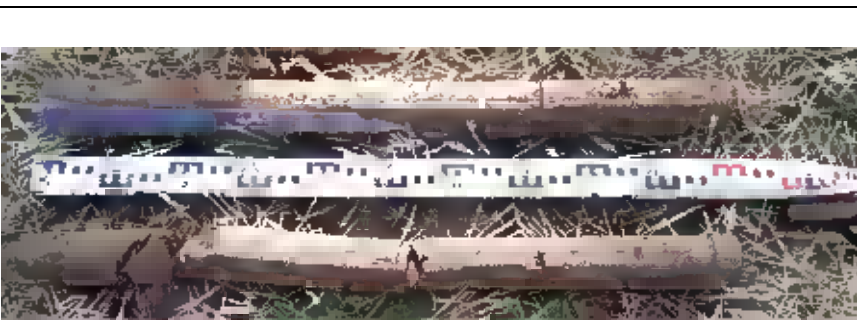
Photo No. 23	Date:	
Description: WS10 1.20m to 3.00m bgl.		

Photo No. 24	Date: 14/09/2020	
Description: WS11 1.20m to 2.00m bgl.		

Photo No. 25	Date: 14/09/2020	
Description: WS11 2.00m to 3.00m bgl.		

Photo No. 26	Date: 18/09/2020	
Description: WS12 1.20m to 2.00m bgl.		

Photo No. 27	Date:	
Description: WS12 2.00m to 3.00m bgl		

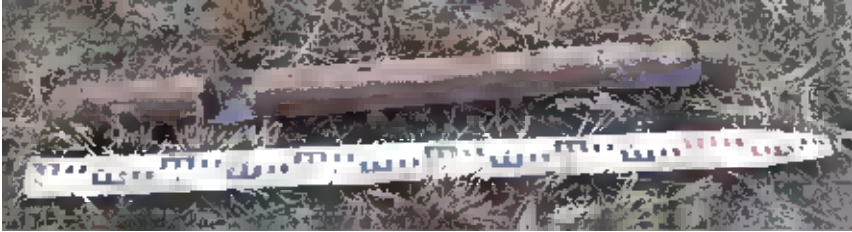
Photo No. 28	Date:	
Description: WS17 1.20m to 2.00m bgl		

Photo No. 29	Date:	
Description: WS17 2.00m to 3.00m bgl.		

Photo No. 30	Date:	
Description: WS17 3.00m to 3.80m bgl.		

Photo No. 31	Date: 14/09/2020	
Description: WS18 1.20m to 2.00m bgl.		


Photo No. 32	Date: 14/09/2020	
Description: WS18 2.00m to 3.00m bgl.		

Photo No. 33	Date:	
Description: WS19 1.20m to 2.00m bgl.		

Photo No. 34	Date: 14/09/2020	
Description: WS22 1.20m to 2.00m bgl.		



Photo No. 35	Date: 14/09/2020	
Description: WS24 1.20m to 2.00m bgl.		

Photo No. 36	Date: 14/09/2020	
Description: WS24 2.00m to 3.00m bgl.		

APPENDIX E

TECHNICAL BACKGROUND

E1 Desk Study

Aquifer designation and Source protection zones

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

CLR11 outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. Under CLR11, three stages of risk assessment exist: preliminary, generic quantitative and detailed quantitative. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.



Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low

	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

E2 Site Investigation Methodology

Ground gas monitoring

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO₂), methane (CH₄) and oxygen (O₂) in percentage by volume, while hydrogen sulphide (H₂S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

Low flow groundwater sampling

Groundwater samples were retrieved using a United States Environment Protection Agency (USEPA) approved low-flow purging and sampling methodology.

The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete and sampling can begin. As the flow rate used for purging, in



most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.

E3 Site Investigation Methodology

Statistical assessment

Statistical analysis of the results has been conducted in accordance with *Guidance on Comparing Soil Contamination Data with a Critical Concentration* (CIEH and CL:AIRE, 2008) as detailed in Appendix D.

Statistical analysis is utilised to establish whether the land is suitable for the proposed use under the land use planning system by attempting to answer a key question. For a site being developed the key question is: '*can we confidently say that the level of contamination on this land is low relative to some appropriate measure of risk?*' More specifically, this is expressed as '*Is there sufficient evidence that the true mean concentration of the contaminant (μ) is less than the critical concentration (C_c)?*', where the critical concentration could be the GAC or a site-specific assessment criterion (SSAC). The true mean (μ) is unknown and therefore a conservative estimate, termed the upper confidence limit (UCL), of this value is derived from the data. The UCL is then compared against the GAC.

In statistical terms the question above is handled through the use of a formal hypothesis – the null hypothesis and the alternate hypothesis. The statistical tests are structured to show (with a defined level of confidence, in this case 95%) which of the two hypotheses is most likely to be true, by determining whether the null hypothesis can be rejected.

For consideration under the planning regime, the null (H_0) and alternative (H_1) hypotheses are presented below.

Null and alternative hypotheses

Hypothesis	Equation	Description
Null (H_0)	$\mu \geq C_c$	The true mean concentration is equal to, or greater than, the critical concentration
Alternative (H_1)	$\mu < C_c$	The true mean concentration is less than the critical concentration

Therefore, if the null hypothesis is accepted for a certain contaminant it can be concluded that its concentration is high relative to the critical concentration, which in the case of this assessment is taken to be the GAC/SSAC and as such the whole site may be classed as being contaminated by a particular substance.

In addition, the statistical guidance provides an outlier test (Grubbs' test) that has been used within this assessment for the identification of 'outliers' or 'hotspots'. The 'outlier' test is conducted before undertaking statistical analysis (and 'outliers' may be removed from the dataset) but **only** where the conceptual model supports this.

The statistical tests applied to the dataset are selected based on whether the data is normally or non-normally distributed. The distribution of the dataset has been assessed using the Shapiro-Wilks normality test. Where the dataset has been found to be normally distributed the one sample



t-test is undertaken. Where data has been found to be non-normally distributed Chebyshev's theorem is utilised.

Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in consultation with the Environment Agency and development industry to enable the re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- the aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.



APPENDIX F

EXPLORATORY HOLE RECORDS



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP1	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 127.85	National Grid Co-ordinate: E:430369.1 N:282634.7	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES			Dark brown fine to coarse slightly gravelly sandy SILT. Sand is fine to medium. Gravel is fine to coarse angular to subrounded quartzite and rare brick and ceramic fragments. (TOPSOIL)	(0.30)		
0.60	2	D			Stiff fissured light brown mottled orangish brown to grey slightly gravelly sandy CLAY with occasional roots. Sand is fine to medium. Contains occasional roots. Gravel is fine to coarse subangular quartzite. (THRUSSINGTON MEMBER)	(0.50)		
0.60	3	ES				0.80		
1.00	4	D			Stiff reddish brown mottled black fissured sandy CLAY. Sand is fine. Contains occasional subrounded quartzite and subangular cream sandstone. Gravel is fine to coarse. (THRUSSINGTON MEMBER)	(1.40)		
					... becoming very sandy from 1.30, bgl. Sand is medium to coarse with occasional sand lenses up to 0.10m thick.			
2.30	5	D			Stiff reddish brown mottled grey slightly gravelly slightly sandy CLAY. Sand is fine to medium. Gravel is fine to coarse subangular sandstone and occasional subangular quartzite. (THRUSSINGTON MEMBER)	(0.60)		
						2.80		
Trial pit terminated at 2.80m bgl.								

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
 RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 10/11/20 - 16:41 | BS4 |

Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By: <i>ML</i>		



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP2	
Contract Ref: 252332	Start: 16.09.20 End: 16.09.20	Ground Level: 130.24	National Grid Co-ordinate: E:430320.0 N:282486.9	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Brown slightly gravelly fine to medium sandy SILT with abundant rootlets. Sand is fine to medium. Gravel is fine to coarse subrounded quartzite with occasional brick, pottery and slate. (TOPSOIL)	0.25	
0.35		CBR	10%			Stiff friable reddish brown mottled grey slightly gravelly fine to medium sandy CLAY. Sand is fine to medium. Gravel is fine to coarse subangular to subrounded quartzite, mudstone and sandstone. (THRUSSINGTON MEMBER)	(0.65)	
0.50	2	D					0.90	
1.30	3	B				Reddish brown gravelly slightly clayey medium to coarse SAND. Gravel is fine to coarse subangular to subrounded quartzite, sandstone and mudstone. (THRUSSINGTON MEMBER)	(1.20)	
						Firm to stiff reddish brown fissured CLAY with abundant mudstone lithorelicts. (ALLESLEY MEMBER)	2.10	
							(0.40)	
							2.50	
Trial pit terminated at 2.50m bgl.								

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Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion of a soakaway test. 	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: BSowden		Checked By: <i>ML</i>	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP3	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 129.02	National Grid Co-ordinate: E:430323.1 N:282587.4	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	c _u =74/68/82			Dark brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded quartzite. (TOPSOIL)	(0.35)	
0.60	2	V				Firm to stiff brown mottled reddish brown and grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded quartzite. (THRUSSINGTON MEMBER)	0.35	
0.70		D				Firm to stiff reddish brown mottled grey sandy CLAY with occasional subangular to subrounded grey sandstone and quartzite gravel. Sand is fine to coarse. (THRUSSINGTON MEMBER)	0.60	
1.80	3	D	Stiff reddish brown mottled grey and cream slightly sandy fissured CLAY with occasional mudstone gravel. Sand is fine to medium. (ALLESLEY MEMBER)			(0.90)		
				1.50				
				(1.40)				
				2.90				
Trial pit terminated at 2.90m bgl.								

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 RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 10/11/20 - 16:41 | BS4 |

Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: BSowden		Checked By: <i>ML</i>	
All dimensions in metres		Scale: 1:25	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP4	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 127.46	National Grid Co-ordinate: E:430420.1 N:282587.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30		CBR	7.2%			Dark brown slightly gravelly CLAY. Gravel is fine to medium subrounded quartzite. (TOPSOIL)	0.25	
0.40	1	ES				Stiff reddish brown mottled orangish brown slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is fine to coarse subrounded chert. (THRUSSINGTON MEMBER)	(0.35)	
0.50	2	D					0.60	
						Firm to stiff friable reddish brown mottled grey sandy CLAY with occasional quartzite subrounded gravel. Sand is fine to coarse. (THRUSSINGTON MEMBER) ... occasional silt mudstone gravel from 0.80m bgl.	(0.80)	
1.30	3	B				Firm to stiff fissured reddish brown mottled grey sandy CLAY with abundant subangular sandstone gravel. Sand is medium to coarse. (ALLESLEY MEMBER)	1.40	
							(1.50)	
							2.90	
Trial pit terminated at 2.90m bgl.								

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Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> Location scanned with GPR prior to breaking ground. No services encountered. Trial pit remained stable during excavation. Groundwater not encountered. Trial pit backfilled with arisings upon completion. 	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: BSowden		Checked By: <i>ML</i>	
All dimensions in metres		Scale: 1:25	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP5	
Contract Ref: 252332	Start: 16.09.20 End: 16.09.20	Ground Level: 124.87	National Grid Co-ordinate: E:430520.7 N:282572.3	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20 0.30	1	ES CBR	7.2%			Dark brown slightly gravelly slightly sandy SILT with abundant rootlets. Sand is fine to medium. Gravel is fine to coarse subangular quartzite. (TOPSOIL)	(0.30) 0.30	
0.80	2	D				Firm friable reddish brown mottled grey and greyish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is fine to medium subangular quartzite. (THRUSINGTON MEMBER) ... becoming stiff from 0.60m bgl.	(1.00) 1.30	
1.40	3	D				Reddish brown gravelly slightly clayey medium to coarse SAND. Gravel is fine to coarse subangular to subrounded quartzite. (THRUSINGTON MEMBER)	(0.30) 1.60	
						Stiff friable reddish brown mottled grey gravelly slightly sandy CLAY. Sand is medium to coarse. Gravel is fine to coarse subangular grey siltstone and occasional sandstone and mudstone. (ALLESLEY MEMBER)	(0.90) 2.50	
						Trial pit terminated at 2.50m bgl.		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: BSowden		Checked By:	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP6	
Contract Ref: 252332	Start: 04.09.20	Ground Level: 119.50	National Grid Co-ordinate: E:430626.3 N:282556.8	Sheet: 1 of 1	
End: 04.09.20					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES	4.8%			Turf over light brown slightly silty fine to coarse SAND with frequent roots and rootlets. (TOPSOIL)	0.10	
0.30		CBR				Light brown slightly silty slightly gravelly fine to coarse SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse chert, quartzite and weakly cemented sandstone. (THRUSINGTON MEMBER) ... becoming slightly clayey with occasional pockets from 0.30m bgl.	(0.40)	
0.80	2	ES				Orange brown slightly clayey slightly silty slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse sandstone. (THRUSINGTON MEMBER) ... occasional dark brown cobbles of subangular weakly cemented sandstone from 1.20m bgl. ... losing clay and becoming gravelly from 1.40m bgl. ... becoming very gravelly from 1.60m bgl. ... frequent cobbles of subangular sandstone from 1.90m bgl.	0.50	
							(1.60)	
						Trial pit terminated at 2.10m bgl.	2.10	

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Plan (Not to Scale)		General Remarks	
		<ol style="list-style-type: none"> Location scanned with CAT and Genny prior to breaking ground. No services encountered. Trial pit advanced to 2.10m bgl. No groundwater encountered. Trial pit backfilled with arisings upon completion. 	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By:

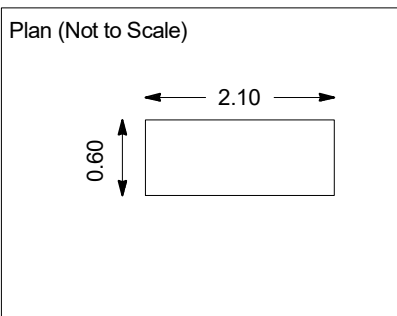


TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP7	
Contract Ref: 252332	Start: 04.09.20 End: 04.09.20	Ground Level: 116.96	National Grid Co-ordinate: E:430655.0 N:282571.8	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	6%	Water	Backfill	Turf over orangish brown slightly gravelly slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to medium chert. (TOPSOIL)	0.15	
0.35		CBR				Orangish brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert and quartzite. (THRUSSINGTON MEMBER) ... becoming reddish brown from 0.50m bgl.	(0.95)	
0.80	2	B				1.10		
1.50	3	B				1.80		
2.00	4	ES				2.50		
2.50	5	D			... pockets of firm to stiff red brown and occasional light grey mottles from 2.50m bgl.	2.90		
Trial pit terminated at 2.90m bgl.								

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General Remarks

1. Location scanned with CAT and Genny prior to breaking ground. No services encountered.
2. Trial pit advanced to 2.90m bgl.
3. No groundwater encountered.
4. Trial pit backfilled with arisings upon completion.

All dimensions in metres Scale: **1:25**

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By: 	
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TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP8	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 129.41	National Grid Co-ordinate: E:430370.0 N:282536.9	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	10%			Dark brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is fine to coarse subrounded quartzite. (TOPSOIL)	0.20	
0.20		CBR				Firm to stiff brown mottled orangish brown slightly gravelly sandy CLAY. Sand is medium to coarse. Gravel is fine to coarse subangular to subrounded quartzite. (THRUSINGTON MEMBER)	(0.30)	
0.40	2	ES				Stiff friable reddish brown mottled black and cream slightly gravelly slightly sandy CLAY. Sand is fine. Gravel is fine to coarse subangular mudstone. (THRUSINGTON MEMBER)	0.50	
0.80	3	D					(0.80)	
1.50	2	B				Reddish brown mottled grey slightly clayey fine to medium SAND. (ALLESLEY MEMBER)	1.30	
							(1.40)	
							2.70	
						Reddish brown gravel fine to medium SAND. Gravel is fine to coarse subangular to angular extremely weak sandstone. (ALLESLEY MEMBER)	(0.30)	
							3.00	
Trial pit terminated at 3.00m bgl.								

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Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: BSowden		Checked By: <i>ML</i>	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP9	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 130.00	National Grid Co-ordinate: E:430369.9 N:282486.9	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20 0.25	1	ES CBR	7.2%			Dark brown slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is fine to coarse subangular to subrounded quartzite. (TOPSOIL)	0.25	
0.50 0.50	2	D V	$c_u=92/86/82$			Firm to stiff brown mottled orangish brown friable gravelly sandy CLAY. Sand is medium to coarse. Gravel is fine to coarse subangular to subrounded quartzite. (THRUSSINGTON MEMBER)	(0.35) 0.60	
						Stiff friable fissured reddish brown mottled grey sandy CLAY with abundant fine to medium subangular mudstone and subrounded quartz gravel. Sand is fine to coarse. (THRUSSINGTON MEMBER)	(0.60) 1.20	
						Reddish brown grey slightly clayey fine to medium SAND. (ALLESLEY MEMBER)	(0.60) 1.80	
						Extremely weak to weak reddish brown sandstone recovered as clayey sandy gravelly COBBLES. Sand is fine to coarse. Gravel and cobbles are fine to coarse angular to subangular grained red sandstone. (ALLESLEY MEMBER)	1.90	
Trial pit terminated at 1.90m bgl.								

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By:		



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP10	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 127.47	National Grid Co-ordinate: E:430466.3 N:282520.2	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20 0.20	1	ES CBR	4.8%			Dark brown gravelly sandy CLAY. Sand is fine to medium. Gravel is fine to coarse subrounded quartzite. (TOPSOIL)	(0.30) 0.30	
						Firm orange mottled greyish brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded quartzite and mudstone. (THRUSSINGTON MEMBER)	(0.35) 0.65	
0.70	2	D				Stiff friable reddish brown mottled grey sandy CLAY with occasional subangular mudstone and subrounded quartzite gravel. Sand is fine to medium. (THRUSSINGTON MEMBER)	(0.45) 1.10	
1.20		V	c _u =102/98/98			Stiff friable reddish brown mottled grey gravelly slightly sandy CLAY. Sand is fine to medium. Gravel is fine to coarse subangular mudstone and grey sandstone. (THRUSSINGTON MEMBER)		
1.80	3	D					(1.50)	
							2.60	
Trial pit terminated at 2.60m bgl.								

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: BSowden		Checked By: <i>ML</i>	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP11	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 126.44	National Grid Co-ordinate: E:430519.9 N:282486.2	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				Dark brown slightly gravelly SILT. Gravel is fine to coarse subangular quartzite. (TOPSOIL)	(0.40)	
0.45		CBR	6%			Firm brown mottled reddish brown and grey slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular quartzite. (THRUSSINGTON MEMBER)	0.40	
0.90	2	D				Stiff friable reddish brown mottled grey and occasional cream gravelly sandy CLAY. Sand is medium to coarse. Gravel is fine to coarse angular to subrounded quartzite, sandstone and mudstone. (THRUSSINGTON MEMBER)	0.60	
						... moderate cobble content from 2.00m bgl, cobbles are angular to subangular grey siltstone with some black mottling.	(2.20)	
						Trial pit terminated at 2.80m bgl.	2.80	

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By: <i>ML</i>		



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP15	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 114.97	National Grid Co-ordinate: E:430720.0 N:282487.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30 0.40	1	ES CBR	7.2%			Turf over brown slightly gravelly slightly silty slightly clayey fine to coarse SAND with frequent rootlets. Gravel is subangular to subrounded fine to medium chert. (TOPSOIL) Orangish brown slightly gravelly slightly silty slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse siltstone and rare sandstone. (THRUSSINGTON MEMBER)	0.10 (0.50) 0.60	
1.00	2	B				Brownish red slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to medium quartzite, sandstone and siltstone. (THRUSSINGTON MEMBER) ... becoming gravelly from 1.00m bgl.	(2.40)	
2.20	3	D					3.00	
Trial pit terminated at 3.00m bgl.								

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Plan (Not to Scale) 	General Remarks	
	1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 3.00m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP16	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 129.47	National Grid Co-ordinate: E:430273.8 N:282435.8	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES	15%			Dark brown sandy gravelly SILT. Sand is fine to medium. Gravel is fine to coarse subangular to subrounded chert and quartzite. (TOPSOIL)	(0.30)	
0.30		CBR				Stiff fissured light brown sandy CLAY with occasional subrounded fine to coarse quartzite gravel, roots and rootlets. (THRUSSINGTON MEMBER)	(0.40)	
0.50	2	ES				Stiff to hard fissured friable reddish brown mottled grey and black sandy CLAY with occasional rootlets. Sand is fine to medium. (THRUSSINGTON MEMBER)	0.70	
0.50	3	D					(1.00)	
						Reddish brown weathered black extremely weak MUDSTONE recovered as clayey fine to coarse angular to subangular mudstone gravel. (ALLESLEY MEMBER)	1.70	
						Trial pit terminated at 1.90m bgl.	1.90	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: BSowden		Checked By:	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP17
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 129.62	National Grid Co-ordinate: E:430440.8 N:282417.1	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	6%			Dark brown fine to coarse gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular quartzite and sandstone. (TOPSOIL)	(0.30)	
0.30		CBR				Firm friable brown mottled reddish and orangish brown sandy CLAY with abundant subrounded fine to coarse quartzite gravel. Sand is fine to coarse. (THRUSSINGTON MEMBER)	(0.30)	
1.60	2	D V	$c_u=64/62/58$			Stiff friable reddish brown mottled grey sandy CLAY with occasional subrounded fine to coarse quartz gravel and mudstone gravel. Sand is medium to coarse. (THRUSSINGTON MEMBER)	(1.30)	
1.60						... contains sand lenses of medium to coarse sand upto 50mm thick between 1.20m and 1.60m bgl.		
						Stiff friable reddish brown mottled grey and cream slightly fine to coarse gravelly CLAY. Gravel is fine to coarse subangular to subrounded quartzite, mudstone, grey siltstone and red sandstone. (THRUSSINGTON MEMBER)	(1.00)	
						... low cobble content of tabular grey siltstone below 2.40m bgl.		
						Trial pit terminated at 2.90m bgl.	2.90	

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Plan (Not to Scale) 	General Remarks	
	1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion,	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP18
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 128.68	National Grid Co-ordinate: E:430469.9 N:282437.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30		CBR	6%			Brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is fine to coarse subangular to subrounded quartzite. (TOPSOIL)	(0.30)	
0.50	1	ES				Firm to stiff friable brown mottled reddish brown and grey gravelly slightly sandy CLAY. Sand is medium to coarse. Gravel is fine to coarse subrounded quartzite. (THRUSINGTON MEMBER)	(0.40)	
0.60	2	D				Stiff reddish brown mottled grey gravelly sandy CLAY with occasional sand lenses. Sand is medium to coarse. Gravel is fine to coarse subangular to subrounded quartzite, sandstone and mudstone. (THRUSINGTON MEMBER)	0.70	
1.40	3	D				... occasional tabular grey siltstone cobbles below 1.60m bgl.	(1.90)	
1.60	V		$c_u=58/54/62$					
Trial pit terminated at 2.60m bgl.							2.60	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By:



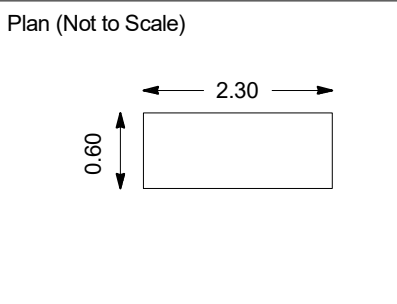


TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP19	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 122.24	National Grid Co-ordinate: E:430620.0 N:282437.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30 0.35	1	ES CBR	6%			Turf over brown slightly gravelly clayey fine to coarse SAND with frequent roots and rootlets. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL) Light brown slightly gravelly slightly silty fine to coarse SAND with frequent roots and rootlets. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare sandstone. (THRUSSINGTON MEMBER) ... becoming gravelly from 0.50m bgl with frequent sandstone.	0.20 (0.70) 0.90	
1.00 1.40	2	D V	 $c_u=55/70/80$			Firm and locally stiff reddish brown slightly gravelly slightly silty CLAY. Gravel is angular to subrounded fine to coarse chert, quartzite, siltstone and rare mudstone. (THRUSSINGTON MEMBER) ... becoming light grey mottled from 1.50m bgl. ... friable from 1.80m bgl.		
2.00 3.10	3 4	D D				... rare cobbles of subangular sandstone from 2.50m bgl.	(2.30)	
Trial pit terminated at 3.20m bgl.							3.20	

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General Remarks

1. Location scanned with CAT and Genny prior to breaking ground. No services encountered.
2. Trial pit advanced to 3.20m bgl.
3. No groundwater encountered.
4. Trial pit backfilled with arisings upon completion.

All dimensions in metres Scale: **1:25**

Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By:	
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TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP20	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 118.28	National Grid Co-ordinate: E:430670.0 N:282437.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			<p>Turf over brown slightly gravelly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL)</p> <p>Soft to firm light brown slightly sandy slightly gravelly to gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, sandstone and rare siltstone. (THRUSSINGTON MEMBER)</p> <p>... rare cobbles of chert from 0.40m bgl.</p> <p>... firm to stiff from 0.90m bgl.</p> <p>... stiff to very stiff from 1.20m bgl.</p>	0.20		
0.30	2	ES						
0.40		CBR	4.8%					
0.60		V	$c_u=90/96/98$					
1.40	3	D			<p>... becoming light grey mottled from 1.80m bgl.</p>	2.10		
1.40		V	$c_u=140/138/140$					
2.20	4	B			<p>Brownish red gravelly slightly clayey slightly silty fine to coarse SAND. Gravel is subangular fine to coarse weakly cemented sandstone. (ALLESLEY MEMBER)</p>	(0.40)		
Trial pit terminated at 2.50m bgl.						2.50		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale:	1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By: <i>ML</i>



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP21	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 115.17	National Grid Co-ordinate: E:430720.0 N:282436.9	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20 0.30	1	ES CBR	3.8%			Turf over brown slightly gravelly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to medium chert and quartzite. (TOPSOIL)	0.10	
						Reddish brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare sandstone. (THRUSSINGTON MEMBER) ... rare cobbles of subangular sandstone from 0.40m bgl. ... becoming brownish red from 0.60m bgl.	(0.60)	
0.80	2	B				Brownish red slightly clayey gravelly fine to coarse SAND. Gravel is subangular fine to coarse weakly cemented sandstone. (ALLESLEY MEMBER) ... occasional cobbles of subangular sandstone from 1.00m bgl.	0.70	
							(2.20)	
							2.90	
						Trial pit terminated at 2.90m bgl.		

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By: <i>ML</i>		



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP22	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 112.71	National Grid Co-ordinate: E:430770.1 N:282437.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	4.8%			Turf over brown slightly gravelly slightly clayey slightly silty fine to coarse SAND with rare rootlets. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	0.15	
0.30	2	ES				Light brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert, siltstone and quartzite. (THRUSSINGTON MEMBER)	(0.75)	
0.40	CBR						0.90	
						. . . rare light orange brown mottles from 0.80m bgl.		
						Soft to firm light brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, siltstone, chert and quartzite. (THRUSSINGTON MEMBER)	(0.90)	
1.50	3	D					1.80	
2.00	4	ES				Brownish red slightly clayey sandy angular to subrounded fine to coarse GRAVEL of sandstone, rare chert and siltstone. (ALLESLEY MEMBER)	(0.40)	
Trial pit terminated at 2.20m bgl.							2.20	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By: <i>ME</i>



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP23	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 128.98	National Grid Co-ordinate: E:430320.1 N:282395.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20		CBR	6%			Dark brown sandy SILT with abundant fine to coarse subrounded chert gravel. Sand is fine to medium. (TOPSOIL)	0.20	
0.50	1	ES				Firm brown mottled orangish and reddish brown sandy CLAY with occasional fine to coarse subrounded quartz gravel. Sand is fine to medium. (THRUSSINGTON MEMBER)	(0.35) 0.55	
0.80	2	D				Red gravelly very clayey medium to coarse SAND. Gravel is extremely weak fine to coarse subangular sandstone. (ALLESLEY MEMBER) ... occasional layers of very sandy slightly friable CLAY from 1.00 bgl.	(1.25) 1.80	
						Extremely to very weak reddish brown medium to coarse grained SANDSTONE recovered as medium to coarse sandy fine to coarse gravel with moderate cobble content. (ALLESLEY MEMBER) Trial pit terminated at 2.00m bgl on bedrock.	2.00	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By: AGS



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP24	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 129.49	National Grid Co-ordinate: E:430470.0 N:282385.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	6%			Dark brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is fine to coarse subrounded quartzite. (TOPSOIL)	(0.35)	
0.40		CBR				Firm friable yellowish brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular quartzite. (THRUSSINGTON MEMBER)	(0.30)	
0.60	2	ES	Firm to stiff friable reddish brown mottled grey slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded quartzite and subangular sandstone. (THRUSSINGTON MEMBER)			(0.60)		
1.30	3	D V	$c_u=72/72/76$			Stiff reddish brown mottled grey and yellow brown gravelly medium to coarse sandy CLAY. Sand is medium to coarse. Gravel is fine to coarse subangular to subrounded quartz, sandstone and mudstone. (THRUSSINGTON MEMBER)	(0.65)	
2.00	4	D				Stiff reddish brown mottled grey gravelly CLAY with moderate cobble content. Gravel and cobbles are fine to coarse subangular grey tabular siltstone. (THRUSSINGTON MEMBER)	2.00	
Trial pit terminated at 2.00m bgl								

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By: <i>ML</i>		



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP25	
Contract Ref: 252332	Start: 04.09.20 End: 04.09.20	Ground Level: 125.78	National Grid Co-ordinate: E:430569.9 N:282387.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.25 0.35	1	ES CBR	7.2%			Turf over brown slightly gravelly slightly clayey fine to coarse SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL)	0.10 (0.50)	
0.70 0.90	2	D V	$c_u=80/79/80$			Light brown slightly gravelly slightly silty slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert, quartzite and one rare brick fragment. (THRUSSINGTON MEMBER)	0.60	
1.40 1.40	3	D V	$c_u=90/80/88$			Firm orangish reddish brown slightly silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse chert, sandstone, quartzite and rare siltstone. (THRUSSINGTON MEMBER)		
						... locally stiff from 1.20m bgl.		
						... occasional light grey mottling from 1.50m bgl with rare siltstone and slate gravel.		
						... from 2.00m bgl becoming friable.	(2.60)	
2.30	4	D					3.20	
						Trial pit terminated at 3.20m bgl.		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP26	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 118.76	National Grid Co-ordinate: E:430670.0 N:282387.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				Turf over brown slightly gravelly slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	0.10	
0.35		CBR	4.8%			Light brown slightly gravelly slightly gravelly fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert and quartzite. (THRUSSINGTON MEMBER) ... no rootlets from 0.50m bgl. ... becoming greyish brown from 0.60m bgl with occasional sandstone gravel.	(0.60)	
1.20		V	$c_u=90/102/100$			Firm to stiff reddish brown slightly silty slightly gravelly to gravelly CLAY. Gravel is subangular to subrounded fine to coarse quartzite and siltstone. (THRUSSINGTON MEMBER) ... becoming pinkish red from 1.50m bgl. ... becoming firm from 1.70m bgl.	0.70	
1.30	2	D						
1.80		V	$c_u=58/48/56$				(2.40)	
1.80	3	ES						
2.10		V	$c_u=78/82/86$... occasional light grey mottling from 2.20m bgl.		
2.10		V						
2.60	4	D						
						Trial pit terminated at 3.10m bgl.	3.10	

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Plan (Not to Scale) 	General Remarks	
	1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP27	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 116.57	National Grid Co-ordinate: E:430720.0 N:282387.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.30 0.35	1	ES CBR	8.5%			Turf over brown slightly gravelly slightly clayey fine to coarse SAND with frequent roots and rootlets. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL) Light brown gravelly slightly silty fine to coarse SAND with occasional roots and rootlets. Gravel is angular to subrounded fine to coarse sandstone, quartzite and chert. (THRUSSINGTON MEMBER)	0.15 (0.65)	
1.00 1.20	2	ES V	$c_u=92/90/81$			Firm to stiff red brown slightly gravelly slightly silty CLAY. Gravel is subangular to subrounded fine to coarse siltstone, chert, quartzite and sandstone. (THRUSSINGTON MEMBER)	0.80	
1.50 1.50	3	D V	$c_u=85/80/90$... frequent grey mottling and siltstone gravel from 2.00m bgl.	(1.40)	
2.40	4	D				Brownish red and grey mottled slightly clayey fine to coarse SAND and angular to subrounded fine to coarse GRAVEL of sandstone and siltstone. (ALLESLEY MEMBER)	2.20 (0.40)	
Trial pit terminated at 2.60m.							2.60	




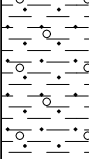

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 2.60m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By:		

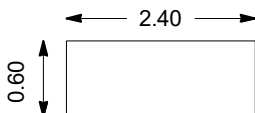
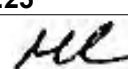



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP28	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 114.57	National Grid Co-ordinate: E:430770.0 N:282387.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	10%			Turf over brown slightly gravelly slightly clayey fine to coarse SAND with frequent roots and rootlets. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	0.15	
0.20	2	ES				(0.45)	Reddish brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse sandstone, chert and quartzite. (THRUSSINGTON MEMBER) ... becoming lighter red brown from 0.40m bgl.	
0.30		CBR						
0.90	3	V	$c_u=90/95/120$			(0.60)	Firm to stiff reddish / orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse sandstone. (THRUSSINGTON MEMBER)	
1.00		D						
1.50	4	B		Brownish red gravelly slightly silty slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse sandstone and rare siltstone. (ALLESLEY MEMBER) ... coarse grained dark brown and greyish brown sandstone gravel present from 2.40m bgl.	(1.40)			
							2.60	
Trial pit terminated at 2.60m bgl.								

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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 2.60m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: EWild		Checked By: 	
			



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP29	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 126.69	National Grid Co-ordinate: E:430230.8 N:282358.2	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.40		CBR	6%			Dark brown slightly gravelly sandy CLAY with abundant rootlets. Sand is fine to coarse. Gravel is fine to coarse subrounded quartzite. (TOPSOIL)	(0.30)	
0.70	1	ES	c _u =66/64/66			Firm to stiff reddish brown mottled orangish brown and grey medium sandy CLAY. Sand is medium to coarse. (THRUSSINGTON MEMBER)	(1.10)	
0.80	2	D						
0.80		V						
1.60	3	D				Stiff reddish brown mottled grey gravelly CLAY. Gravel is fine to coarse of angular to subangular mudstone. (ALLESLEY MEMBER)	(0.40)	
						Extremely weak to very weak reddish brown MUDSTONE recovered as clayey fine to coarse angular to subangular gravel. (ALLESLEY MEMBER)	1.80	
						Trial pit terminated at 1.90m bgl.	1.90	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: BSowden		Checked By: <i>ML</i>	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP30	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 128.17	National Grid Co-ordinate: E:430295.1 N:282374.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	8.5%			Dark brown sandy slightly gravelly SILT. Sand is fine to medium. Gravel is fine to coarse subangular quartzite with rare brick. (TOPSOIL)	0.25	
0.25		CBR				Firm orangish brown mottled greyish brown friable sandy CLAY with occasional subrounded fine to coarse of quartzite. Sand is medium to coarse. (THRUSSINGTON MEMBER)	(0.45)	
0.50	2	D				Stiff light reddish brown mottled grey friable slightly sandy CLAY with occasional extremely weak with occasional extremely weak gravel of subangular mudstone. Sand is medium to coarse. (THRUSSINGTON MEMBER)	0.70	
1.00	3	D					(1.00)	
							1.70	
					Extremely weak reddish brown MUDSTONE recovered as clayey fine to coarse angular to subangular gravel mudstone. (ALLESLEY MEMBER)	(0.70)		
						2.40		
Trial pit terminated at 2.40m bgl on bedrock.								

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By: <i>ML</i>		



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP31	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 130.52	National Grid Co-ordinate: E:430419.2 N:282335.8	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				Brown gravelly sandy SILT with abundant rootlets. Sand is fine to medium. Gravel is subrounded fine to coarse quartzite and rare ceramics. (TOPSOIL)	(0.40)	
0.45 0.46 0.60	2	CBR CBR D	39% 34%			Hard dessicated orangish brown mottled grey gravelly sandy CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subrounded fine to coarse quartzite. (THRUSSINGTON MEMBER)	0.60	
						Stiff fissured / dessicated reddish brown mottled grey CLAY with abundant rootlets. (THRUSSINGTON MEMBER)	0.80	
						Stiff reddish brown mottled grey gravelly sandy CLAY. Sand is fine to medium and present in fissures. Gravel is subangular to subrounded fine to coarse sandstone and quartzite. (THRUSSINGTON MEMBER)	(0.90)	
							1.70	
2.00	4	D				Hard fissured reddish brown mottled grey and cream CLAY. Grey weathering along fissures with calcareous concretions. (ALLESLEY MEMBER)	(1.30)	
							3.00	
Trial pit terminated at 3.00m bgl.								

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: BSowden	Checked By:		



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP32
Contract Ref: 252332	Start: 04.09.20 End: 04.09.20	Ground Level: 126.86	National Grid Co-ordinate: E:430570.0 N:282336.9	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	ES	6%		Turf brown slightly silty slightly clayey fine to coarse SAND with occasional rootlets. (TOPSOIL)	0.20		
0.40		CBR				Light brown slightly gravelly to gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert and sandstone. (THRUSSINGTON MEMBER) ... occasional cobbles of subangular sandstone from 0.45m bgl.		(0.50)
0.80	2	ES			Firm reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite, chert, sandstone and occasional siltstone. (THRUSSINGTON MEMBER)	0.70		
1.30	3	D	c _u =80/82/78		Firm reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite, chert, sandstone and occasional siltstone. (THRUSSINGTON MEMBER)	(1.80)		
1.40		V		... occasionally light grey mottled from 1.50m bgl.				
1.80		V	c _u =110/102/114		... becoming stiff from 1.80m bgl.			
					Friable firm to stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse sandstone and occasional siltstone. (ALLESLEY MEMBER)	2.50		
						(0.50)		
					Trial pit terminated at 3.00m bgl.	3.00		

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Plan (Not to Scale) 	General Remarks	
	1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP33	
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 122.14	National Grid Co-ordinate: E:430669.9 N:282337.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over light brown slightly gravelly slightly clayey to clayey fine to coarse SAND with frequent rootlets. Gravel is subangular to subrounded fine to medium chert. (TOPSOIL)	0.15	
0.40		CBR	6%	Orangish brown slightly gravelly to gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare sandstone. (THRUSSINGTON MEMBER)		(0.65)		
1.00	2	ES V	$c_u=68/80/82$	Firm and locally stiff red brown slightly sandy slightly silty slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite and sandstone. (THRUSSINGTON MEMBER)		0.80		
1.40	3	D V	$c_u=90/92/90$... becoming stiff from 1.30m bgl.		(1.00)		
1.50				... occasional sandy pockets from 1.70m bgl.			1.80	
2.30	4	D				Red brown slightly gravelly slightly cobbly slightly silty fine to coarse SAND. Cobbles and gravel are subangular fine to coarse sandstone and rare siltstone. (ALLESLEY MEMBER)	(0.60)	
						Trial pit terminated at 2.40m bgl due to hard digging.	2.40	

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Plan (Not to Scale) 	General Remarks	
	1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 2.40m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP34	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 127.24	National Grid Co-ordinate: E:430320.0 N:282305.9	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	ES	6%			Firm brown slightly gravelly slightly sandy CLAY. Sand is fine. Gravel is subangular to subrounded fine to coarse quartzite, rare brick, slate and lignite. (TOPSOIL)	(0.40)	
0.40		CBR					0.40	
0.50	2	ES	c _u =82/88/96			Firm brown mottled orangish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subrounded fine to coarse quartzite and occasional coal and slate. (THRUSSINGTON MEMBER)	0.60	
0.80							0.60	
0.80	3	D				Firm to stiff light brown mottled light reddish brown and grey sandy CLAY with occasional subrounded gravel of quartzite. Sand is coarse and in partings. (THRUSSINGTON MEMBER)	(0.50)	
		V					0.50	
1.20	4	D				Firm friable reddish brown mottled grey and yellowish brown slightly gravelly sandy CLAY. Sand is fine. Gravel is angular to subangular fine to coarse extremely weak red mudstone. (ALLESLEY MEMBER)	(0.60)	
						Reddish brown weathered grey extremely weak SANDSTONE. Recovered as clayey angular to subangular fine to coarse gravel if red sandstone weathered black on fractured surfaces. (ALLESLEY MEMBER)	(0.30)	
						Trial pit terminated at 2.00m bgl.	2.00	

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> Location scanned with GPR prior to breaking ground. No services encountered. Trial pit remained stable during excavation. Groundwater not encountered. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used:	Machine dug	Plant Used:	JCB-3CX	Logged By:	BSowden
		Checked By:			



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP35	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 128.36	National Grid Co-ordinate: E:430369.9 N:282287.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES	4.8%	Water	Backfill	Dark brown slightly gravelly sandy SILT. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL)	(0.35)	
0.40		CBR				Firm to stiff brown mottled greyish brown sandy CLAY with occasional fine to coarse subrounded quartzite and subangular sandstone gravels. Sand is fine to coarse. (THRUSSINGTON MEMBER)	0.35 0.50	
0.70	2	D	Firm to stiff friable reddish brown mottled grey slightly sandy CLAY with occasional fine to coarse subangular sandstone gravel. Sand is fine. (THRUSSINGTON MEMBER)			(1.20)		
			Extremely weak reddish brown weathered light grey MUDSTONE. Recovered as clayey fine to coarse subangular GRAVEL of tabular mudstone. Mudstone weathered black on fracture surfaces. (ALLESLEY MEMBER)			1.70 1.95		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: BSowden		Checked By: <i>ML</i>	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP36	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 130.54	National Grid Co-ordinate: E:430470.0 N:282287.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES	10%			Turf over light brown slightly gravelly slightly silty fine to coarse SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	0.10	
0.35		CBR				Light brown gravelly slightly silty slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse siltstone, chert and quartzite. (THRUSSINGTON MEMBER)	(0.30)	
0.80	2	D	c _v =88/78/86			Firm reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite, siltstone and rare sandstone. (THRUSSINGTON MEMBER) ... occasional cobbles of subangular siltstone from 0.80m bgl. ... becoming occasionally stiff from 1.00m bgl.	(0.90)	
1.20		V				Firm and occasionally stiff reddish brown and grey mottled slightly gravelly to gravelly slightly silty CLAY. Gravel is subangular fine to coarse siltstone, rare sandstone and quartzite. (THRUSSINGTON MEMBER) ... rare pockets of coarse orange brown sand from 1.50m bgl. ... occasional cobbles of siltstone from 1.70m bgl.	1.30	
1.50	3	ES	c _v =90/92/90			Trial pit terminated at 3.10m bgl.	3.10	
1.60	4	D						
1.60		V						

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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 3.10m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: EWild		Checked By: <i>ML</i>	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP37	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 129.34	National Grid Co-ordinate: E:430520.1 N:282287.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			[Cross-hatched pattern]	Turf over brown slightly clayey slightly gravelly fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to medium chert. (TOPSOIL)	0.15	[Graphic pattern]
0.35		CBR	3.8%			Light brown slightly gravelly slightly clayey to clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse quartzite, chert and siltstone. (THRUSSINGTON MEMBER)	0.40	[Graphic pattern]
0.70	2	D	c _u =96/102/100		[Cross-hatched pattern]	Firm to stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse coarse. Gravel is subangular to subrounded fine to coarse siltstone, quartzite and rare sandstone. (THRUSSINGTON MEMBER) ... rare cobbles of chert at 0.60m bgl. ... becoming firm from 1.00m bgl.		
0.80		V						
1.20		V	c _u =56/60/62			... becoming friable from 1.30m bgl. ... grey mottled from 1.40m bgl. ... becoming gravelly from 1.50m bgl. ... rare cobbles of siltstone from 1.60m bgl.	(2.40)	[Graphic pattern]
1.80	3	D				... rare black mottling from 1.80m bgl. ... rare flint gravel from 2.00m bgl.		[Graphic pattern]
Trial pit terminated at 2.80m bgl.							2.80	[Graphic pattern]

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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 2.80m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: EWild		Checked By: <i>[Signature]</i>	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP38	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 128.01	National Grid Co-ordinate: E:430570.0 N:282287.2	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.05	1	ES				Turf over dark brown slightly gravelly slightly clayey fine to coarse SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL)	0.10	
						Light brown slightly gravelly to gravelly slightly clayey fine to coarse SAND. Gravel is subangular gular to subrounded fine to coarse chert, siltstone and quartzite. (THRUSSINGTON MEMBER)	(0.40)	
						Firm to stiff reddish brown slightly gravelly slightly sandy slightly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite and siltstone. (THRUSSINGTON MEMBER) ... land drain at 1.00m bgl.	(1.00)	
0.70	2	ES				... light grey mottles from 1.30m bgl. ... rare black mottling from 1.30m bgl.		
1.20		V	$c_u=75/85/82$					
1.40	3	D				Firm to stiff friable reddish brown slightly gravelly slightly sandy slightly silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse siltstone, and rare quartzite. (ALLESLEY MEMBER) ... occasional fine grained sandstone gravel from 2.00m bgl.	1.50	
							(1.70)	
2.50	4	D						
							3.20	
						Trial pit terminated at 3.20m bgl.		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By: <i>ML</i>



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP39	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 126.27	National Grid Co-ordinate: E:430620.0 N:282287.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	ES			<p>Turf over light brown slightly gravelly slightly clayey fine to coarse SAND with frequent rootlets. Gravel is subangular fine to coarse chert. (TOPSOIL)</p> <p>Light brown slightly gravelly slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse quartzite, chert and siltstone. (THRUSSINGTON MEMBER)</p> <p>Very soft red brown very sandy CLAY. Sand is fine to coarse. (THRUSSINGTON MEMBER)</p>	0.10		
				(0.30)				
				0.40				
				(0.80)				
0.70	2	ES			<p>Firm to stiff red brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite, siltstone and mudstone. (THRUSSINGTON MEMBER)</p> <p>... grey and black mottling from 1.30m bgl.</p>	1.20		
0.80	3	D		(0.80)				
1.50		V	c _u =95/92/93					
1.60	4	D		(0.80)				
					Trial pit terminated at 2.00m bgl.		2.00	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild	Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40
Contract Ref: 252332	Start: 03.09.20 End: 03.09.20	Ground Level: 121.50	National Grid Co-ordinate: E:430720.0 N:282304.2	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30 0.35	1	ES CBR	6%			Turf over brown slightly gravelly slightly clayey slightly silty fine to coarse SAND with frequent roots and rootlets. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL)	0.15	
						Light orangish brown gravelly slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse sandstone and rare siltstone. (THRUSSINGTON MEMBER)	(0.45) 0.60	
0.80	2	D				Firm and locally stiff reddish / orangish brown slightly gravelly slightly silty slightly sandy CLAY with occasional subangular cobbles of sandstone. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse slate, siltstone, sandstone and chert. (THRUSSINGTON MEMBER)		
						... becoming red brown from 1.20m bgl. ... occasionally light grey mottled due to siltstone presence. ... occasional pockets of red sand from 1.40m bgl.		
2.00	3	D				... rare black mottling from 1.80m bgl.	(2.60)	
						... becoming grey brown from 2.40m bgl.		
2.80	4	D						
						Trial pit terminated at 3.20m bgl.	3.20	

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Plan (Not to Scale) 	General Remarks	
	1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 3.20m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40A	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: 121.50	National Grid Co-ordinate: E:430719.0 N:282304.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown slightly silty slightly clayey fine to coarse SAND with frequent rootlets. (TOPSOIL) Light brown and brown slightly gravelly clayey fine to coarse SAND with rare rootlets. Gravel is subangular fine to coarse chert. (THRUSSINGTON MEMBER) Hand pit terminated at 0.32m bgl.	0.20 0.32	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: EWild	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40B	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430721.0 N:282311.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown slightly silty clayey fine to coarse SAND with frequent roots and rootlets (TOPSOIL)	0.25	
0.30	2	ES				Light brown clayey fine to coarse SAND. (THRUSSINGTON MEMBER) Hand pit terminated at 0.30m bgl.	0.30	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: EWild	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40C	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430716.0 N:282313.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown slightly clayey silty fine to coarse SAND with occasional rootlets. (TOPSOIL)	0.20	
						Light orangish brown slightly gravelly slightly clayey fine to coarse SAND with rare rootlets. Gravel is subangular fine to coarse chert and quartzite. (THRUSSINGTON MEMBER) Hand pit terminated at 0.27m bgl.	0.27	

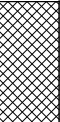
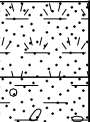
GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
 RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 10/11/20 - 16:43 | BS4 |

Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: AGS	
All dimensions in metres		Scale: 1:25	

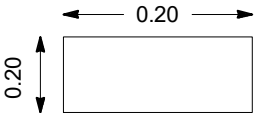


TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40D	
Contract Ref: 252332		Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430713.0 N:282305.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown very clayey fine to coarse SAND with abundant rootlets. (TOPSOIL)	0.25	
0.30	2	ES				Light brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to coarse chert and quartzite. (THRUSSINGTON MEMBER)	0.40	
						Hand pit terminated at 0.40m bgl.		

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: AGS	
All dimensions in metres		Scale: 1:25	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40E	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430721.0 N:282302.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			<div style="border: 1px solid black; padding: 2px;"> Turf over brown slightly clayey slightly silty fine to coarse SAND with abundant roots and rootlets. (TOPSOIL) </div> <div style="border: 1px solid black; padding: 2px;"> Light brown and pale grey slightly silty clayey fine to coarse SAND with occasional rootlets. (THRUSSINGTON MEMBER) Hand pit terminated at 0.28m bgl. </div>	0.20 0.28		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By:	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40F	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430721.0 N:282316.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown clayey fine to coarse SAND with abundant roots and rootlets. (TOPSOIL) Light orangish brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to medium chert. (THRUSSINGTON MEMBER) Han pit terminated at 0.28m bgl.	0.20 0.28	

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By:	
All dimensions in metres		Scale: 1:25	



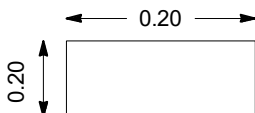


TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40G	
Contract Ref: 252332		Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430713.0 N:282316.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			 Turf over brown slightly silty slightly clayey to clayey fine to coarse SAND with frequent rootlets. (TOPSOIL)	0.20		
0.30	2	ES				Light brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular fine to medium chert. (THRUSSINGTON MEMBER) Hand pit terminated at 0.35m bgl.		0.35

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: EWild	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40H	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430711.0 N:282308.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown slightly silty fine to coarse SAND with abundant rootlets. (TOPSOIL)	0.15	
						Light brown slightly gravelly slightly silty fine to coarse SAND. Gravel is subangular fine to coarse chert and quartzite. (THRUSSINGTON MEMBER) Hand pit terminated at 0.25m bgl.	0.25	

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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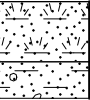
Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: EWild	
All dimensions in metres		Scale: 1:25	



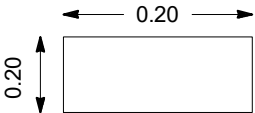



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40I	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430717.0 N:282300.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			 Turf over brown slightly silty slightly clayey fine to coarse SAND with abundant roots and rootlets. (TOPSOIL)	0.20		
0.25	2	ES				Brown slightly gravelly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular fine to medium chert and quartzite. (THRUSSINGTON MEMBER) Hand pit terminated at 0.32m bgl.		0.32


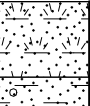
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 RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 10/11/20 - 16:44 | BS4 |

Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: 1:25	
			

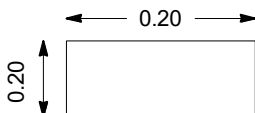



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40J	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430727.0 N:282318.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			 Turf over brown slightly gravelly clayey fine to coarse SAND with occasional roots and rootlets. Gravel is subangular fine to medium chert and rare brick. (TOPSOIL)	0.25		
0.30	2	ES				Light greyish brown slightly gravelly slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular fine to coarse chert and quartzite. (THRUSSINGTON MEMBER) Hand pit terminated at 0.35m bgl.		0.35

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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: 1:25	
			



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40K	
Contract Ref: 252332	Start: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430716.0 N:282321.0	Sheet: 1 of 1	
End: 22.10.20					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over slightly silty slightly clayey fine to coarse SAND with rare rootlets and brick fragments. (TOPSOIL)	0.20	
						Soft light brown slightly sandy slightly silty CLAY. Sand is fine to coarse. (THRUSSINGTON MEMBER) Hand pit terminated at 0.30m bgl.	0.30	

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Hand dug	Plant Used: Hand tools	Logged By: EWild	Checked By:



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40L	
Contract Ref: 252332	Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430709.0 N:282319.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			<div style="border: 1px solid black; padding: 2px;"> Turf over brown slightly silty slightly clayey fine to coarse SAND with frequent rootlets. (TOPSOIL) </div> <div style="border: 1px solid black; padding: 2px;"> Light orangish brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to medium quartzite. (THRUSSINGTON MEMBER) </div> <p style="text-align: center;">Hand pit terminated at 0.30m bgl.</p>	0.25 0.30		

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Plan (Not to Scale) <div style="text-align: center;"> </div>		<h3 style="text-align: center;">General Remarks</h3> <ol style="list-style-type: none"> Location scanned with CAT and Genny prior to breaking ground. No services encountered. Hand pit backfilled with arisings upon completion. 	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: EWild	
All dimensions in metres		Scale: 1:25	





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40M	
Contract Ref: 252332	Start: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430706.0 N:282310.0	Sheet: 1 of 1	
End: 22.10.20					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown slightly silty slightly clayey fine to coarse SAND with frequent rootlets. (TOPSOIL)	0.25	
0.30	2	ES				Brown slightly gravelly slightly clayey to clayey fine to coarse SAND. Gravel is subangular fine to coarse quartzite. (THRUSSINGTON MEMBER) Hand pit terminated at 0.33m bgl.	0.33	

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25	
Method Used: Hand dug	Plant Used: Hand tools	Logged By: EWild	Checked By:



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP40N	
Contract Ref: 252332		Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430707.0 N:282303.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES				Turf over brown slightly silty clayey fine to coarse SAND with frequent rootlets. (TOPSOIL)	0.20	
						Brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to coarse chert and quartzite. (THRUSSINGTON MEMBER) Hand pit terminated at 0.30m bgl.	0.30	

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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

Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By: EWild	
All dimensions in metres		Scale: 1:25	



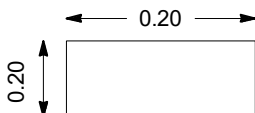



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP400	
Contract Ref: 252332		Start: 22.10.20 End: 22.10.20	Ground Level: ---	National Grid Co-ordinate: E:430715.0 N:282296.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			 Turf over brown slightly silty slightly clayey fine to coarse SAND with frequent rootlets. (TOPSOIL)	0.20		
0.25	2	ES				Light brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to coarse chert and quartzite. (THRUSSINGTON MEMBER)		0.30
Trial pit terminated at 0.30m bgl.								

GINT LIBRARY_V8_07.GLB LibVersion: v8_07 | Log TRIAL PIT LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
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Plan (Not to Scale) 		General Remarks 1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Hand pit backfilled with arisings upon completion.	
Method Used: Hand dug		Plant Used: Hand tools	
Logged By: EWild		Checked By:	
All dimensions in metres		Scale: 1:25	
			



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP41	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 128.02	National Grid Co-ordinate: E:430381.0 N:282245.9	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.40	1	ES CBR	4.8%			Dark brown slightly gravelly slightly sandy SILT. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse quartzite with occasional slate and lignite. (TOPSOIL)	(0.35)	
0.40						Firm to stiff reddish brown mottled orangish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse, and coarse in fissures. Gravel is subrounded fine to coarse quartzite and abundant slate and lignite. (THRUSSINGTON MEMBER)	0.35	
0.70		V	$c_u=88/98/108$			Stiff fissured reddish brown mottled grey CLAY with rare subrounded quartzite gravel. (THRUSSINGTON MEMBER)	(0.60)	
1.00	2	D				Stiff friable reddish brown mottled grey CLAY with occasional mudstone lithorelicts. (ALLESLEY MEMBER) ... Lithorelicts increasingly abundant with depth from 1.20m bgl.	1.10	
						Extremely weak to very weak reddish brown mottled grey MUDSTONE. Recovered as clayey fine to coarse subangular GRAVEL of tabular mudstone. Weathered black on fracture surfaces. (ALLESLEY MEMBER)	(0.30)	
						Trial pit terminated at 2.10m bgl.	2.10	

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Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 			
		All dimensions in metres		Scale: 1:25	
Method Used:	Machine dug	Plant Used:	JCB-3CX	Logged By:	BSowden
		Checked By:			



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP42
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 129.57	National Grid Co-ordinate: E:430420.1 N:282236.9	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	ES				Turf over brown slightly gravelly slightly clayey fine to coarse SAND with frequent roots and rootlets. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL)	0.15	
						Light orangish brown slightly clayey gravelly fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert, siltstone and quartzite. (THRUSSINGTON MEMBER) ... becoming light brown from 0.40m bgl.	(0.35) 0.50	
0.80	2	D				Stiff reddish brown slightly gravelly to gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, siltstone and quartzite. (THRUSSINGTON MEMBER) ... light grey and grey mottled from 1.20m bgl.		
1.40	3	D				... grey sandstone gravel and cobbles from 1.40m bgl. ... rare black mottling from 1.50m bgl.	(2.25)	
1.80	4	ES						
2.80	5	ES				... pocket of red brown sand at 2.70m bgl. Pinkish red slightly gravelly to gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse siltstone and rare sandstone. (ALLESLEY MEMBER) Trial pit terminated at 2.90m bgl.	2.75 2.90	

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Plan (Not to Scale) 	General Remarks	
	1. Location scanned with CAT and Genny prior to breaking ground. No services encountered. 2. Trial pit advanced to 2.90m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings upon completion.	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild Checked By:





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP43	
Contract Ref: 252332	Start: 04.09.20 End: 04.09.20	Ground Level: 130.50	National Grid Co-ordinate: E:430502.0 N:282219.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES	7.2%		[Cross-hatched pattern]	Black and dark brown gravelly slightly cobbly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse brick, concrete, sandstone, ash, plastic and coal. Cobbles are subangular brick and concrete. (MADE GROUND)	0.20	[Cross-hatched pattern]
0.30	2	ES				(0.40)		
0.40		CBR				0.60		
0.90	3	V	$c_u=80/78/90$			Firm light brown slightly silty slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse sandstone, rare brick, chert and quartzite. (MADE GROUND)	(0.70)	[Dotted pattern]
1.00		ES				Firm light brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse quartzite and chert. (THRUSSINGTON MEMBER)		
1.40	4	V	$c_u=94/130/94$	Firm to stiff red brown mottled light grey slightly silty slightly gravelly to gravelly CLAY. Gravel is subangular fine to coarse sandstone, siltstone and chert. (THRUSSINGTON MEMBER)	(1.80)	[Horizontal line pattern]		
1.50		D		... becoming friable from 2.00m bgl.				
2.20	5	D		... becoming frequent grey mottled and stiff from 2.20m bgl.				
Trial pit terminated at 3.10m bgl.							3.10	

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Plan (Not to Scale) 	General Remarks	
	<ol style="list-style-type: none"> Location scanned with GPR prior to breaking ground. No services encountered. Trial pit remained stable during excavation. Groundwater not encountered. Trial pit backfilled with arisings upon completion. 	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: EWild Checked By: <i>[Signature]</i>





TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP44	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 130.19	National Grid Co-ordinate: E:430518.4 N:282237.2	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.10	1	ES			Turf over dark brown slightly clayey slightly gravelly fine to coarse SAND with frequent rootlets and roots. Gravel is subangular fine to coarse chert, rare brick and rare concrete. (MADE GROUND)	0.15	[Cross-hatch pattern]	
0.20	2	ES				Light brown and brown slightly clayey gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse brick, chert, ceramics, sandstone and rare cobbles of brick. (MADE GROUND)		0.40
						Trial pit terminated at 0.40m bgl due to assumed water pipe running West to East through pit.		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services detected. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: EWild		Checked By: <i>[Signature]</i>	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP44A	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 130.19	National Grid Co-ordinate: E:430518.0 N:282241.0	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.70	1	D			<p>Turf over dark brown slightly clayey slightly gravelly fine to coarse SAND with frequent rootlets and roots. Gravel is subangular fine to coarse chert, rare brick and rare concrete. (MADE GROUND)</p> <p>Light brown and brown slightly clayey gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse brick, chert, ceramics, sandstone and rare cobbles of brick. (MADE GROUND)</p> <p>Yellow brown slightly clayey gravelly fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert, siltstone and quartzite. (THRUSSINGTON MEMBER)</p> <p>Firm reddish brown slightly sandy slightly gravelly to gravelly CLAY. Sand is medium to coarse. Gravel is subangular to subrounded fine to coarse siltstone, chert, quartzite, rare sandstone and mudstone. (THRUSSINGTON MEMBER) ... grey mottled from 1.00m bgl. ... becoming friable from 1.30m bgl. ... cobbles of subangular platy sandstone from 1.50m bgl.</p>	0.15		
						0.40		
						0.60		
2.00	2	D				(2.00)		
2.20	3	ES						
						Trial pit terminated at 2.60m bgl.	2.60	

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: EWild		Checked By: EWild	
All dimensions in metres		Scale: 1:25	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP45	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 128.89	National Grid Co-ordinate: E:430570.0 N:282237.2	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.15	1	ES			Turf over brown slightly clayey fine to coarse SAND with frequent rootlets. (TOPSOIL)	0.10		
								0.20
0.50	2	ES			Light brown slightly gravelly to gravelly slightly clayey fine to coarse SAND with rare rootlets. Gravel is subangular to subrounded fine to coarse chert. (THRUSSINGTON MEMBER)	(0.60)		
								0.80
1.00	3	D			Light yellowish brown slightly clayey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert, siltstone and quartzite. (THRUSSINGTON MEMBER)	(0.40)		
1.20	V		$c_u=80/70/80$					1.20
1.80	4	D			Firm reddish brown slightly sandy very gravelly to gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse siltstone and mudstone. (THRUSSINGTON MEMBER)	(2.00)		
1.80	V		$c_u=110/110/106$					3.20
					Firm reddish brown slightly sandy gravelly CLAY with calcareous concretions along fissures. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse siltstone and mudstone. (ALLESLEY MEMBER) ... becoming light grey mottled from 1.30m bgl. ... frequent light grey mottling and siltstone gravel from 1.50m bgl. ... becoming stiff from 1.70m bgl. ... rare cobbles of subangular siltstone at 2.50m bgl.			
Trial pit terminated at 3.20m bgl.								

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: EWild		Checked By: <i>ML</i>	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP46	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 128.38	National Grid Co-ordinate: E:430470.0 N:282187.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.05	1	ES				Turf over brown slightly gravelly slightly clayey fine to coarse SAND with frequent rootlets and roots. Gravel is subangular to subrounded fine to coarse chert and rare pieces of rope. (TOPSOIL)	0.10	
0.40	2	ES				Firm to stiff orangish brown slightly sandy gravelly CLAY with occasional rootlets. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, siltstone and quartzite. (THRUSSINGTON MEMBER) ... losing rootlets from 0.40m bgl. ... becoming reddish brown from 0.50m bgl and crumbly.	(0.70)	
0.90	3	D				Firm to stiff orangish brown slightly sandy slightly gravelly CLAY with occasional calcareous concretions along fissures. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse siltstone and rare sandstone. (ALLESLEY MEMBER) ... becoming occasionally light grey mottled from 1.30m bgl. ... stiff from 1.50m bgl. ... becoming paler brown and light grey mottled from 1.60m bgl.	0.80	
1.90	4	D				... rare to frequent cobbles of subangular sandstone from 2.00m bgl,	(1.80)	
							2.60	
Trial pit terminated at 2.60m.								

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Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion. 	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: EWild		Checked By:	
All dimensions in metres		Scale: 1:25	



TRIAL PIT LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Trial Pit: TP47	
Contract Ref: 252332	Start: 02.09.20 End: 02.09.20	Ground Level: 130.16	National Grid Co-ordinate: E:430530.9 N:282181.8	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.05	1	ES				Turf over brown slightly silty fine to coarse SAND with frequent rootlets. (TOPSOIL)	0.10	
0.30 0.35	2	ES CBR	8.5%			Light brown slightly gravelly slightly silty slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert and quartzite. (THRUSSINGTON MEMBER) ... becoming clayey from 0.50m bgl.	(0.50) 0.60	
0.90 1.00	3	D V	c _u =65/64/58			Firm reddish brown slightly silty slightly gravelly to gravelly CLAY. Gravel is subangular to subrounded fine to coarse quartzite and chert. (THRUSSINGTON MEMBER) ... land drain at 0.70m bgl.	(0.60) 1.20	
						Firm friable reddish brown slightly silty slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse sandstone and rare quartzite. (ALLESLEY MEMBER) ... occasional pockets of light greenish grey clay from 1.50m bgl. ... gravel of yellow coarse grained sandstone from 1.70m bgl. ... rare black mottling from 2.00m bgl. ... light grey siltstone gravel from 2.20m bgl.	(1.80) 3.00	
						Trial pit terminated at 3.00m bgl.		

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Plan (Not to Scale) 		General Remarks 1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Trial pit remained stable during excavation. 3. Groundwater not encountered. 4. Trial pit backfilled with arisings upon completion.	
Method Used: Machine dug		Plant Used: JCB-3CX	
All dimensions in metres		Scale: 1:25	
Logged By: EWild		Checked By:	



BOREHOLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Borehole: BH1	
Contract Ref: 252332	Start: 17.09.20	Ground Level: 124.53	National Grid Co-ordinate: E:430620.0 N:282337.0	Sheet: 1 of 1	
End: 17.09.20					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	ES				Turf over soft brown slightly silty slightly gravelly clayey fine to coarse SAND. Gravel is subangular fine to medium chert. (TOPSOIL)	0.40	
1.20	2	U	75 blows			Loose reddish brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subangular fine to coarse sandstone, chert and siltstone. (THRUSSINGTON MEMBER) ... occasional pockets of sandy clay from 1.00m bgl.	(2.50)	
1.70	3	D						
2.00-2.45	1	SPT	N=42					
2.00	4	B						
2.70	5	D				... becoming gravelly from 250m bgl with frequent weakly cemented sandstone and occasional cemented sandstone.	2.90	
3.00-3.45	2	SPT	N=33			Firm to stiff orangish red brown slightly gravelly slightly clayey SILT. Gravel is subangular to subrounded fine to medium sandstone and siltstone. (ALLESLEY MEMBER)		
3.00	6	B						
3.70	7	D				... becoming clayey from 3.70m bgl with occasional grey mottling.		
4.00-4.45	3	SPT	N=42					
4.00	8	B					(2.80)	
4.70	9	D						
5.00-5.27	4	SPT	N:50 for 120mm			... losing light grey mottling from 5.00m bgl.		
5.00	10	B						
5.50-5.78	5	SPT	N:50 for 125mm					
5.70-6.05	6	SPT	N:50 for 200mm			Borehole terminated at 5.70m bgl on very dense silt.	5.70	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
17/09/20		5.70	-	150		5.00	5.50	00:30	1. Location scanned with GPR prior to breaking ground. 2. Borehole advanced to 5.70m bgl. 3. Groundwater not encountered. 4. Gas and groundwater monitoring well installed to 5.70m bgl upon completion.	
						5.50	5.70	00:45		
Method Used: Cable percussion						Plant Used: Dando 175			All dimensions in metres Scale: 1:50	
Drilled By: Borehole Solutions			Logged By: EWild			Checked By: <i>ME</i>				



BOREHOLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Borehole: BH2	
Contract Ref: 252332		Start: 17.09.20 End: 17.09.20	Ground Level: 125.63	National Grid Co-ordinate: E:430670.0 N:282237.1	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	ES				Turf over light brown slightly gravelly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular fine to medium chert. (TOPSOIL)	0.15	
1.20-1.65	1	SPT	N=13			Soft orangish brown slightly gravelly slightly silty CLAY. Gravel is subangular fine to medium chert and occasional quartzite. . . . becoming soft to firm from 0.50m bgl.	(2.35)	
1.20-1.70	2	B						
1.90	3	D	100 blows 22% recovery			Soft to firm orangish brown slightly gravelly slightly silty CLAY. Gravel is subangular fine to medium sandstone and rare quartzite. (ALLESLEY MEMBER) . . . becoming firm from 3.00m bgl.	2.50	
2.00-2.45	4	U						
2.50	5	D				. . . rare mudstone gravel from 3.70m bgl.	(2.50)	
3.00-3.45	2	SPT	N=29					
3.00-3.50	6	B				. . . pocket of softer clay at 4.50m bgl.	5.00	
3.70	7	D						
4.00-4.45	8	U	100 blows 9% recovery			Orange brown slightly gravelly slightly clayey SILT. Gravel is subangular fine to coarse sandstone, siltstone and rare mudstone. (ALLESLEY MEMBER) . . . become crumbly powder from 6.20m to 6.60m due to chiselling.	(1.60)	
4.50	9	D						
5.00-5.45	3	SPT	N=50			Borehole terminated at 6.60m bgl.	6.60	
5.00-6.00	10	B						
6.20-6.56	4	SPT	N:50 for 210mm					
6.20-6.60	11	B						
6.60-6.75	5	SPT(c)	N:50 for 95mm					

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
17/09/20		6.60	1.50	150	Dry	6.00	6.60	01:00	
All dimensions in metres Scale: 1:50									
Method Used: Cable percussion		Plant Used: Dando 175		Drilled By: Borehole Solutions		Logged By: EWild		Checked By: <i>ME</i>	

1. Location scanned with GPR prior to breaking ground. No services encountered.
2. Borehole advanced to 6.60m bgl.
3. Groundwater not encountered.
4. Gas and groundwater monitoring well installed to 6.60m bgl upon completion.





BOREHOLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Borehole: BH3	
Contract Ref: 252332		Start: 16.09.20 End: 17.09.20	Ground Level: 129.63	National Grid Co-ordinate: E:430569.9 N:282187.1	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	ES				Turf over brown slightly gravelly slightly clayey fine to coarse SAND with occasional rootlets. Gravel is angular to subrounded fine to coarse chert. (TOPSOIL) ... becoming clayey from 0.20m bgl.	0.40	
1.20-1.65	2	U	50 blows 22% recovery			Soft light brown slightly sandy slightly silty slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, sandstone and quartzite. (THRUSSINGTON MEMBER) ... becoming firm and reddish brown from 0.80m bgl.	(2.20)	
1.70	3	D						
2.00-2.45	1	SPT	N=26					
2.00-2.50	4	B						
							2.60	
2.70	5	D				Firm to stiff light brown and reddish brown slightly sandy slightly silty slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded sandstone. (ALLESLEY MEMBER)		
3.00-3.45	6	U	75 blows 22% recovery					
3.50	7	D						
4.00-4.45	2	SPT	N=27			... becoming brown from 4.00m bgl.		
4.00-4.45	8	B				... occasional grey mottled from 4.50m bgl.	(4.00)	
4.70	9	D						
5.00-5.45	3	SPT	N=49			... becoming stiff from 5.00m bgl.		
5.00-5.50	10	B						
6.00	11	D						
6.50-6.95	4	SPT	N=50			Reddish brown and occasional grey slightly silty angular to subrounded fine to coarse GRAVEL of weakly cemented sandstone and occasional mudstone. (ALLESLEY MEMBER)	6.60	
6.50-7.50	12	B					(1.40)	
7.50	13	D						
8.00-8.36	5	SPT	N:50 for 210mm			Borehole terminated at 8.00m bgl.	8.00	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)				
16/09/20		8.00	150.00	150	Dry	7.50	8.00	01:50	1. Location scanned with GPR prior to breaking ground. No services located. 2. Borehole advanced to 8.00m bgl. 3. Groundwater not encountered. 4. Gas and groundwater monitoring well installed to 8.00m bgl upon completion.			
Method Used: Cable percussion						Plant Used: Dando 175		Drilled By: Borehole Solutions		Logged By: EWild	Checked By: <i>ME</i>	

All dimensions in metres Scale: **1:50**



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS1	
Contract Ref: 252332	Start: 16.09.20	Ground Level: 120.58	National Grid Co-ordinate: E:430570.0 N:282637.1	Sheet: 1 of 1	
End: 16.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.10	1	ES			Turf over brown slightly gravelly slightly clayey to clayey fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	0.20		
	0.50	2	D			Firm red brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite and sandstone (THRUSSINGTON MEMBER)	(1.30)		
	1.20-1.65	1	SPT	N=16		... becoming firm to stiff from 1.20m bgl.	1.50		
	1.80	3	D			Medium dense red brown slightly gravelly slightly silty fine to medium SAND. Gravel is subangular fine to coarse sandstone. (ALLESLEY MEMBER)	(1.20)		
	2.00-2.45	2	SPT	N=43			2.70		
	2.50	4	ES			Dense red brown fine to coarse SAND and subangular fine to coarse gravel of sandstone. (ALLESLEY MEMBER)	(0.30)		
	3.00-3.38	3	SPT	N:50 for 230mm		Borehole terminated at 3.00m bgl due to refusal of sampling barrel and SPT.	3.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS2	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 128.34	National Grid Co-ordinate: E:430370.0 N:282586.9	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
						Brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse quartzite, chert and rare brick fragments. (TOPSOIL)	(0.30)	
	0.40	1	ES			Firm reddish brown slightly gravelly to gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite and sandstone. (THRUSSINGTON MEMBER)	0.30	
	1.20-1.65	1	SPT	N=12		... occasional mottled light grey and siltstone gravel present from 1.20m bgl. ... orange brown sandstone gravel present from 1.30m bgl. ... pocket and damp material at 1.45m bgl.	(1.50)	
	1.50	2	D					
	2.00-2.45	2	SPT	N=24		Firm to stiff reddish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite and sandstone. (ALLESLEY MEMBER)	1.80	
	2.70	3	ES			... stiff from 2.70m bgl. ... becoming stiff to very stiff from 2.80m bgl.	(1.20)	
	2.90	4	D					
	3.00-3.45	3	SPT	N=52		Borehole terminated at 3.00m bgl due SPT refusal.	3.00	

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 3.00m bgl upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD						Logged By: EWild	
Checked By: <i>ML</i>							



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS3	
Contract Ref: 252332		Start: 15.09.20	Ground Level: 126.66	National Grid Co-ordinate: E:430469.8 N:282583.8	Sheet: 1 of 1

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.50	1	ES			Soft to firm light orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite, sandstone and rare plastic. (TOPSOIL)	(0.70)		
	1.00	2	D			Firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse sandstone and chert. (THRUSSINGTON MEMBER)	(0.80)		
	1.20-1.65	1	SPT	N=9		... frequent sandstone gravel from 1.30m bgl. ... sandy pocket between 1.38m and 1.45m bgl.	1.50		
	1.70	3	ES			Loose red brown slightly silty slightly clayey slightly gravelly fine to coarse SAND. Gravel is subangular fine to coarse sandstone and quartzite. (THRUSSINGTON MEMBER) ... material damp from 1.70m bgl.	(0.40)		
	1.90	2	SPT	N=12		Firm to stiff red brown slightly sandy slightly silty slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium sandstone and siltstone. (ALLESLEY MEMBER) ... sandy between 2.00m and 2.15m bgl. ... sandy between 2.40m and 2.60m bgl.	(1.10)		
	2.80	4	D			... becoming stiff from 2.80m bgl.	3.00		
	3.00-3.45	3	SPT	N=24		Medium dense red brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is subangular fine to coarse sandstone. (ALLESLEY MEMBER)	3.20		
	3.50	5	D			Stiff red brown mottled occasional light grey slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse sandstone and rare siltstone. (ALLESLEY MEMBER)	(0.40)		
	3.60					Medium dense red brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to coarse sandstone. (ALLESLEY MEMBER)	3.80		
	4.00-4.45	4	SPT	N=50		Stiff red brown slightly silty slightly gravelly CLAY. Gravel is subangular fine to medium sandstone. (ALLESLEY MEMBER)	4.00		
Borehole terminated at 4.00m bgl due to refusal of sampling barrel and SPT.									

Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)

<ol style="list-style-type: none"> Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. Groundwater seepage encountered at 2.00m bgl. Borehole backfilled with arisings upon completion.
All dimensions in metres Scale: 1:25

Method Used: Tracked window sampling	Plant Used: Premier Compact 110	Drilled By: DSUK LTD	Logged By: EWild	Checked By: <i>ME</i>	
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WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS4	
Contract Ref: 252332	Start: 16.09.20 End: 16.09.20	Ground Level: 122.27	National Grid Co-ordinate: E:430562.1 N:282593.0	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
						Turf over brown slightly gravelly slightly clayey fine to coarse SAND with occasional rootlets. Gravel is subangular fine to coarse chert. (TOPSOIL)	0.20	
	0.40	1	ES			Firm light brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium chert and quartzite. (THRUSSINGTON MEMBER)	(1.20)	
	1.20-1.65	1	SPT	N=8				
	1.30	2	D					
	1.20 - 2.00 (87mm dia) 100% rec							
	1.80	3	D					
	2.00-2.45	2	SPT	N=40		... becoming medium dense to dense from 2.00m bgl. ... slightly clayey from 2.20m bgl.	(1.60)	
	2.00 - 3.00 (77mm dia) 100% rec							
	2.50	4	ES			... frequent light grey mottling from 2.70m bgl.		
	3.00-3.37	3	SPT	N:50 for 220mm		Borehole terminated at 3.00m bgl.		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 3.00m bgl upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	





WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS5	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 129.96	National Grid Co-ordinate: E:430320.0 N:282537.0	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
0.10	1	ES					Brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare brick fragments. (TOPSOIL)	(0.30)	
							0.30		
0.50	2	ES					Firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded fine to medium quartzite. (THRUSINGTON MEMBER)	(2.25)	
1.20-1.65	1	SPT	N=8				... sandstone gravel present from 1.20m bgl. ... becoming sandy from 1.30m bgl.	(2.25)	
							1.40		
1.80	4	D					... occasionally light grey mottled with fine siltstone gravel present from 1.80m bgl.	(2.25)	
							2.00-2.45		
2.00-2.45	2	SPT	N=17				... stiff from 2.00m bgl to 2.50m bgl.	(2.55)	
2.00-3.00	3	SPT	N=50 for 235mm				... pockets of very sandy clay between 2.35m and 2.42m bgl.	(2.55)	
3.00-3.39	3	SPT	N=50 for 235mm				Medium dense red brown slightly silty clayey fine to coarse SAND. (ALLESLEY MEMBER)	(0.45)	
							... sandstone gravel present from 2.90m bgl. ... becoming occasional light greenish grey mottled from 2.95m bgl.	3.00	
							Borehole terminated at 3.00m bgl due to refusal of sampling barrel and SPT.		

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Drilling Progress and Water Observations						General Remarks						
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)							
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.						
All dimensions in metres						Scale:	1:25					
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD	Logged By:	EWild	Checked By:	<i>ME</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS6	
Contract Ref: 252332	Start: 15.09.20 End: 15.09.20	Ground Level: 128.19	National Grid Co-ordinate: E:430419.9 N:282536.8	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.20	1	ES				Soft slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	(0.30)	
							Soft to firm light greyish brown slightly silty slightly gravelly to gravelly CLAY. Gravel is subangular to rounded fine to coarse chert, quartzite and sandstone. (THRUSSINGTON MEMBER)	0.30	
	0.70	2	D				... becoming sandy from 1.30m bgl. ... pocket of sand between 1.50m and 1.55m bgl.	(1.70)	
	1.20-1.65	1	SPT	N=16					
1.20 - 2.00 (87mm dia) 100% rec 	1.70	3	D				Medium dense red brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to coarse sandstone. (THRUSSINGTON MEMBER)	2.00	
	2.00-2.45	2	SPT	N=16					
2.00 - 3.00 (77mm dia) 100% rec 	2.00	4	ES				Firm to stiff red brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse quartzite, sandstone and rare mudstone. (ALLESLEY MEMBER) ... becoming brown from 2.70m bgl.	(0.90)	
	3.00-3.45	3	SPT	N=52					
							Borehole terminated at 3.00m bgl due to SPT refusal.	3.00	

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS7	
Contract Ref: 252332	Start: 17.09.20	Ground Level: 126.48	National Grid Co-ordinate: E:430490.0 N:282536.7	Sheet: 1 of 1	
End: 17.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.30	1	ES			Brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to rounded fine to coarse chert and quartzite. (TOPSOIL)	0.20		
						Loose orangish brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert, quartzite and occasional sandstone (THRUSSINGTON MEMBER)	(0.50)		
						Firm red brown slightly sandy slightly gravelly to gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse chert, quartzite and sandstone. (THRUSSINGTON MEMBER)	0.70		
	1.20-1.65	1	SPT	N=16		... siltstone gravel present from 1.20m bgl.	(1.00)		
	1.30	2	D						
	1.20 - 2.00 (77mm dia) 95% rec								
	1.80	3	ES			Firm red brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse sandstone. (ALLESLEY MEMBER)			
	2.00-2.45	2	SPT	N=24		... becoming occasional light grey mottled from 1.70m bgl. ... becoming silty from 2.00m bgl.	1.70		
	2.00 - 3.00 (67mm dia) 100% rec								
	2.60	4	D				(2.30)		
	3.00-3.45	3	SPT	N=20					
	3.00 - 4.00 (57mm dia) 90% rec								
	3.80	5	D						
	4.00-4.40	4	SPT	N:50 for 250mm		... becoming stiff from 3.95m bgl. Borehole terminated at 4.00m bgl due to SPT refusal.	4.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS8	
Contract Ref: 252332	Start: 16.09.20	Ground Level: 120.87	National Grid Co-ordinate: E:430619.3 N:282536.4	Sheet: 1 of 1	
End: 16.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
<p>1.20 - 2.00 (87mm dia) 100% rec</p>	0.30	1	ES			Turf over light brown slightly silty slightly gravelly fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert, quartzite and sandstone. (TOPSOIL)	0.20 (0.30)		
						Loose light brown slightly gravelly to gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse sandstone, chert and quartzite. (THRUSSINGTON MEMBER)	0.50		
	1.20-1.65 1.20	1 2	SPT D	N=14			Firm red brown slightly sandy slightly gravelly to gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert and sandstone. (THRUSSINGTON MEMBER)	(1.40)	
							... tree root at 1.40m bgl. ... becoming firm to stiff from 1.60m bgl.		
	1.90 2.00-2.40	3 2	D SPT	N:50 for 245mm			Dense red brown slightly gravelly fine to coarse SAND. Gravel is subangular fine to medium sandstone. (ALLESLEY MEMBER) Borehole terminated at 2.00m bgl due to SPT refusal.	1.90 2.00	

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>ML</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS9	
Contract Ref: 252332	Start: 18.09.20	Ground Level: 129.05	National Grid Co-ordinate: E:430419.6 N:282487.1	Sheet: 1 of 1	
End: 18.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend			
	Depth	No	Type	Results								
	0.20	1	ES	N=16			Soft brown slightly gravelly slightly clayey SILT. Gravel is subangular to subrounded fine to medium chert. (TOPSOIL)	0.10				
								Soft light brown slightly gravelly slightly clayey SILT. Gravel is subangular to subrounded fine to coarse chert and occasional quartzite. (THRUSSINGTON MEMBER) ... occasional cobbles of subangular chert from 0.40m bgl.		(0.60)		
	1.00	2	D	N=12			Firm orangish brown slightly gravelly slightly sandy slightly silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse chert, quartzite and rare weakly cemented sandstone. (THRUSSINGTON MEMBER)	(0.40)				
	1.20-1.60 1.25-1.70	3 1	B SPT				Loose to medium dense light brown gravelly fine to coarse SAND. Gravel is subangular fine to coarse sandstone and chert. (THRUSSINGTON MEMBER) ... becoming red brown from 1.30m bgl. ... occasional clayey pockets between 1.30m and 1.60m bgl.	(0.55)				
	1.90 2.00-2.45	4 2	D SPT				Firm and locally stiff red brown slightly gravelly slightly silty CLAY. Gravel is subangular to subrounded fine to medium chert, siltstone and rare sandstone and mudstone. (ALLESLEY MEMBER) ... band of brown fine to coarse sand between 2.00m and 2.15m bgl.	(0.95)				
	2.70 2.80-3.15	5 3	D SPT	N:50 for 200mm			Red brown slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is subangular fine to medium sandstone and occasional siltstone. (ALLESLEY MEMBER)	(0.40)				
	Borehole terminated at 3.00m bgl due to refusal of sampling barrel and SPT.											

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Drilling Progress and Water Observations						General Remarks
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.
All dimensions in metres						
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By: DSUK LTD Logged By: EWild Checked By: <i>ME</i>





WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS10	
Contract Ref: 252332	Start: 17.09.20 End: 17.09.20	Ground Level: 124.42	National Grid Co-ordinate: E:430570.0 N:282487.1	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.10	1	ES			Brown slightly gravelly clayey fine to coarse SAND with rare rootlets. Gravel is subangular to rounded fine to coarse chert and quartzite. (TOPSOIL)	0.20		
	0.80	2	D			Firm orange/red/brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite and occasional sandstone. (THRUSSINGTON MEMBER)	(1.60)		
	1.20-1.65	1	SPT	N=8					
	1.50	3	D						
	2.00-2.45	2	SPT	N=51					
	2.50	4	ES			Firm orange/red/brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone. (ALLESLEY MEMBER) ... becoming firm to stiff from 1.80m bgl. ... becoming slightly silty from 2.70m bgl.	(1.20)		
						Borehole terminated at 3.00m bgl due to refusal.	3.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD						Logged By: EWild	
Checked By: <i>ML</i>							



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS11	
Contract Ref: 252332	Start: 14.09.20	Ground Level: 117.87	National Grid Co-ordinate: E:430670.0 N:282487.1	Sheet: 1 of 1	
End: 14.09.20					

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
						Turf over brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	0.20	
	0.40	1	ES			Loose reddish brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert, rare sandstone and quartzite. (THRUSSINGTON MEMBER)	(1.30)	
	1.20-1.65	1	SPT	N=16			1.50	
	1.70	2	D			Loose to medium dense reddish brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse sandstone and rare chert and quartzite. (ALLESLEY MEMBER)	(1.40)	
	2.00-2.45	2	SPT	N=15		... becoming slightly clayey from 1.50m bgl. ... frequent weakly cemented sandstone gravel from 1.60m bgl. ... material damp from 2.20m bgl. ... becoming clayey from 2.40m bgl.		
	2.50	3	ES				2.90	
	2.90	4	D			... grey siltstone gravel from 2.80m bgl.		
	3.00-3.36	3	SPT	N:48 for 210mm		Dense red brown and rare grey mottled slightly clayey sandy angular to subangular fine to coarse GRAVEL of sandstone and rare siltstone. (ALLESLEY MEMBER)	3.00	
						Borehole terminated at 3.00m bgl due to refusal of sampling barrel and SPT.		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 3.00m bgl upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ML</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS12	
Contract Ref: 252332	Start: 18.09.20	Ground Level: 129.66	National Grid Co-ordinate: E:430320.8 N:282435.2	Sheet: 1 of 1	
End: 18.09.20					

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
	0.20	1	ES			Dark brown slightly gravelly slightly clayey SILT. Gravel is subangular fine to medium chert and quartzite. (TOPSOIL)	(0.30)	
						Firm brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular fine to medium chert and quartzite. (THRUSSINGTON MEMBER)	(1.00)	
	1.20-1.65	1	SPT	N:50 for 295mm		Dense light grey gravelly slightly silty fine to coarse SAND. Gravel is subangular fine sandstone. (THRUSSINGTON MEMBER) ... becoming red brown mottled from 1.60m to 1.70m bgl.	1.30	
	1.30-1.60	2	B			... band of slightly sandy clay between 2.00m to 2.15m bgl. ... becoming light grey and red brown mottled from 2.20m bgl.	(1.10)	
	2.00-2.43	2	SPT(c)	N:50 for 275mm		Firm red brown slightly silty CLAY. (ALLESLEY MEMBER)	2.40	
	2.00	3	ES			Red brown slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is subangular fine to coarse sandstone and occasional mudstone. (ALLESLEY MEMBER)	(0.45)	
	2.80	4	D				2.55	
	3.00-3.43	3	SPT(c)	N:50 for 275mm		Borehole terminated at 3.00m bgl.	3.00	

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 3.00m bgl upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>ME</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS13	
Contract Ref: 252332	Start: 18.09.20	Ground Level: 130.10	National Grid Co-ordinate: E:430370.0 N:282437.1	Sheet: 1 of 1	
End: 18.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.20	1	ES			Brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to medium chert and quartzite. (TOPSOIL) ... becoming sandy from 1.20m bgl.	0.30		
	1.20-1.65	1	SPT	N=12					
	1.40	2	D				... light grey mottled from 1.40m bgl.	(2.55)	
	2.00-2.45	2	SPT	N=22			... pocket of bright yellow sand at 1.70m bgl. ... occasional mudstone gravel from 1.80m bgl.		
	2.30	3	ES				... becoming brown and stiff from 2.00m bgl.		
	2.90	4	D						
	3.00-3.38	3	SPT	N:50 for 225mm			Red brown slightly gravelly slightly clayey to clayey SILT. Gravel is subangular fine to medium sandstone and occasional mudstone. (ALLESLEY MEMBER) Borehole terminated at 3.00m bgl due to refusal of sampling barrel and SPT.	3.00	

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Drilling Progress and Water Observations						General Remarks
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)	
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.
All dimensions in metres						
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By: DSUK LTD Logged By: EWild Checked By: <i>ML</i>





WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS14	
Contract Ref: 252332	Start: 17.09.20	Ground Level: 127.02	National Grid Co-ordinate: E:430520.1 N:282437.1	Sheet: 1 of 1	
End: 17.09.20					

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
	0.20	1	ES			Brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to medium chert and quartzite. (TOPSOIL)	(0.30)	
						Soft to firm orangish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone and quartzite. (THRUSSINGTON MEMBER) ... becoming firm from 0.70m bgl.	0.30	
	1.20-1.65	1	SPT	N=14		... becoming slightly silty from 1.20m bgl. ... light grey mottled from 1.30m bgl.	(2.30)	
	1.40	2	D					
	2.00-2.45	2	SPT	N=18				
	2.30	3	ES					
	3.00-3.45	3	SPT	N=36		Firm to stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone. (ALLESLEY MEMBER) ... becoming firm to stiff from 2.60m bgl. ... becoming firm and gravelly from 3.10m bgl.	2.60	
	3.50	4	D					
	4.00-4.38	4	SPT	N:50 for 225mm		... frequent grey and orange brown sandstone from 3.80m bgl.	4.00	
						Borehole terminated at 4.00m bgl due to SPT refusal.		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 3.00m bgl upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS15	
Contract Ref: 252332		Start: 18.09.20	Ground Level: 128.16	National Grid Co-ordinate: E:430273.6 N:282390.6	Sheet: 1 of 1
End: 18.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.40	1	ES			Soft to firm brown slightly silty slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium chert and quartzite. (TOPSOIL)	(0.30)		
						Firm red brown slightly silty slightly gravelly CLAY. Gravel is subangular fine to coarse mudstone, sandstone and chert. (THRUSSINGTON MEMBER)	0.30		
								(0.90)	
	1.20-1.65	1	SPT	N=11			Orangish brown mottled grey slightly gravelly slightly clayey SILT. Gravel is subangular to subrounded fine to medium siltstone, mudstone and rare sandstone. (THRUSSINGTON MEMBER)	1.20	
	1.50	2	D				... becoming sandy from 1.50m bgl, sand is fine.	(0.40)	
	1.90	3	D				Medium dense to dense orangish brown slightly silty angular to subangular fine to coarse GRAVEL of sandstone and mudstone. (THRUSSINGTON MEMBER)	1.60	
2.00-2.37	2	SPT	N:50 for 220mm			... occasional staining on gravel from 1.80m bgl.	(0.40)		
						Borehole terminated at 2.00m bgl due to refusal of sampling barrel and SPT.	2.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>ML</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS16	
Contract Ref: 252332	Start: 17.09.20	Ground Level: 130.21	National Grid Co-ordinate: E:430420.1 N:282387.0	Sheet: 1 of 1	
End: 17.09.20					

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
	0.10	1	ES			Soft dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium chert and rare brick fragments. (TOPSOIL)	0.20	
	0.40	2	ES			Soft to firm orange brown slightly silty slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare sandstone. (THRUSSINGTON MEMBER)		
						... becoming slightly sandy from 1.00m bgl.	(1.80)	
	1.20-1.65	1	SPT	N=12		... sandy between 1.20m and 1.50m bgl.		
	1.40	3	D			... firm to stiff from 1.60m bgl.		
							2.00	
	2.00-2.45	2	SPT	N=18		Medium dense red brown clayey fine to coarse SAND. (ALLESLEY MEMBER)	2.15	
						Firm to stiff red brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, mudstone and rare siltstone. (ALLESLEY MEMBER)	(0.85)	
	2.80	4	D				3.00	
	3.00-3.42	3	SPT	N:50 for 270mm		Borehole terminated at 3.00m bgl.		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 3.00m bgl upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>ML</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS17	
Contract Ref: 252332	Start: 16.09.20 End: 16.09.20	Ground Level: 127.86	National Grid Co-ordinate: E:430519.8 N:282386.8	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
						Brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse chert and quartzite. (TOPSOIL)	(0.30)		
	0.40	1	ES			Soft to firm light reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite and sandstone. (THRUSSINGTON MEMBER)	0.30		
	1.20-1.65	1	SPT	N=10		... rare purple brown pockets from 1.20m bgl.			
	1.70	2	D			... becoming firm to stiff from 1.50m bgl.	(2.80)		
	2.00-2.45	2	SPT	N=36		... becoming sandy from 2.00m bgl.			
	2.20	3	ES			... orange pockets from 2.20m bgl. ... liner damp on outside from 2.30m bgl.			
	3.00-3.45	3	SPT	N=32		Medium dense red brown slightly silty gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse sandstone and siltstone. (ALLESLEY MEMBER)	3.10		
	3.60	4	D			Firm red brown slightly sandy SILT. Sand is fine to coarse. (ALLESLEY MEMBER)	(0.50)		
	3.80-4.07	4	SPT	N:50 for 125mm			(0.40)		
						Borehole terminated at 4.00m bgl due to refusal of sampling barrel and SPT.	4.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	





WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS18	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 122.01	National Grid Co-ordinate: E:430620.0 N:282387.0	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.20	1	ES			Turf over light brown slightly silty slightly gravelly fine to coarse SAND with occasional rootlets. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare sandstone. (TOPSOIL)	(0.40)		
	0.40					Light brown and occasionally brown slightly silty slightly gravelly fine to coarse SAND with rare rootlets. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare sandstone. (THRUSSINGTON MEMBER) ... losing rootlets from 0.50m bgl.	(0.85)		
	1.20-1.65	1	SPT	N=12		Firm to stiff light reddish grey brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to fine to coarse chert, sandstone, and siltstone. (THRUSSINGTON MEMBER) ... becoming stiff from 1.70m bgl.	1.25		
	1.40	2	D					(0.75)	
	2.00-2.45	2	SPT	N=51		Borehole terminated at 2.00m bgl due to SPT refusal.	2.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with ariisngs upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>me</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS19	
Contract Ref: 252332	Start: 18.09.20 End: 18.09.20	Ground Level: 128.35	National Grid Co-ordinate: E:430338.0 N:282336.7	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.10	1	ES			Firm brown slightly clayey SILT. (TOPSOIL)	(0.30)		
						Red brown slightly sandy slightly gravelly slightly clayey SILT. Sand is fine to coarse. Gravel is subangular fine to coarse chert, sandstone and quartzite. (THRUSSINGTON MEMBER)	0.30		
	0.80	2	D				(1.30)		
	1.20-1.65	1	SPT	N=11		... becoming clayey from 1.30m bgl.	1.60		
	1.70 1.80-2.05	3 2	D SPT	N:50 for 95mm		Red brown slightly gravelly slightly clayey SILT. Gravel is subangular fine to medium sandstone and mudstone. (ALLESLEY MEMBER)	(0.40)		
						Borehole terminated at 2.00m bgl due to refusal of sampling barrel and SPT.	2.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>ME</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS20	
Contract Ref: 252332	Start: 15.09.20	Ground Level: 129.99	National Grid Co-ordinate: E:430470.1 N:282336.9	Sheet: 1 of 1	
End: 15.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.10	1	ES			Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse slate and chert. (TOPSOIL)	0.30		
						Firm red brown and brown slightly sandy slightly gravelly to gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse slate, chert and sandstone. (THRUSSINGTON MEMBER)	(1.70)		
	1.20-1.65	1	SPT	N=20		... losing slate gravel from 1.30m bgl.			
	1.40	2	D			... band of red brown sand between 1.45m and 1.55m bgl.			
	1.80	3	D			... rare mudstone gravel from 1.70m bgl. ... becoming stiff from 1.80m bgl.			
2.00-2.45	2	SPT	N:50 for 295mm			Borehole terminated at 2.00m due to SPT refusal.	2.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>ML</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS21	
Contract Ref: 252332	Start: 16.09.20 End: 16.09.20	Ground Level: 128.56	National Grid Co-ordinate: E:430520.1 N:282336.8	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
	0.20	1	ES			Brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse quartzite, sandstone and chert. (TOPSOIL) ... becoming lighter brown from 0.30m bgl.	(0.40)	
						Loose light brown gravelly slightly clayey fine to coarse SAND. Gravel is subangular fine to coarse sandstone, weakly cemented sandstone, chert and quartzite. (THRUSSINGTON MEMBER)	0.40	
	1.20-1.65	1	SPT	N=31		Firm brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, chert and rare mudstone. (ALLESLEY MEMBER) ... becoming stiff from 1.70m bgl. ... frequent cemented sandstone gravel from 1.80m bgl.	(0.80)	
	1.30	2	D				1.20	
	1.80	3	D				(0.80)	
2.00-2.45	2	SPT	N:50 for 295mm		Borehole terminated at 2.00m bgl due to refusal of sampling barrel and SPT.	2.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 2.00m bgl upon completion.	
All dimensions in metres						Scale:	1:25
Method Used:	Tracked window sampling		Plant Used:	Premier Compact 110		Drilled By:	DSUK LTD
						Logged By:	EWild
						Checked By:	<i>ML</i>



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS22	
Contract Ref: 252332		Start: 14.09.20 End: 14.09.20	Ground Level: 119.94	National Grid Co-ordinate: E:430719.7 N:282337.1	Sheet: 1 of 1

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
						Turf over brown slightly gravelly to gravelly slightly clayey to clayey fine to coarse SAND with frequent rootlets. Gravel is subangular to subrounded fine to coarse quartzite and chert. (TOPSOIL)	(0.40)		
	0.50	1	ES			Loose light brown slightly gravelly to gravelly clayey fine to coarse SAND. Gravel is subangular to rounded fine to coarse chert, quartzite and siltstone. (THRUSSINGTON MEMBER)	(0.60)		
	1.20-1.65	1	SPT	N=16		Firm to stiff reddish brown slightly silty slightly gravelly CLAY. Gravel is subangular fine to coarse siltstone, chert and rare sandstone. (ALLESLEY MEMBER)	1.00		
	1.60	2	D			... becoming stiff from 1.70m bgl.	(1.00)		
	2.00-2.45	2	SPT	N=51		Borehole terminated at 2.00m due to SPT refusal.	2.00		

GINT LIBRARY_V10_01.GLB LibVersion: v8.07 | Log WINDOW SAMPLE LOG - A4P | 252332-BROWNS-LANE.GPJ - v10_01.
 RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 30/10/20 - 12:56 | EW2

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD						Logged By: EWild	
Checked By: <i>ML</i>							



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS23	
Contract Ref: 252332	Start: 17.09.20	Ground Level: 128.98	National Grid Co-ordinate: E:430320.1 N:282395.1	Sheet: 1 of 1	
End: 17.09.20					

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results					
	0.20	1	ES			Soft to firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert. (TOPSOIL)	(0.40)		
	1.20-1.65 1.30	1 2	SPT D	N=13		Soft to firm orange brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite and rare sandstone. (THRUSSINGTON MEMBER) ... becoming firm to stiff from 1.20m bgl. ... light grey mottled from 1.30m bgl.	0.40		
	2.00-2.45	2	SPT	N=26		... coal at 2.05m bgl.	(2.75)		
	2.90 3.00-3.45	3 3	D SPT	N=39		... no recovery from 3.00m to 3.15m bgl due to SPT.	3.15		
	3.50	4	D			Orange brown slightly sandy slightly gravelly slightly clayey SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium sandstone. mudstone and siltstone. (ALLESLEY MEMBER)	(0.85)		
	4.00-4.35	4	SPT	N:50 for 200mm		Borehole terminated at 4.00m bgl due to refusal of sampling barrel and SPT.	4.00		

GINT LIBRARY_V10_01.GLB LibVersion: v8.07 | Log WINDOW SAMPLE LOG - A4P | 252332-BROWNS-LANE.GPJ - v10_01.
 RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 30/10/20 - 12:56 | EW2 |

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS24	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 130.99	National Grid Co-ordinate: E:430470.0 N:282237.2	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
	0.20	1	ES			Turf over brown slightly silty slightly gravelly fine to coarse SAND with occasional rootlets. Gravel is subangular fine to medium siltstone, chert and rare quartzite. (TOPSOIL) ... rare pieces of ceramic and brick at 0.30m bgl.	(0.40)	
	0.80	2	ES			Firm orangish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, quartzite and sandstone. (THRUSSINGTON MEMBER)	0.40	
	1.20-1.65	1	SPT	N=8		... from 1.10m bgl sandstone gravel. ... reddish brown from 1.20m bgl.	(2.60)	
	1.40	3	D					
	2.00-2.45	2	SPT	N=30				
	2.80	4	D					
	3.00-3.45	3	SPT	N=51		Borehole terminated at 3.00m bgl due to SPT refusal.		

GINT_LIBRARY_V10_01.GLB LibVersion: v8.07 | Log WINDOW SAMPLE LOG - A4P | 252332-BROWNS-LANE.GPJ - v10_01.
RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 30/10/20 - 12:56 | EW2

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Borehole backfilled with arisings upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ML</i>	



WINDOW SAMPLE LOG

Contract: Brown's Lane, Coventry		Client: Coventry City Council		Window Sample: WS25	
Contract Ref: 252332	Start: 14.09.20 End: 14.09.20	Ground Level: 127.31	National Grid Co-ordinate: E:430620.1 N:282237.1	Sheet: 1 of 1	

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results				
	0.20	1	ES			Turf over light brown slightly gravelly slightly silty fine to coarse SAND with occasional rootlets. Gravel is subangular to rounded fine to coarse chert and quartzite. (TOPSOIL) ... losing rootlets from 0.30m bgl.	(0.40)	
	0.40					Firm reddish brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chert, siltstone and rare sandstone. (THRUSSINGTON MEMBER)		
	1.20-1.65	1	SPT	N=12		... occasionally light grey mottled from 1.20m bgl. ... pocket of clayey sand at 1.40m bgl. ... rare mudstone gravel from 1.50m bgl.	(1.60)	
1.20 - 2.00 (87mm dia) 100% rec	1.60	2	D			... sandstone gravel from 1.90m bgl.	2.00	
2.00-2.45	2.00	2	SPT	N=16		Stiff brown slightly gravelly slightly silty slightly sandy CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse siltstone, sandstone, chert and quartzite. (ALLESLEY MEMBER) ... becoming very sandy from 2.00m bgl. ... becoming stiff from 2.50m bgl.	(2.00)	
2.00 - 3.00 (77mm dia) 99% rec	2.60	3	ES			... becoming red from 3.95 bgl.		
3.00-3.45	3.00	3	SPT	N=33		Borehole terminated at 4.00m bgl due to refusal of sampling barrel and SPT.		
3.00 - 4.00 (67mm dia) 100% rec	3.50	4	D					
4.00-4.35	4.00	4	SPT	N:50 for 275mm				

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07 | Log WINDOW SAMPLE LOG - A4P | 252332-BROWNS-LANE.GPJ - V10_01.
RSK Environment Ltd, Abbey Park, Humber Road, Coventry, CV3 4AQ. Tel: 02476 505600, Fax: 02476 501417, Web: www.rsk.co.uk | 30/10/20 - 12:56 | EW2 |

Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Location scanned with GPR, and a CAT and Genny prior to breaking ground. No services encountered. 2. Groundwater not encountered. 3. Gas and groundwater monitoring well installed to 4.00m bgl upon completion.	
Method Used: Tracked window sampling						All dimensions in metres	
Plant Used: Premier Compact 110						Scale: 1:25	
Drilled By: DSUK LTD			Logged By: EWild			Checked By: <i>ME</i>	



APPENDIX G

GROUND GAS MONITORING DATA

IN-SITU GAS MONITORING RESULTS

	Start Date	End Date	Pressures		Start		End	Equipment Used & Remarks
			Previous	During				
Round 1	22/09/2020	22/09/2020	-	-	-	-	-	Weather: Sunny Ground: Dry Wind: Light Air Temp: 22°C
Round 2	07/10/2020	07/10/2020	-	-	-	-	-	Weather: Overcast Ground: Wet Wind: Light Air Temp: 16°C
Round 3	15/10/2020	15/10/2020	-	-	-	-	-	Weather: Sunny Ground: Damp Wind: Light Air Temp: 7°C
Round 4	22/10/2020	22/10/2020	-	-	-	-	-	Weather: Sunny Ground: Damp Wind: Light Air Temp: 10°C

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	
BH1	1	50	1	5.70	5.83	2.70 to 5.70	22/09/2020 14:49:00	992	992	0.2 _(I)	DRY	0.2	0.0	19.3	0.0	0	0	
BH1	1	50	1		---	2.70 to 5.70	15 secs	-	-	0.2 _(SS)	-	1.0	0.0	18.5	0.0	50	0	
BH1	1	50	1		---	2.70 to 5.70	30 secs	-	-	-	-	1.1	0.0	18.0	0.0	59	0	
BH1	1	50	1		---	2.70 to 5.70	60 secs	-	-	-	-	1.2	0.0	18.1	0.0	61	0	
BH1	1	50	1		---	2.70 to 5.70	90 secs	-	-	-	-	1.2	0.0	18.0	0.0	63	0	
BH1	1	50	1		---	2.70 to 5.70	120 secs	-	-	-	-	1.3	0.0	18.0	0.0	65	0	
BH1	1	50	2	5.70	5.88	2.70 to 5.70	07/10/2020 10:35:00	997	997	0.0 _(I)	DRY	0.3	0.0	20.6	0.0	0	0	
BH1	1	50	2		---	2.70 to 5.70	15 secs	-	-	0.0 _(SS)	-	2.4	0.0	19.5	0.0	0	0	
BH1	1	50	2		---	2.70 to 5.70	30 secs	-	-	-	-	2.4	0.0	18.9	0.0	0	0	
BH1	1	50	2		---	2.70 to 5.70	60 secs	-	-	-	-	2.4	0.0	18.9	0.0	0	0	
BH1	1	50	2		---	2.70 to 5.70	90 secs	-	-	-	-	2.4	0.0	18.9	0.0	1	0	
BH1	1	50	2		---	2.70 to 5.70	120 secs	-	-	-	-	2.5	0.0	18.9	0.0	0	0	
BH1	1	50	2		---	2.70 to 5.70	180 secs	-	-	-	-	2.5	0.0	18.8	0.0	0	0	
BH1	1	50	2		---	2.70 to 5.70	240 secs	-	-	-	-	2.5	0.0	18.7	0.0	0	0	
BH1	1	50	2		---	2.70 to 5.70	300 secs	-	-	-	-	2.6	0.0	18.6	0.0	0	0	
BH1	1	50	3	5.70	5.88	2.70 to 5.70	15/10/2020 13:07:00	1012	1012	0.0 _(I)	DRY	0.3	0.0	20.6	0.0	0	0	
BH1	1	50	3		---	2.70 to 5.70	15 secs	-	-	0.0 _(SS)	-	2.4	0.0	19.0	0.0	0	0	
BH1	1	50	3		---	2.70 to 5.70	30 secs	-	-	-	-	2.6	0.0	18.0	0.0	0	0	

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


<p>RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ</p>	Compiled By	Date	Checked By	Date	Contract Ref: 252332
		11/11/20			
Contract: Brown's Lane, Coventry					Page: 1 of 16



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	50	3		---	2.70 to 5.70	60 secs	-	-	-	-	2.7	0.0	17.8	0.0	0	0
BH1	1	50	3		---	2.70 to 5.70	90 secs	-	-	-	-	2.7	0.0	17.8	0.0	0	0
BH1	1	50	3		---	2.70 to 5.70	120 secs	-	-	-	-	2.7	0.0	17.8	0.0	0	0
BH1	1	50	3		---	2.70 to 5.70	180 secs	-	-	-	-	2.7	0.0	17.8	0.0	0	0
BH1	1	50	3		---	2.70 to 5.70	240 secs	-	-	-	-	2.7	0.0	17.8	0.0	0	0
BH1	1	50	3		---	2.70 to 5.70	300 secs	-	-	-	-	2.8	0.0	17.8	0.0	0	0
BH1	1	50	4	5.70	5.88	2.70 to 5.70	22/10/2020 14:08:00	1004	993	0.0 _(l)	5.86	0.1	0.0	20.8	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	15 secs	-	-	0.0 _(ss)	-	0.2	0.0	21.0	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	30 secs	-	-	-	-	0.2	0.0	21.0	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	60 secs	-	-	-	-	0.2	0.0	21.0	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	90 secs	-	-	-	-	0.2	0.0	20.9	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	120 secs	-	-	-	-	0.3	0.0	20.8	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	180 secs	-	-	-	-	0.5	0.0	20.6	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	240 secs	-	-	-	-	0.7	0.0	20.3	0.0	0	0
BH1	1	50	4		---	2.70 to 5.70	300 secs	-	-	-	-	0.9	0.0	20.0	0.0	0	0
BH2	1	50	1	6.60	6.60	3.00 to 6.60	22/09/2020 15:08:00	992	992	0.3 _(l)	4.96	0.3	0.0	19.2	0.0	0	0
BH2	1	50	1		---	3.00 to 6.60	15 secs	-	-	0.3 _(ss)	-	0.6	0.0	15.7	0.0	4	0
BH2	1	50	1		---	3.00 to 6.60	30 secs	-	-	-	-	0.6	0.0	13.7	0.0	4	0
BH2	1	50	1		---	3.00 to 6.60	60 secs	-	-	-	-	0.6	0.0	13.4	0.0	4	0
BH2	1	50	1		---	3.00 to 6.60	90 secs	-	-	-	-	0.6	0.0	13.2	0.0	4	0
BH2	1	50	2	6.60	6.61	3.00 to 6.60	07/10/2020 11:01:00	997	997	0.0 _(l)	4.74	0.1	0.0	20.6	0.0	0	0
BH2	1	50	2		---	3.00 to 6.60	15 secs	-	-	0.0 _(ss)	-	1.5	0.0	12.0	0.0	11	0
BH2	1	50	2		---	3.00 to 6.60	30 secs	-	-	-	-	1.5	0.0	8.2	0.0	12	0
BH2	1	50	2		---	3.00 to 6.60	60 secs	-	-	-	-	1.6	0.0	7.2	0.0	14	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	50	2		---	3.00 to 6.60	90 secs	-	-	-	-	1.7	0.0	6.7	0.0	14	0
BH2	1	50	2		---	3.00 to 6.60	120 secs	-	-	-	-	1.7	0.0	6.2	0.0	15	0
BH2	1	50	2		---	3.00 to 6.60	180 secs	-	-	-	-	1.8	0.0	5.7	0.0	15	0
BH2	1	50	2		---	3.00 to 6.60	240 secs	-	-	-	-	1.8	0.0	5.4	0.0	15	0
BH2	1	50	2		---	3.00 to 6.60	300 secs	-	-	-	-	1.8	0.0	5.3	0.0	15	0
BH2	1	50	3	6.60	6.61	3.00 to 6.60	15/10/2020 13:34:00	1011	1011	0.0 _(I)	4.72	0.1	0.0	20.7	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	15 secs	-	-	0.1 _(SS)	-	0.2	0.0	20.6	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	30 secs	-	-	-	-	0.2	0.0	20.5	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	60 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	90 secs	-	-	-	-	0.3	0.0	20.3	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	120 secs	-	-	-	-	0.5	0.0	19.9	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	180 secs	-	-	-	-	0.8	0.0	19.5	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	240 secs	-	-	-	-	0.9	0.0	19.3	0.0	0	0
BH2	1	50	3		---	3.00 to 6.60	300 secs	-	-	-	-	0.9	0.0	19.3	0.0	0	0
BH2	1	50	4	6.60	6.61	3.00 to 6.60	22/10/2020 14:32:00	993	993	0.0 _(I)	4.61	0.1	0.0	20.9	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	15 secs	-	-	0.1 _(SS)	-	0.5	0.0	19.1	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	30 secs	-	-	-	-	0.5	0.0	18.8	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	60 secs	-	-	-	-	0.6	0.0	18.6	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	90 secs	-	-	-	-	0.7	0.0	18.3	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	120 secs	-	-	-	-	0.8	0.0	18.1	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	180 secs	-	-	-	-	0.9	0.0	17.8	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	240 secs	-	-	-	-	0.8	0.0	18.1	0.0	0	0
BH2	1	50	4		---	3.00 to 6.60	300 secs	-	-	-	-	0.6	0.0	18.7	0.0	0	0
BH3	1	50	1	8.00	7.75	5.00 to 8.00	22/09/2020 15:24:00	992	992	0.3 _(I)	DRY	0.1	0.0	18.1	0.0	1	0


Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract: Brown's Lane, Coventry		Page: 3 of 16		

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH3	1	50	1		---	5.00 to 8.00	15 secs	-	-	0.3 _(SS)	-	0.7	0.0	17.1	0.0	5	0
BH3	1	50	1		---	5.00 to 8.00	30 secs	-	-	-	-	0.6	0.0	16.7	0.0	2	0
BH3	1	50	1		---	5.00 to 8.00	60 secs	-	-	-	-	0.6	0.0	16.6	0.0	1	0
BH3	1	50	1		---	5.00 to 8.00	90 secs	-	-	-	-	0.6	0.0	16.6	0.0	1	0
BH3	1	50	2	8.00	7.85	5.00 to 8.00	07/10/2020 11:29:00	998	997	0.0 _(I)	0.28	0.2	0.0	20.9	0.0	0	0
BH3	1	50	2		---	5.00 to 8.00	15 secs	-	-	0.1 _(SS)	-	0.1	0.0	20.9	0.0	1	0
BH3	1	50	2		---	5.00 to 8.00	30 secs	-	-	-	-	0.1	0.0	20.8	0.0	1	0
BH3	1	50	2		---	5.00 to 8.00	60 secs	-	-	-	-	0.1	0.0	20.8	0.0	1	0
BH3	1	50	2		---	5.00 to 8.00	90 secs	-	-	-	-	0.1	0.0	20.6	0.0	1	0
BH3	1	50	2		---	5.00 to 8.00	120 secs	-	-	-	-	0.1	0.0	20.5	0.0	1	0
BH3	1	50	2		---	5.00 to 8.00	180 secs	-	-	-	-	0.1	0.0	20.4	0.0	1	0
BH3	1	50	2		---	5.00 to 8.00	240 secs	-	-	-	-	0.1	0.0	20.4	0.0	0	0
BH3	1	50	2		---	5.00 to 8.00	300 secs	-	-	-	-	0.1	0.0	20.3	0.0	0	0
BH3	1	50	3	8.00	7.85	5.00 to 8.00	15/10/2020 13:59:00	1010	1010	0.0 _(I)	3.51	0.3	0.0	20.9	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	15 secs	-	-	0.1 _(SS)	-	0.4	0.0	20.7	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	30 secs	-	-	-	-	0.5	0.0	20.5	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	60 secs	-	-	-	-	0.6	0.0	20.4	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	90 secs	-	-	-	-	0.6	0.0	20.4	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	120 secs	-	-	-	-	0.6	0.0	20.3	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	180 secs	-	-	-	-	0.7	0.0	19.9	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	240 secs	-	-	-	-	0.9	0.0	18.6	0.0	0	0
BH3	1	50	3		---	5.00 to 8.00	300 secs	-	-	-	-	1.1	0.0	16.7	0.0	0	0
BH3	1	50	4	8.00	7.85	5.00 to 8.00	22/10/2020 14:53:00	992	992	0.0 _(I)	4.10	1.0	0.0	21.0	0.0	0	0
BH3	1	50	4		---	5.00 to 8.00	15 secs	-	-	0.1 _(SS)	-	1.1	0.0	19.9	0.0	0	0
BH3	1	50	4		---	5.00 to 8.00	30 secs	-	-	-	-	1.2	0.0	19.5	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH3	1	50	4		---	5.00 to 8.00	60 secs	-	-	-	-	1.2	0.0	19.5	0.0	0	0
BH3	1	50	4		---	5.00 to 8.00	90 secs	-	-	-	-	1.2	0.0	19.5	0.0	0	0
BH3	1	50	4		---	5.00 to 8.00	120 secs	-	-	-	-	1.2	0.0	19.4	0.0	0	0
BH3	1	50	4		---	5.00 to 8.00	180 secs	-	-	-	-	1.4	0.0	19.1	0.0	0	0
BH3	1	50	4		---	5.00 to 8.00	240 secs	-	-	-	-	1.7	0.0	16.7	0.0	0	0
BH3	1	50	4		---	5.00 to 8.00	300 secs	-	-	-	-	2.0	0.0	14.9	0.0	0	0
WS11	1	50	1	3.00	3.00	1.00 to 3.00	22/09/2020 14:58:00	992	992	0.3 _(I)	2.52	0.1	0.0	19.3	0.0	5	0
WS11	1	50	1		---	1.00 to 3.00	15 secs	-	-	0.2 _(SS)	-	4.3	0.0	17.6	0.0	7	0
WS11	1	50	1		---	1.00 to 3.00	30 secs	-	-	-	-	4.4	0.0	16.7	0.0	0	0
WS11	1	50	1		---	1.00 to 3.00	60 secs	-	-	-	-	4.4	0.0	16.6	0.0	0	0
WS11	1	50	1		---	1.00 to 3.00	90 secs	-	-	-	-	4.5	0.0	16.6	0.0	0	0
WS11	1	50	3	3.00	3.03	1.00 to 3.00	15/10/2020 13:18:00	1012	1012	0.0 _(I)	2.06	0.3	0.0	20.6	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	15 secs	-	-	0.1 _(SS)	-	2.9	0.0	18.6	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	30 secs	-	-	-	-	3.0	0.0	17.4	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	3.0	0.0	17.3	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	3.0	0.0	17.2	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	3.0	0.0	17.2	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	3.1	0.0	17.1	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	3.2	0.0	17.0	0.0	0	0
WS11	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	3.3	0.0	17.0	0.0	0	0
WS11	1	50	4	3.00	3.03	1.00 to 3.00	22/10/2020 14:19:00	994	994	0.0 _(I)	-	0.1	0.0	20.9	0.0	0	0
WS11	1	50	4		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.1	0.0	20.5	0.0	0	0
WS11	1	50	4		---	1.00 to 3.00	30 secs	-	-	-	-	0.1	0.0	20.5	0.0	0	0
WS11	1	50	4		---	1.00 to 3.00	60 secs	-	-	-	-	0.2	0.0	20.4	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS11	1	50	4		---	1.00 to 3.00	90 secs	-	-	-	-	0.2	0.0	20.3	0.0	0	0
WS11	1	50	4		---	1.00 to 3.00	120 secs	-	-	-	-	0.3	0.0	20.2	0.0	0	0
WS11	1	50	4		---	1.00 to 3.00	180 secs	-	-	-	-	0.7	0.0	19.8	0.0	0	0
WS11	1	50	4		---	1.00 to 3.00	240 secs	-	-	-	-	1.5	0.0	19.1	0.0	0	0
WS11	1	50	4		---	1.00 to 3.00	300 secs	-	-	-	-	2.2	0.0	18.6	0.0	0	0
WS12	1	50	1	3.00	2.72	1.00 to 3.00	22/09/2020 14:15:00	992	992	0.2 _(l)	DRY	0.1	0.0	18.3	0.0	0	0
WS12	1	50	1		---	1.00 to 3.00	15 secs	-	-	0.1 _(SS)	-	1.0	0.0	17.8	0.0	0	0
WS12	1	50	1		---	1.00 to 3.00	30 secs	-	-	-	-	1.0	0.0	17.7	0.0	0	0
WS12	1	50	1		---	1.00 to 3.00	60 secs	-	-	-	-	1.1	0.0	17.7	0.0	0	0
WS12	1	50	1		---	1.00 to 3.00	90 secs	-	-	-	-	1.1	0.0	17.7	0.0	0	0
WS12	1	50	2	3.00	2.77	1.00 to 3.00	07/10/2020 11:57:00	998	998	0.0 _(l)	2.21	0.2	0.0	21.0	0.0	0	0
WS12	1	50	2		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.9	0.0	20.3	0.0	1	0
WS12	1	50	2		---	1.00 to 3.00	30 secs	-	-	-	-	1.3	0.0	19.3	0.0	0	0
WS12	1	50	2		---	1.00 to 3.00	60 secs	-	-	-	-	1.8	0.0	18.6	0.0	0	0
WS12	1	50	2		---	1.00 to 3.00	90 secs	-	-	-	-	1.9	0.0	18.5	0.0	0	0
WS12	1	50	2		---	1.00 to 3.00	120 secs	-	-	-	-	1.9	0.0	18.5	0.0	0	0
WS12	1	50	2		---	1.00 to 3.00	180 secs	-	-	-	-	1.9	0.0	18.5	0.0	0	0
WS12	1	50	2		---	1.00 to 3.00	240 secs	-	-	-	-	1.9	0.0	18.5	0.0	0	0
WS12	1	50	2		---	1.00 to 3.00	300 secs	-	-	-	-	1.9	0.0	18.5	0.0	0	0
WS12	1	50	3	3.00	2.77	1.00 to 3.00	15/10/2020 14:23:00	1011	1011	0.0 _(l)	2.29	0.3	0.0	20.6	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	1.6	0.0	19.6	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	30 secs	-	-	-	-	1.6	0.0	19.3	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	1.6	0.0	19.2	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	1.6	0.0	19.2	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS12	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	1.6	0.0	19.2	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	1.6	0.0	19.3	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	1.5	0.0	19.4	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	1.5	0.0	19.4	0.0	0	0
WS12	1	50	4	3.00	2.77	1.00 to 3.00	22/10/2020 15:21:00	990	992	0.0 _(I)	2.77	0.1	0.0	20.8	0.0	0	0
WS12	1	50	3	3.00	---	1.00 to 3.00	22/10/2020 15:21:15	-	-	0.0 _(SS)	-	2.7	0.0	16.9	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	30 secs	-	-	-	-	2.6	0.0	16.9	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	2.6	0.0	16.9	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	2.6	0.0	16.9	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	2.6	0.0	16.9	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	2.6	0.0	17.0	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	2.6	0.0	17.0	0.0	0	0
WS12	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	2.6	0.0	17.0	0.0	0	0
WS14	1	50	1	3.00	2.95	1.00 to 3.00	22/09/2020 14:29:00	992	992	0.2 _(I)	DRY	0.1	0.0	18.7	0.0	0	0
WS14	1	50	1		---	1.00 to 3.00	15 secs	-	-	0.2 _(SS)	-	1.1	0.0	18.1	0.0	0	0
WS14	1	50	1		---	1.00 to 3.00	30 secs	-	-	-	-	1.1	0.0	18.1	0.0	0	0
WS14	1	50	1		---	1.00 to 3.00	60 secs	-	-	-	-	1.1	0.0	18.1	0.0	0	0
WS14	1	50	1		---	1.00 to 3.00	90 secs	-	-	-	-	1.1	0.0	18.1	0.0	0	0
WS14	1	50	2	3.00	3.01	1.00 to 3.00	07/10/2020 10:04:00	997	997	1.0 _(I)	DRY	0.1	0.0	21.0	0.0	0	0
WS14	1	50	2		---	1.00 to 3.00	15 secs	-	-	4.8 _(SS)	-	0.9	0.0	20.0	0.0	1	0
WS14	1	50	2		---	1.00 to 3.00	30 secs	-	-	-	-	0.7	0.0	20.0	0.0	0	0
WS14	1	50	2		---	1.00 to 3.00	60 secs	-	-	-	-	0.6	0.0	20.2	0.0	0	0
WS14	1	50	2		---	1.00 to 3.00	90 secs	-	-	-	-	0.5	0.0	20.4	0.0	0	0
WS14	1	50	2		---	1.00 to 3.00	120 secs	-	-	-	-	0.4	0.0	20.5	0.0	0	0

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 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS14	1	50	2		---	1.00 to 3.00	180 secs	-	-	-	-	0.3	0.0	20.7	0.0	0	0
WS14	1	50	2		---	1.00 to 3.00	240 secs	-	-	-	-	0.2	0.0	20.8	0.0	0	0
WS14	1	50	2		---	1.00 to 3.00	300 secs	-	-	-	-	0.6	0.0	20.2	0.0	0	0
WS14	1	50	3	3.00	3.01	1.00 to 3.00	15/10/2020 12:44:00	1015	1011	0.0 _(I)	1.30	0.1	0.0	20.6	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.5	0.0	18.8	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	30 secs	-	-	-	-	0.5	0.0	17.4	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	0.6	0.0	17.2	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	0.6	0.0	17.1	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	0.6	0.0	17.1	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	0.6	0.0	17.1	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	0.6	0.0	17.0	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	0.5	0.0	17.0	0.0	0	0
WS14	1	50	4	3.00	3.01	1.00 to 3.00	22/10/2020 13:46:00	996	993	0.0 _(I)	1.16	0.1	0.0	20.8	0.0	0	0
WS14	1	50	4		---	1.00 to 3.00	15 secs	-	-	3.3 _(SS)	-	0.5	0.0	17.7	0.0	0	0
WS14	1	50	3	3.00	---	1.00 to 3.00	22/10/2020 13:46:30	-	-	-	-	0.5	0.0	16.6	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	0.5	0.0	16.5	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	0.5	0.0	16.5	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	0.5	0.0	16.5	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	0.5	0.0	16.4	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	0.5	0.0	16.3	0.0	0	0
WS14	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	0.5	0.0	16.1	0.0	0	0
WS16	1	50	1	3.00	---	1.00 to 3.00	22/09/2020 14:21:00	992	992	0.2 _(I)	-	0.1	0.0	19.2	0.0	0	0
WS16	1	50	1		---	1.00 to 3.00	15 secs	-	-	0.2 _(SS)	-	1.0	0.0	17.5	0.0	0	0
WS16	1	50	1		---	1.00 to 3.00	30 secs	-	-	-	-	1.0	0.0	16.5	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


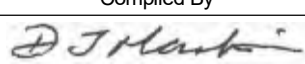

 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS16	1	50	1		---	1.00 to 3.00	60 secs	-	-	-	-	1.0	0.0	16.4	0.0	0	0
WS16	1	50	1		---	1.00 to 3.00	90 secs	-	-	-	-	1.1	0.0	16.4	0.0	0	0
WS16	1	50	2	3.00	2.86	1.00 to 3.00	07/10/2020 09:46:00	997	996	1.0 _(I)	0.76	0.2	0.0	21.0	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	1.3	0.0	18.3	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	30 secs	-	-	-	-	1.3	0.0	16.6	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	60 secs	-	-	-	-	1.3	0.0	16.4	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	90 secs	-	-	-	-	1.3	0.0	16.4	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	120 secs	-	-	-	-	1.3	0.0	16.4	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	180 secs	-	-	-	-	1.2	0.0	16.4	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	240 secs	-	-	-	-	1.2	0.0	16.4	0.0	0	0
WS16	1	50	2		---	1.00 to 3.00	300 secs	-	-	-	-	1.2	0.0	16.3	0.0	0	0
WS16	1	50	3	3.00	2.86	1.00 to 3.00	15/10/2020 10:00:00	1015	1011	0.0 _(I)	2.86	0.2	0.0	20.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.1	0.0	20.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	30 secs	-	-	-	-	0.1	0.0	20.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	0.1	0.0	20.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	0.1	0.0	20.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	0.1	0.0	20.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	0.1	0.0	20.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	0.1	0.0	20.7	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	0.2	0.0	20.7	0.0	0	0
WS16	1	50	4	3.00	2.86	1.00 to 3.00	22/10/2020 13:35:00	992	992	0.0 _(I)	1.96	0.1	0.0	20.6	0.0	0	0
WS16	1	50	4		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.9	0.0	18.3	0.0	0	0
WS16	1	50	3	3.00	---	1.00 to 3.00	22/10/2020 13:35:30	-	-	-	-	0.8	0.0	17.7	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	0.6	0.0	18.5	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	0.4	0.0	19.2	0.0	0	0


Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	 Contract:	11/11/20			
Brown's Lane, Coventry					

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS16	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	0.3	0.0	19.6	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	0.2	0.0	20.1	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	0.1	0.0	20.3	0.0	0	0
WS16	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	0.1	0.0	20.4	0.0	0	0
WS2	1	50	1	3.00	2.93	1.00 to 3.00	22/09/2020 14:06:00	992	992	0.2 _(I)	DRY	0.1	0.0	19.4	0.0	0	0
WS2	1	50	1		---	1.00 to 3.00	15 secs	-	-	0.1 _(SS)	-	0.9	0.0	18.5	0.0	0	0
WS2	1	50	1		---	1.00 to 3.00	30 secs	-	-	-	-	0.9	0.0	18.4	0.0	0	0
WS2	1	50	1		---	1.00 to 3.00	60 secs	-	-	-	-	0.9	0.0	18.4	0.0	0	0
WS2	1	50	1		---	1.00 to 3.00	90 secs	-	-	-	-	0.9	0.0	18.4	0.0	0	0
WS2	1	50	2	3.00	2.98	1.00 to 3.00	07/10/2020 09:34:00	996	996	0.0 _(I)	DRY	0.2	0.0	21.0	0.0	0	0
WS2	1	50	2		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.9	0.0	20.1	0.0	1	0
WS2	1	50	2		---	1.00 to 3.00	30 secs	-	-	-	-	0.9	0.0	19.6	0.0	0	0
WS2	1	50	2		---	1.00 to 3.00	60 secs	-	-	-	-	0.9	0.0	19.6	0.0	0	0
WS2	1	50	2		---	1.00 to 3.00	90 secs	-	-	-	-	0.9	0.0	19.6	0.0	0	0
WS2	1	50	2		---	1.00 to 3.00	120 secs	-	-	-	-	0.9	0.0	19.6	0.0	0	0
WS2	1	50	2		---	1.00 to 3.00	180 secs	-	-	-	-	0.9	0.0	19.6	0.0	0	0
WS2	1	50	2		---	1.00 to 3.00	240 secs	-	-	-	-	0.9	0.0	19.5	0.0	0	0
WS2	1	50	2		---	1.00 to 3.00	300 secs	-	-	-	-	0.8	0.0	19.5	0.0	0	0
WS2	1	50	3	3.00	2.99	1.00 to 3.00	15/10/2020 09:41:00	1011	1011	0.0 _(I)	2.99	0.3	0.0	20.9	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.5	0.0	19.4	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	30 secs	-	-	-	-	0.5	0.0	18.4	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	0.5	0.0	19.0	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	0.4	0.0	19.4	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	0.3	0.0	19.7	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS2	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	0.3	0.0	20.1	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	0.2	0.0	20.3	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	0.2	0.0	20.5	0.0	0	0
WS2	1	50	4	3.00	2.99	1.00 to 3.00	22/10/2020 13:23:00	995	991	0.0 _(l)	1.43	0.3	0.0	20.7	0.0	0	0
WS2	1	50	4		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	0.4	0.0	18.7	0.0	0	0
WS2	1	50	3	3.00	---	1.00 to 3.00	22/10/2020 13:23:30	-	-	-	-	0.4	0.0	17.9	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	0.4	0.0	18.1	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	0.3	0.0	18.4	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	0.3	0.0	18.3	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	0.3	0.0	18.6	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	0.3	0.0	18.6	0.0	0	0
WS2	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	0.3	0.0	18.9	0.0	0	0
WS21	1	50	1	2.00	1.91	1.00 to 2.00	22/09/2020 15:38:00	992	992	0.3 _(l)	DRY	0.1	0.0	19.1	0.0	0	0
WS21	1	50	1		---	1.00 to 2.00	15 secs	-	-	0.3 _(SS)	-	2.3	0.0	17.8	0.0	0	0
WS21	1	50	1		---	1.00 to 2.00	30 secs	-	-	-	-	2.4	0.0	17.6	0.0	0	0
WS21	1	50	1		---	1.00 to 2.00	60 secs	-	-	-	-	2.5	0.0	17.5	0.0	0	0
WS21	1	50	1		---	1.00 to 2.00	90 secs	-	-	-	-	2.7	0.0	17.4	0.0	0	0
WS21	1	50	1		---	1.00 to 2.00	120 secs	-	-	-	-	3.0	0.0	17.3	0.0	0	0
WS21	1	50	1		---	1.00 to 2.00	180 secs	-	-	-	-	3.3	0.0	17.1	0.0	0	0
WS21	1	50	1		---	1.00 to 2.00	240 secs	-	-	-	-	3.4	0.0	17.0	0.0	0	0
WS21	1	50	2	2.00	1.97	1.00 to 2.00	07/10/2020 10:20:00	997	997	0.0 _(l)	DRY	0.2	0.0	21.0	0.0	0	0
WS21	1	50	2		---	1.00 to 2.00	15 secs	-	-	0.0 _(SS)	-	2.1	0.0	19.2	0.0	0	0
WS21	1	50	2		---	1.00 to 2.00	30 secs	-	-	-	-	2.1	0.0	18.3	0.0	0	0
WS21	1	50	2		---	1.00 to 2.00	60 secs	-	-	-	-	2.1	0.0	18.2	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS21	1	50	2		---	1.00 to 2.00	90 secs	-	-	-	-	2.1	0.0	18.2	0.0	0	0
WS21	1	50	2		---	1.00 to 2.00	120 secs	-	-	-	-	2.1	0.0	18.2	0.0	0	0
WS21	1	50	2		---	1.00 to 2.00	180 secs	-	-	-	-	2.1	0.0	18.1	0.0	0	0
WS21	1	50	2		---	1.00 to 2.00	240 secs	-	-	-	-	2.1	0.0	18.0	0.0	0	0
WS21	1	50	2		---	1.00 to 2.00	300 secs	-	-	-	-	2.0	0.0	18.0	0.0	0	0
WS21	1	50	3	2.00	1.97	1.00 to 2.00	15/10/2020 12:54:00	1011	1011	0.0 _(I)	DRY	0.1	0.0	20.6	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	15 secs	-	-	0.0 _(SS)	-	2.6	0.0	17.9	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	30 secs	-	-	-	-	2.6	0.0	16.5	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	60 secs	-	-	-	-	2.6	0.0	16.4	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	90 secs	-	-	-	-	2.6	0.0	16.4	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	120 secs	-	-	-	-	2.6	0.0	16.4	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	180 secs	-	-	-	-	2.7	0.0	16.4	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	240 secs	-	-	-	-	2.6	0.0	16.4	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	300 secs	-	-	-	-	2.6	0.0	16.5	0.0	0	0
WS21	1	50	4	2.00	1.97	1.00 to 2.00	22/10/2020 13:56:00	993	993	0.0 _(I)	DRY	0.1	0.0	20.5	0.0	0	0
WS21	1	50	4		---	1.00 to 2.00	15 secs	-	-	0.0 _(SS)	-	3.2	0.0	16.3	0.0	0	0
WS21	1	50	3	2.00	---	1.00 to 2.00	22/10/2020 13:56:30	-	-	-	-	3.2	0.0	15.0	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	60 secs	-	-	-	-	3.3	0.0	14.9	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	90 secs	-	-	-	-	3.3	0.0	14.9	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	120 secs	-	-	-	-	3.3	0.0	14.9	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	180 secs	-	-	-	-	3.3	0.0	15.0	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	240 secs	-	-	-	-	3.3	0.0	15.0	0.0	0	0
WS21	1	50	3		---	1.00 to 2.00	300 secs	-	-	-	-	3.3	0.0	15.1	0.0	0	0
WS24	1	50	1	3.00	2.82	#REF! to #REF!	22/09/2020 15:31:00	992	992	0.3 _(I)	1.50	0.1	0.0	19.1	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS24	1	50	1		---	#REF! to #REF!	15 secs	-	-	0.3 _(SS)	-	1.2	0.0	18.3	0.0	4	0
WS24	1	50	1		---	#REF! to #REF!	30 secs	-	-	-	-	1.2	0.0	18.4	0.0	0	0
WS24	1	50	1		---	#REF! to #REF!	60 secs	-	-	-	-	1.2	0.0	18.4	0.0	0	0
WS24	1	50	2	3.00	2.87	#REF! to #REF!	07/10/2020 11:44:00	998	998	0.0 _(I)	0.92	0.1	0.0	21.0	0.0	0	0
WS24	1	50	2		---	#REF! to #REF!	15 secs	-	-	0.1 _(SS)	-	0.5	0.0	20.3	0.0	1	0
WS24	1	50	2		---	#REF! to #REF!	30 secs	-	-	-	-	0.5	0.0	20.0	0.0	1	0
WS24	1	50	2		---	#REF! to #REF!	60 secs	-	-	-	-	0.5	0.0	20.1	0.0	1	0
WS24	1	50	2		---	#REF! to #REF!	90 secs	-	-	-	-	0.5	0.0	20.2	0.0	1	0
WS24	1	50	2		---	#REF! to #REF!	120 secs	-	-	-	-	0.5	0.0	20.1	0.0	1	0
WS24	1	50	2		---	#REF! to #REF!	180 secs	-	-	-	-	0.5	0.0	20.1	0.0	1	0
WS24	1	50	2		---	#REF! to #REF!	240 secs	-	-	-	-	0.6	0.0	19.5	0.0	0	0
WS24	1	50	2		---	#REF! to #REF!	300 secs	-	-	-	-	1.0	0.0	18.2	0.0	0	0
WS24	1	50	3	3.00	2.85	#REF! to #REF!	15/10/2020 14:10:00	1010	1010	0.0 _(I)	1.26	0.2	0.0	20.6	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	15 secs	-	-	0.0 _(SS)	-	2.0	0.0	17.9	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	30 secs	-	-	-	-	2.2	0.0	16.4	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	60 secs	-	-	-	-	2.4	0.0	16.0	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	90 secs	-	-	-	-	2.4	0.0	15.9	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	120 secs	-	-	-	-	2.4	0.0	15.9	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	180 secs	-	-	-	-	2.4	0.0	15.8	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	240 secs	-	-	-	-	2.5	0.0	15.7	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	300 secs	-	-	-	-	2.5	0.0	15.7	0.0	0	0
WS24	1	50	4	3.00	2.90	#REF! to #REF!	22/10/2020 15:03:00	992	992	0.0 _(I)	1.18	0.1	0.0	20.8	0.0	0	0
WS24	1	50	4		---	#REF! to #REF!	15 secs	-	-	0.0 _(SS)	-	2.6	0.0	18.3	0.0	0	0
WS24	1	50	3	3.00	---	#REF! to #REF!	22/10/2020 15:03:30	-	-	-	-	2.6	0.0	17.4	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	60 secs	-	-	-	-	2.8	0.0	17.2	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


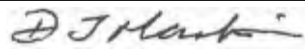
 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS24	1	50	3		---	#REF! to #REF!	90 secs	-	-	-	-	2.8	0.0	17.1	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	120 secs	-	-	-	-	2.9	0.0	17.0	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	180 secs	-	-	-	-	3.0	0.0	16.8	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	240 secs	-	-	-	-	3.0	0.0	16.7	0.0	0	0
WS24	1	50	3		---	#REF! to #REF!	300 secs	-	-	-	-	3.1	0.0	16.6	0.0	0	0
WS25	1	50	1	4.00	---	2.00 to 4.00	22/09/2020 15:14:00	992	992	0.3 _(l)	-	0.1	0.0	19.4	0.0	0	0
WS25	1	50	1		---	2.00 to 4.00	15 secs	-	-	0.2 _(SS)	-	1.4	0.0	17.9	0.0	1	0
WS25	1	50	1		---	2.00 to 4.00	30 secs	-	-	-	-	1.5	0.0	18.3	0.0	0	0
WS25	1	50	1		---	2.00 to 4.00	60 secs	-	-	-	-	1.5	0.0	18.3	0.0	0	0
WS25	1	50	1		---	2.00 to 4.00	90 secs	-	-	-	-	1.5	0.0	18.3	0.0	0	0
WS25	1	50	2	4.00	3.95	2.00 to 4.00	07/10/2020 11:12:00	997	997	0.0 _(l)	DRY	0.1	0.0	20.6	0.0	0	0
WS25	1	50	2		---	2.00 to 4.00	15 secs	-	-	0.0 _(SS)	-	1.8	0.0	19.5	0.0	1	0
WS25	1	50	2		---	2.00 to 4.00	30 secs	-	-	-	-	1.8	0.0	19.2	0.0	0	0
WS25	1	50	2		---	2.00 to 4.00	60 secs	-	-	-	-	1.8	0.0	19.2	0.0	0	0
WS25	1	50	2		---	2.00 to 4.00	90 secs	-	-	-	-	1.8	0.0	19.2	0.0	0	0
WS25	1	50	2		---	2.00 to 4.00	120 secs	-	-	-	-	1.8	0.0	19.2	0.0	0	0
WS25	1	50	2		---	2.00 to 4.00	180 secs	-	-	-	-	1.8	0.0	19.2	0.0	0	0
WS25	1	50	2		---	2.00 to 4.00	240 secs	-	-	-	-	1.8	0.0	19.2	0.0	0	0
WS25	1	50	2		---	2.00 to 4.00	300 secs	-	-	-	-	1.8	0.0	19.2	0.0	0	0
WS25	1	50	3	4.00	3.93	2.00 to 4.00	15/10/2020 13:46:00	1011	1011	0.0 _(l)	3.91	0.2	0.0	20.9	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	15 secs	-	-	0.1 _(SS)	-	1.7	0.0	19.5	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	30 secs	-	-	-	-	1.8	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	60 secs	-	-	-	-	1.8	0.0	18.5	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	90 secs	-	-	-	-	1.8	0.0	18.5	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	 Contract:		11/11/20 Brown's Lane, Coventry		



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS25	1	50	3		---	2.00 to 4.00	120 secs	-	-	-	-	1.8	0.0	18.5	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	180 secs	-	-	-	-	1.8	0.0	18.5	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	240 secs	-	-	-	-	1.8	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	300 secs	-	-	-	-	1.8	0.0	18.6	0.0	0	0
WS25	1	50	4	4.00	3.93	2.00 to 4.00	22/10/2020 14:42:00	993	993	0.0 _(I)	3.64	0.1	0.0	21.0	0.0	0	0
WS25	1	50	4		---	2.00 to 4.00	15 secs	-	-	0.1 _(SS)	-	1.7	0.0	19.5	0.0	0	0
WS25	1	50	3	4.00	---	2.00 to 4.00	22/10/2020 14:42:30	-	-	-	-	1.7	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	60 secs	-	-	-	-	1.7	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	90 secs	-	-	-	-	1.7	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	120 secs	-	-	-	-	1.7	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	180 secs	-	-	-	-	1.7	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	240 secs	-	-	-	-	1.7	0.0	18.6	0.0	0	0
WS25	1	50	3		---	2.00 to 4.00	300 secs	-	-	-	-	1.7	0.0	18.6	0.0	0	0
WS4	1	50	1	3.00	2.94	1.00 to 3.00	22/09/2020 13:52:00	993	993	0.1 _(I)	DRY	0.1	0.0	19.7	0.0	0	0
WS4	1	50	1		---	1.00 to 3.00	15 secs	-	-	0.1 _(SS)	-	2.9	0.0	18.2	0.0	0	0
WS4	1	50	1		---	1.00 to 3.00	30 secs	-	-	-	-	2.9	0.0	17.5	0.0	0	0
WS4	1	50	1		---	1.00 to 3.00	60 secs	-	-	-	-	2.9	0.0	17.5	0.0	0	0
WS4	1	50	1		---	1.00 to 3.00	90 secs	-	-	-	-	2.9	0.0	17.4	0.0	0	0
WS4	1	50	2	3.00	2.97	1.00 to 3.00	07/10/2020 12:22:00	999	999	0.0 _(I)	DRY	0.1	0.0	21.0	0.0	0	0
WS4	1	50	2		---	1.00 to 3.00	15 secs	-	-	0.1 _(SS)	-	1.4	0.0	20.3	0.0	1	0
WS4	1	50	2		---	1.00 to 3.00	30 secs	-	-	-	-	1.4	0.0	20.0	0.0	0	0
WS4	1	50	2		---	1.00 to 3.00	60 secs	-	-	-	-	1.8	0.0	19.4	0.0	1	0
WS4	1	50	2		---	1.00 to 3.00	90 secs	-	-	-	-	1.8	0.0	19.4	0.0	1	0
WS4	1	50	2		---	1.00 to 3.00	120 secs	-	-	-	-	1.8	0.0	19.4	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.


 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			



IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS4	1	50	2		---	1.00 to 3.00	180 secs	-	-	-	-	1.7	0.0	19.4	0.0	0	0
WS4	1	50	2		---	1.00 to 3.00	240 secs	-	-	-	-	1.7	0.0	19.4	0.0	0	0
WS4	1	50	2		---	1.00 to 3.00	300 secs	-	-	-	-	1.7	0.0	19.4	0.0	0	0
WS4	1	50	3	3.00	2.99	1.00 to 3.00	15/10/2020 14:38:00	1017	1011	0.0 _(I)	2.97	0.3	0.0	20.6	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	2.1	0.0	19.2	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	30 secs	-	-	-	-	2.1	0.0	18.3	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	60 secs	-	-	-	-	2.1	0.0	18.2	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	90 secs	-	-	-	-	2.1	0.0	18.2	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	120 secs	-	-	-	-	2.1	0.0	18.2	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	180 secs	-	-	-	-	2.2	0.0	18.2	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	240 secs	-	-	-	-	2.2	0.0	18.2	0.0	0	0
WS4	1	50	3		---	1.00 to 3.00	300 secs	-	-	-	-	2.2	0.0	18.2	0.0	0	0
WS4	1	50	4	3.00	2.99	1.00 to 3.00	22/10/2020 15:41:00	1017	1011	0.0 _(I)	2.92	0.1	0.0	20.9	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	15 secs	-	-	0.0 _(SS)	-	2.1	0.0	19.1	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	30 secs	-	-	-	-	2.1	0.0	18.3	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	60 secs	-	-	-	-	2.1	0.0	18.3	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	90 secs	-	-	-	-	2.1	0.0	18.3	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	120 secs	-	-	-	-	2.1	0.0	18.2	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	180 secs	-	-	-	-	2.2	0.0	18.2	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	240 secs	-	-	-	-	2.2	0.0	18.2	0.0	0	0
WS4	1	50	4		---	1.00 to 3.00	300 secs	-	-	-	-	2.2	0.0	18.2	0.0	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 RSK Environment Ltd Abbey Park Humber Road Coventry CV3 4AQ	Compiled By	Date	Checked By	Date	Contract Ref: 252332
	Contract:	Brown's Lane, Coventry			





APPENDIX H

SOAKAWAY TEST RESULTS



STRUCTURAL SOILS LTD
INSITU TESTING REPORT



1774

Report No. 749649R.01(00)

Date 17-September-2020 Contract Browns Lane, Coventry

Client RSK Environment Ltd
Address Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR

For the Attention of Ben Sowden

Order received	26-August-2020	Client Reference	None
Testing Started	16-September-2020	Client Order No.	P02106802
Testing Completed	16-September-2020	Instruction Type	Written

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

UKAS Accredited Tests

Not UKAS Accredited Tests

5no. Soakaway tests carried out at locations specified by client.

The results represent the ground conditions at the specified locations and depths at the time of testing.

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of.
Test were undertaken on samples 'as received' unless otherwise stated.
Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.

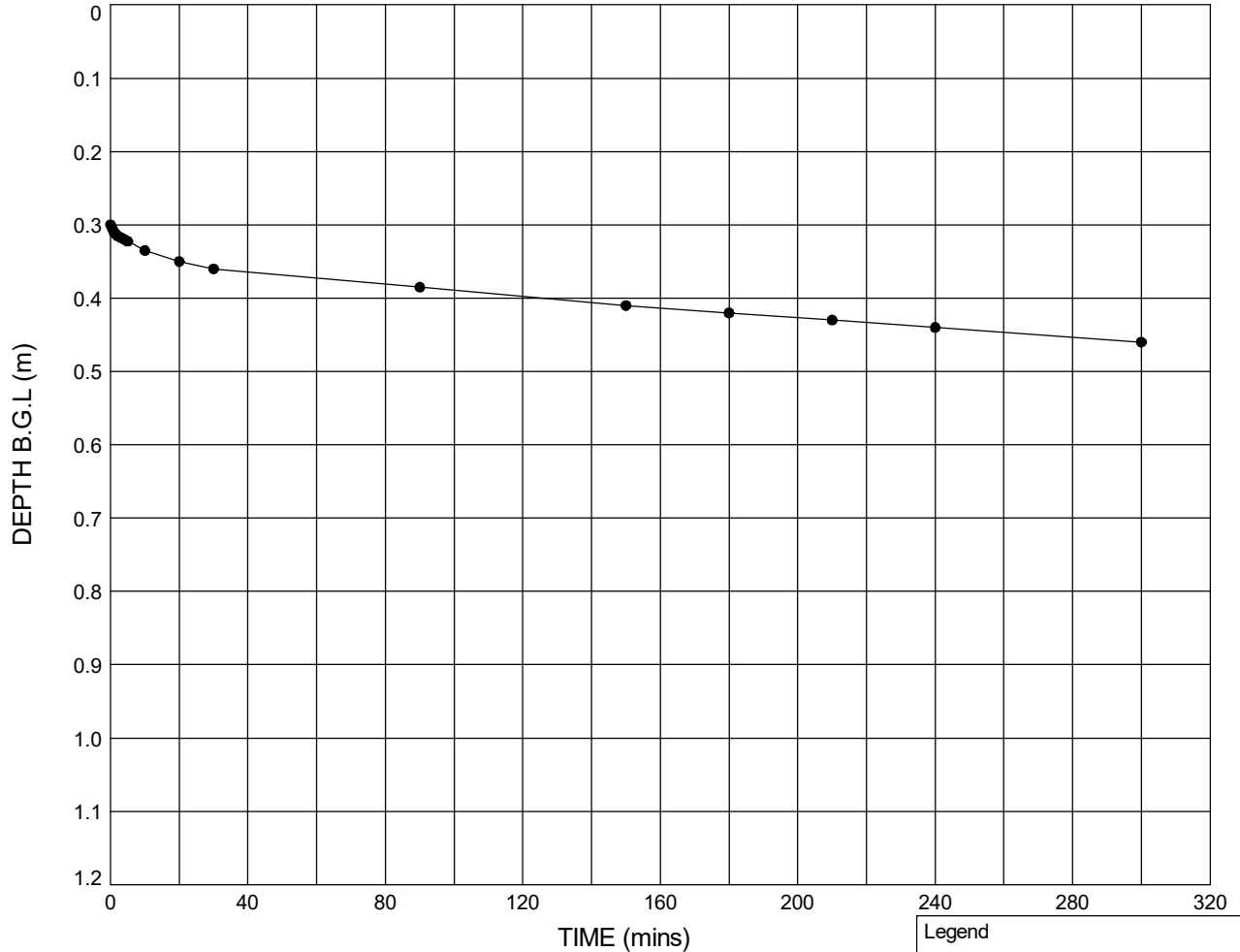
Structural Soils Ltd 1a Princess Street Bedminster Bristol BS3 4AG Tel.0117 9471000. e-mail dimitris.xirouchakis@soils.co.uk

FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA1

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Pit start depth: = **1.19** m
 Pit final depth: = **1.14** m
 Effective depth, D_e = **0.89** m
 Effective storage volume, V_{p75-25} = **0.2003** m³
 Surface area, a_{p50} = **2.0520** m²
 Time, t_{p75-25} = **N/A** secs
 Infiltration rate, f = **N/A** m/s

Notes: Test 1 - Unable to calculate infiltration rate due to insufficient drop in water level.

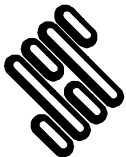
Legend

● Test 1 (16.09.20)

Plan (Not to scale)

No Bearing Taken

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PdfVersion: v8_07 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 749649-GINT.GPJ - v10_01. | 17/09/20 - 11:09 | KL2 |



STRUCTURAL SOILS
 1a Princess Street
 Bedminster
 Bristol
 BS3 4AG

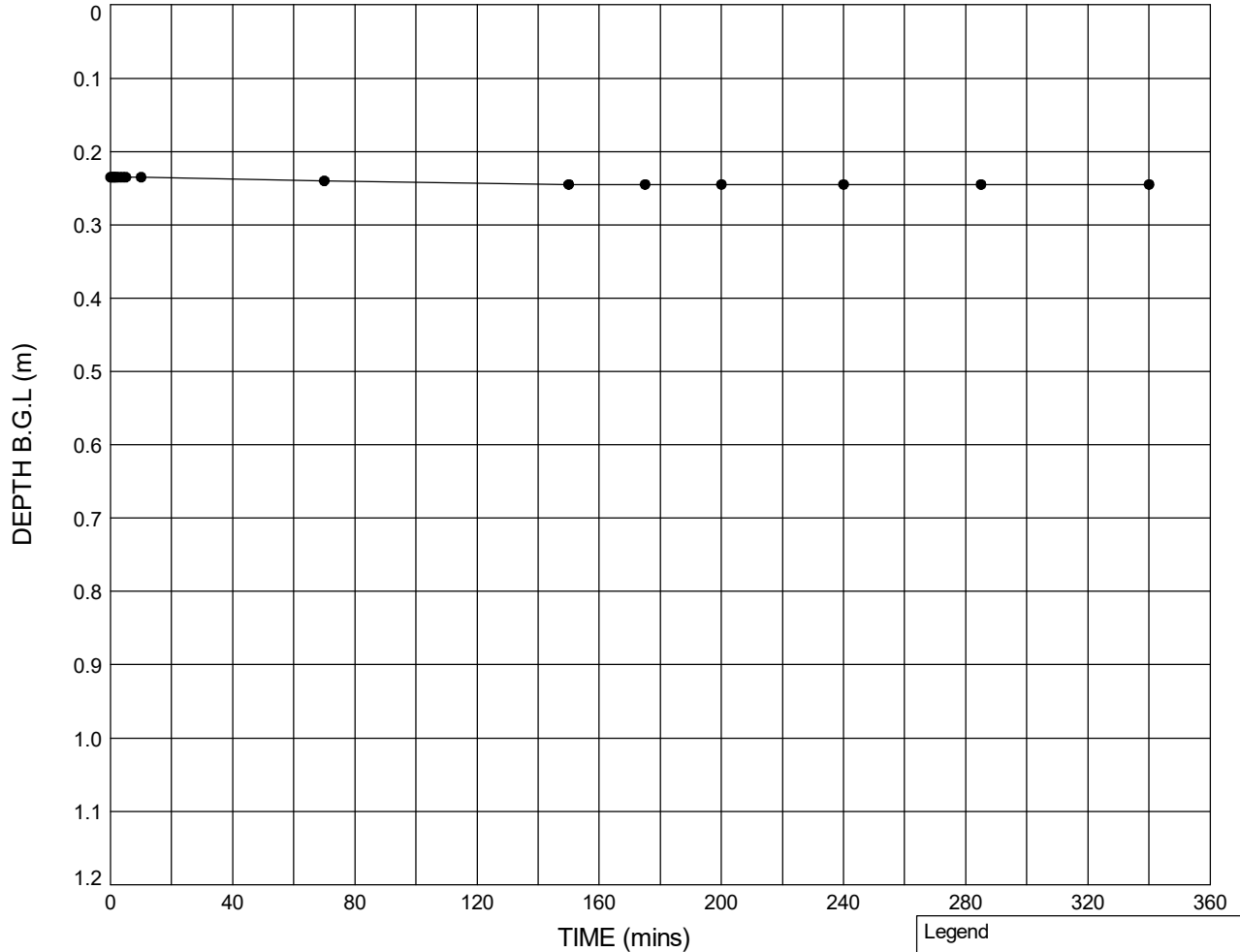
Compiled By	Date	Checked By	Date
<i>KFLunocher</i>	17/09/20	<i>S.A.R.</i>	17/09/20
Contract		Contract Ref:	
Browns Lane, Coventry		749649	

FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA2

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Pit start depth: = **1.17** m
 Pit final depth: = **1.12** m
 Effective depth, D_e = **0.89** m
 Effective storage volume, V_{p75-25} = **0.1991** m³
 Surface area, a_{p50} = **2.0430** m²
 Time, t_{p75-25} = **N/A** secs
 Infiltration rate, f = **N/A** m/s

Notes: Test 1 - Unable to calculate infiltration rate due to insufficient drop in water level.

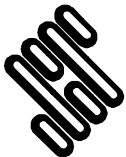
Legend

● Test 1 (16.09.20)

Plan (Not to scale)

No Bearing Taken

GINT_LIBRARY_V10_01_GLB LibVersion: v8_07_001 PdfVersion: v8_07 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 749649-GINT.GPJ - v10_01. | 17/09/20 - 11:12 | KL2 |



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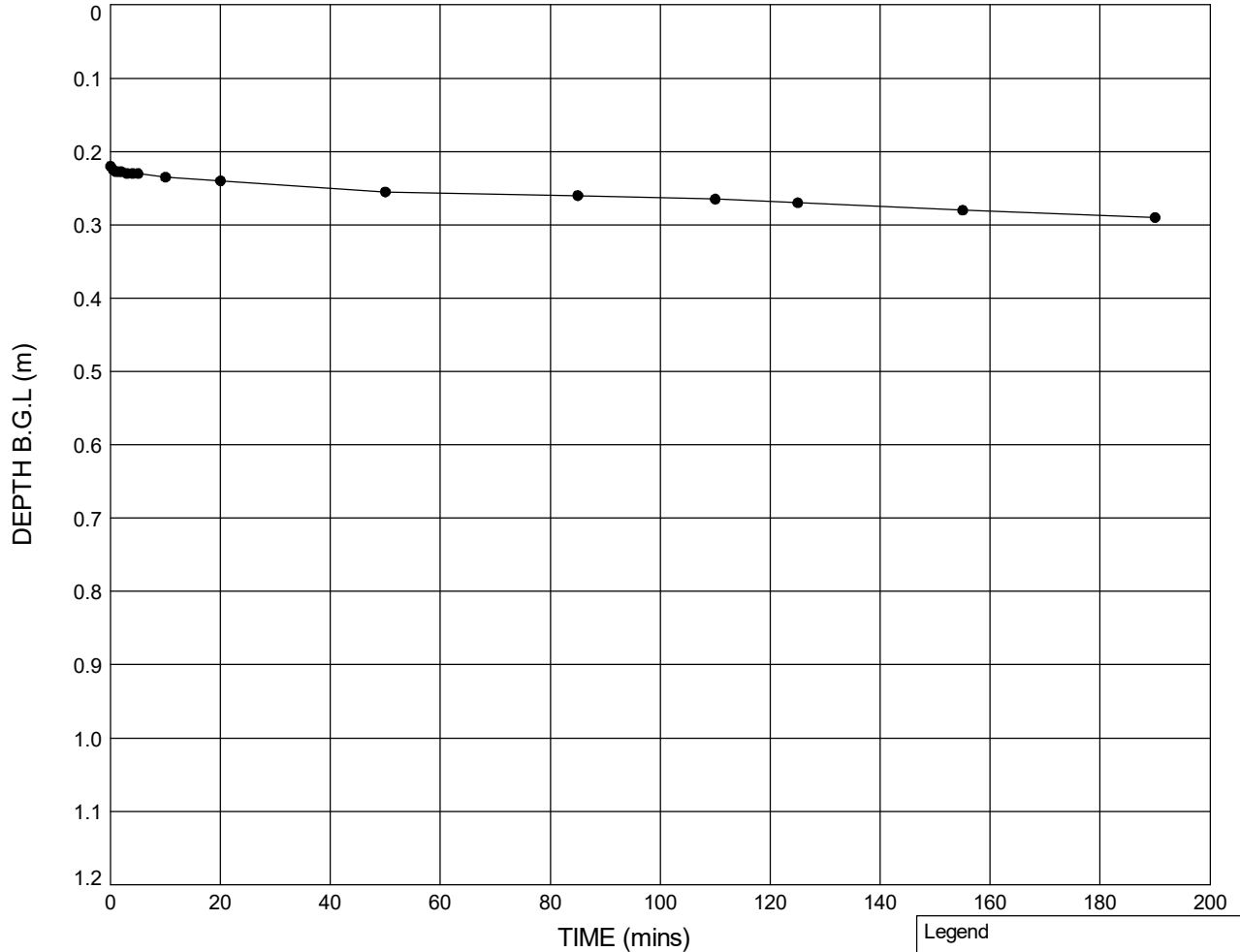
Compiled By	Date	Checked By	Date
<i>KFLunocher</i>	17/09/20	<i>S.A.R.</i>	17/09/20
Contract		Contract Ref:	
Browns Lane, Coventry		749649	

FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA3

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Test 1

Pit start depth: = **1.16** m

Pit final depth: = **1.10** m

Effective depth, D_e = **0.88** m

Effective storage volume, V_{p75-25} = **0.2244** m³

Surface area, a_{p50} = **2.2700** m²

Time, t_{p75-25} = **N/A** secs

Infiltration rate, f = **N/A** m/s

Notes: Test 1 - Unable to calculate infiltration rate due to insufficient drop in water level.

Legend

● Test 1 (16.09.20)

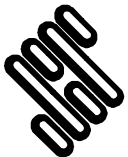
Plan (Not to scale)

1.70

0.30

No Bearing Taken

GINT_LIBRARY_V10_01_GLB LibVersion: v8_07_001 PdfVersion: v8_07 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 749649-GINT.GPJ - v10_01. | 17/09/20 - 11:13 | KL2 |



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1a Princess Street
Bedminster
Bristol
BS3 4AG

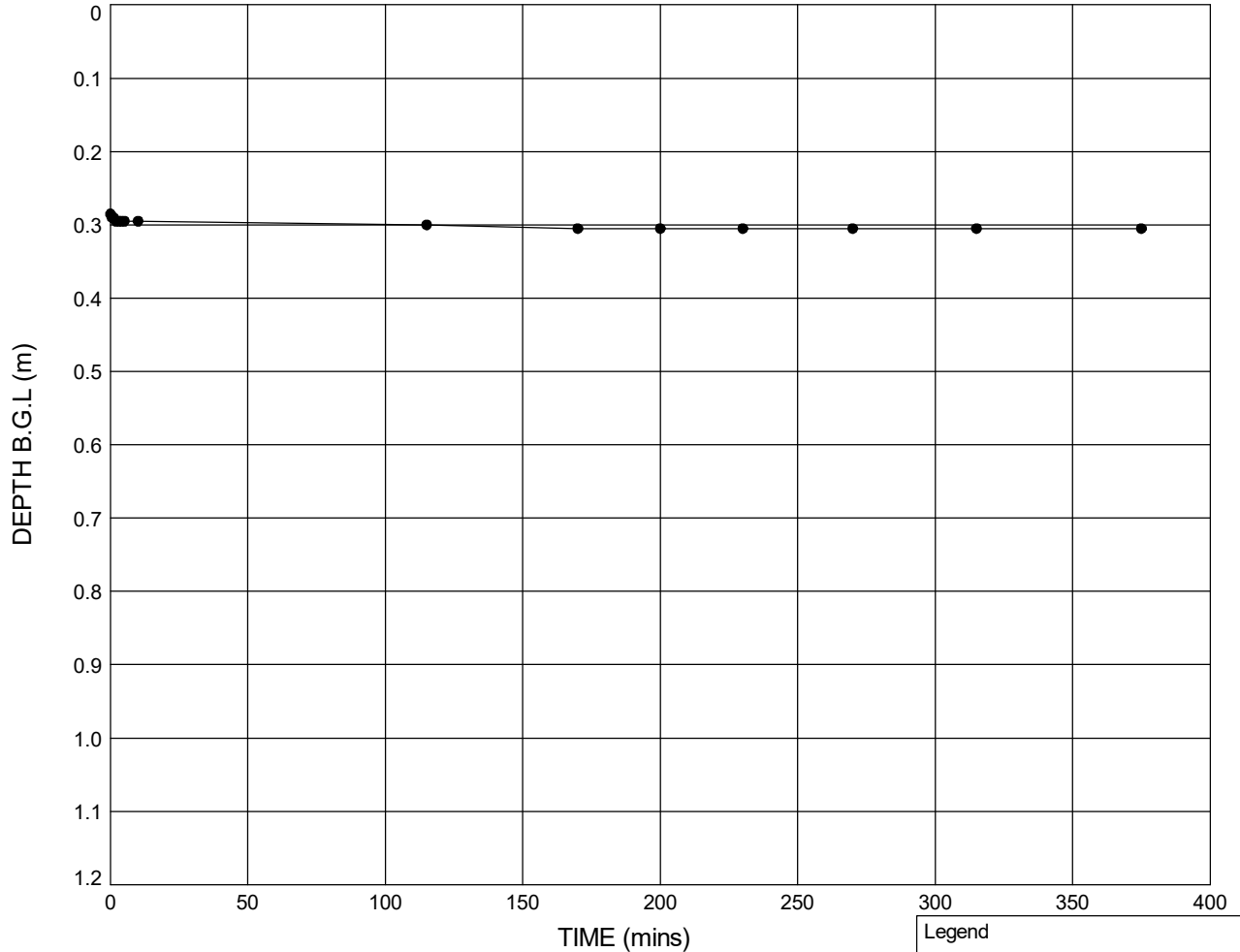
Compiled By	Date	Checked By	Date
<i>KFLunocher</i>	17/09/20	<i>S.A.R.</i>	17/09/20
Contract		Contract Ref:	
Browns Lane, Coventry		749649	

FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA4

Plot of Depth of Water Below Ground Level Against Time



Pit start depth: = **1.18** m
 Pit final depth: = **1.11** m
 Effective depth, D_e = **0.83** m
 Effective storage volume, V_{p75-25} = **0.1980** m³
 Surface area, a_{p50} = **2.0475** m²
 Time, t_{p75-25} = **N/A** secs
 Infiltration rate, f = **N/A** m/s

Notes: Test 1 - Unable to calculate infiltration rate due to insufficient drop in water level.

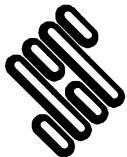
Legend

● Test 1 (16.09.20)

Plan (Not to scale)

No Bearing Taken

GINT_LIBRARY_V10_01_GLB LibVersion: v8_07_001 PdfVersion: v8_07 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 749649-GINT.GPJ - v10_01. | 17/09/20 - 11:14 | KL2 |



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 BS3 4AG

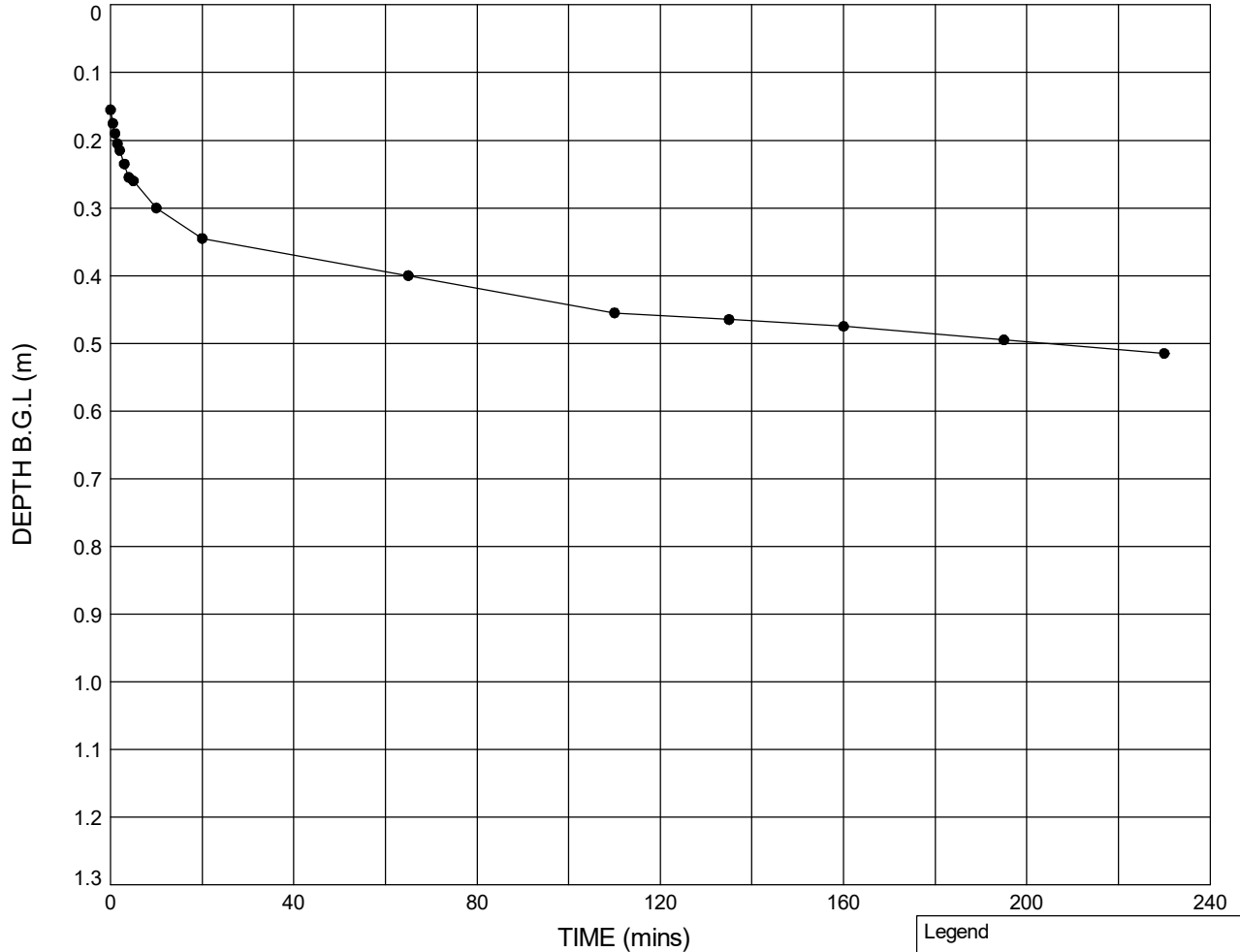
Compiled By	Date	Checked By	Date
<i>KFL</i>	17/09/20	<i>SAR</i>	17/09/20
Contract		Contract Ref:	
Browns Lane, Coventry		749649	

FULL SCALE SOAKAWAY TEST

Non-standard test

Soakaway Test - Position ID : SA5

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Pit start depth: = **1.30** m
 Pit final depth: = **1.22** m
 Effective depth, D_e = **1.07** m
 Effective storage volume, V_{p75-25} = **0.1997** m³
 Surface area, a_{p50} = **2.0258** m²
 Time, t_{p75-25} = **54926** secs
 Infiltration rate, f = **1.79×10^{-6}** m/s

Please note test data was extrapolated to obtain $t_{p75-tp25}$.

Legend

● Test 1 (16.09.20)

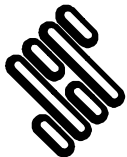
Plan (Not to scale)

1.25

0.30

No Bearing Taken

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PdfVersion: v8_07 | Graph 1 - TP SOAKAWAY - 2 - FINAL REPORT - A4P | 749649-GINT.GPJ - v10_01. | 17/09/20 - 13:54 | KL2 |



STRUCTURAL SOILS
 1a Princess Street
 Bedminster
 Bristol
 BS3 4AG

Compiled By	Date	Checked By	Date
<i>KFL</i>	17/09/20	<i>SAR</i>	17/09/20
Contract		Contract Ref:	
Browns Lane, Coventry		749649	



APPENDIX I LABORATORY CERTIFICATES FOR SOIL ANALYSIS

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/08021
Issue Number: 1
Date: 16 October, 2020

Client: RSK Environment Ltd Coventry
Humber Road, Abbey Park
Coventry
UK
CV3 4AQ

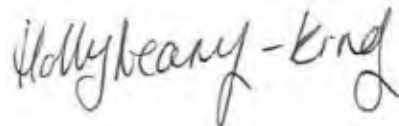
Project Manager: Emma Wild/Michael Lawson
Project Name: Brown's Lane
Project Ref: 252332
Order No: N/A
Date Samples Received: 22/09/20
Date Instructions Received: 23/09/20
Date Analysis Completed: 16/10/20

Prepared by:



Richard Wong
Client Manager

Approved by:



Holly Neary-King
Client Services Supervisor

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/1	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SA1	TP3	TP6	TP6	TP7	TP8	TP15			
Depth to Top	0.20	0.10	0.20	0.80	0.10	0.40	0.30			
Depth To Bottom										
Date Sampled	16-Sep-20	14-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	14-Sep-20	03-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5AE	4AE	4AE	6AE	5A	6AE			
% Stones >10mm _A	14.4	<0.1	13.5	0.4	<0.1	3.3	4.1			
pH _D ^{M#}	5.79	6.27	4.49	-	4.73	6.55	6.00	pH	0.01	A-T-031s
pH BRE _D ^{M#}	-	-	-	5.27	-	-	-	pH	0.01	A-T-031s
Chloride BRE, SO4 equiv. (water sol 2:1) _D	-	-	-	<7	-	-	-	mg/l	7	A-T-026s
Nitrate BRE, SO4 equiv. (water sol 2:1) _D	-	-	-	<0.4	-	-	-	mg/l	0.4	A-T-026s
Sulphate BRE (water sol 2:1) _D ^{M#}	-	-	-	12	-	-	-	mg/l	10	A-T-026s
Total Organic Carbon _D ^{M#}	1.33	1.25	1.76	-	2.53	0.21	0.88	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	<1	<1	<1	-	2	<1	<1	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	0.6	<0.5	-	<0.5	0.7	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	11	16	11	-	15	26	13	mg/kg	1	A-T-024s
Chromium _D ^{M#}	16	22	18	-	14	36	23	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	23	36	26	-	41	11	17	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	-	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	13	15	13	-	11	28	17	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	44	54	53	-	51	51	51	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	*	*	*	-	*	*	*			A-T-001
Arsenic (leachable) _A [#]	3	2	<1	-	<1	2	<1	µg/l	1	A-T-025w
Cadmium (leachable) _A [#]	<1	<1	<1	-	<1	<1	<1	µg/l	1	A-T-025w
Copper (leachable) _A [#]	48	13	15	-	14	15	24	µg/l	1	A-T-025w
Chromium (leachable) _A [#]	2	2	1	-	<1	6	2	µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	mg/l	0.05	A-T-040w
Lead (leachable) _A [#]	70	17	15	-	13	7	10	µg/l	1	A-T-025w
Mercury (leachable) _A [#]	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Nickel (leachable) _A [#]	10	4	5	-	3	5	7	µg/l	1	A-T-025w
Selenium (leachable) _A [#]	1	<1	<1	-	<1	<1	<1	µg/l	1	A-T-025w
Zinc (leachable) _A [#]	38	30	24	-	26	15	17	µg/l	1	A-T-025w

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/1	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SA1	TP3	TP6	TP6	TP7	TP8	TP15			
Depth to Top	0.20	0.10	0.20	0.80	0.10	0.40	0.30			
Depth To Bottom										
Date Sampled	16-Sep-20	14-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	14-Sep-20	03-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5AE	4AE	4AE	6AE	5A	6AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	-	NAD	NAD	NAD			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? ^D	N/A	N/A	N/A	-	N/A	N/A	N/A			A-T-045
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Tecnazene _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Trifluralin _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Simazine _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Atrazine _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Quintozene (PCNB) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Chlorothalonil _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Triallate _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Heptachlor _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Aldrin _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Triadimefon _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Telodrin _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Isodrin _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Pendimethalin _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Heptachlor epoxide _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
trans-Chlordane (Gamma) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
o,p-DDE (2,4) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endosulphan I (Alpha) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
cis-Chlordane (Alpha) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
p,p-DDE (4,4) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Dieldrin _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
o,p-DDD (2,4) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endrin _A	-	<0.18	-	-	<0.18	-	-	mg/kg	0.01	A-T-056

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Lab Sample ID	20/08021/1	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SA1	TP3	TP6	TP6	TP7	TP8	TP15			
Depth to Top	0.20	0.10	0.20	0.80	0.10	0.40	0.30			
Depth To Bottom										
Date Sampled	16-Sep-20	14-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	14-Sep-20	03-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5AE	4AE	4AE	6AE	5A	6AE			
Endosulphan II (Beta) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endrin Aldehyde _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endrin Ketone _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Permethrin I (cis) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Permethrin II (trans) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Dichlorvos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Mevinphos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Demeton-S _A	-	<0.50	-	-	<0.50	-	-	mg/kg	0.5	A-T-056
Demeton-O _A	-	<0.50	-	-	<0.50	-	-	mg/kg	0.5	A-T-056
Phorate _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Dimethoate _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Propetamphos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Disulfoton _A	-	<0.10	-	-	<0.10	-	-	mg/kg	0.1	A-T-056
Etrimphos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Methyl Parathion _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Fenitrothion _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Fensulphothion _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Fenthion _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Malathion _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Chlorfenvinphos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Chlorpyrifos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Trichloronate _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Ethion _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/1	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SA1	TP3	TP6	TP6	TP7	TP8	TP15			
Depth to Top	0.20	0.10	0.20	0.80	0.10	0.40	0.30			
Depth To Bottom										
Date Sampled	16-Sep-20	14-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	14-Sep-20	03-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5AE	4AE	4AE	6AE	5A	6AE			
Triazophos _A	-	<0.01	-	-	<0.01	-	-			
Sulprofos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Carbophenothion _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Phosalone _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Azinphos-methyl _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Azinphos-ethyl _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Coumaphos _A	-	<0.01	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
ONP (Organonitrogen Pesticides) \$\$										
Ametryn _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Atraton _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Atrazine _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Prometon _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Propazine _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Prometryn _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Simazine _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Simetryn _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Terbutylazine _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Terbutryn _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Secbumetona _A	-	<0.2	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/1	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	SA1	TP3	TP6	TP6	TP7	TP8	TP15			
Depth to Top	0.20	0.10	0.20	0.80	0.10	0.40	0.30			
Depth To Bottom										
Date Sampled	16-Sep-20	14-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	14-Sep-20	03-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5AE	4AE	4AE	6AE	5A	6AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	-	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	<0.04	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	-	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	-	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	-	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	<0.03	<0.03	-	0.04	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	-	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	<0.08	<0.08	-	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

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Lab Sample ID	20/08021/1	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	SA1	TP3	TP6	TP6	TP7	TP8	TP15						
Depth to Top	0.20	0.10	0.20	0.80	0.10	0.40	0.30						
Depth To Bottom													
Date Sampled	16-Sep-20	14-Sep-20	04-Sep-20	04-Sep-20	04-Sep-20	14-Sep-20	03-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	4AE	5AE	4AE	4AE	6AE	5A	6AE						
TPH CWG													
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	2	1	7	-	5	<1	<1	mg/kg	1	A-T-055s			
Total Aliphatics _A	2	1	7	-	5	<1	<1	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	3	2	4	-	10	<1	<1	mg/kg	1	A-T-055s			
Total Aromatics _A	3	2	4	-	10	<1	<1	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	5	3	11	-	15	<1	<1	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
MTBE _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/13	20/08021/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP16	TP17	TP19	TP22	TP22	TP24	TP24			
Depth to Top	0.20	0.10	0.30	0.30	2.00	0.30	0.60			
Depth To Bottom										
Date Sampled	14-Sep-20	15-Sep-20	03-Sep-20	03-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	6AE	4AE	5AE	7	6AE	4AE			
% Stones >10mm _A	<0.1	<0.1	<0.1	4.8	<0.1	11.7	11.0			
pH _D ^{M#}	7.55	6.81	6.81	6.31	-	6.49	-	pH	0.01	A-T-031s
pH BRE _D ^{M#}	-	-	6.81	-	-	-	6.70	pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	-	-	<10	-	-	-	<10	mg/l	10	A-T-026s
Total Organic Carbon _D ^{M#}	2.16	1.94	1.76	0.96	-	1.49	-	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	2	4	<1	<1	-	3	-	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	0.8	0.9	<0.5	<0.5	-	0.5	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	22	22	15	11	-	19	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	26	30	22	19	-	23	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	47	45	31	27	-	33	-	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	-	<0.17	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	22	17	17	14	-	17	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	78	70	61	47	-	57	-	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	*	*	*	*	-	*	-			A-T-001
Arsenic (leachable) _A [#]	1	6	1	<1	-	4	-	µg/l	1	A-T-025w
Cadmium (leachable) _A [#]	<1	<1	<1	<1	-	<1	-	µg/l	1	A-T-025w
Copper (leachable) _A [#]	8	19	18	21	-	29	-	µg/l	1	A-T-025w
Chromium (leachable) _A [#]	1	2	<1	1	-	2	-	µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	mg/l	0.05	A-T-040w
Lead (leachable) _A [#]	5	18	19	37	-	29	-	µg/l	1	A-T-025w
Mercury (leachable) _A [#]	<0.1	<0.1	<0.1	0.1	-	<0.1	-	µg/l	0.1	A-T-025w
Nickel (leachable) _A [#]	2	4	5	5	-	5	-	µg/l	1	A-T-025w
Selenium (leachable) _A [#]	<1	<1	<1	<1	-	<1	-	µg/l	1	A-T-025w
Zinc (leachable) _A [#]	10	25	15	12	-	42	-	µg/l	1	A-T-025w

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Lab Sample ID	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/13	20/08021/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP16	TP17	TP19	TP22	TP22	TP24	TP24			
Depth to Top	0.20	0.10	0.30	0.30	2.00	0.30	0.60			
Depth To Bottom										
Date Sampled	14-Sep-20	15-Sep-20	03-Sep-20	03-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	6AE	4AE	5AE	7	6AE	4AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	NAD	-	NAD	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	-	N/A	-			A-T-045
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Tecnazene _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Trifluralin _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Simazine _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Atrazine _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Quintozone (PCNB) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorothalonil _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Triallate _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Heptachlor _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Aldrin _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Triadimefon _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Telodrin _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Isodrin _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Pendimethalin _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Heptachlor epoxide _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
trans-Chlordane (Gamma) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-DDE (2,4) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endosulphan I (Alpha) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
cis-Chlordane (Alpha) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-DDE (4,4) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Dieldrin _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-DDD (2,4) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endrin _A	-	-	<0.18	-	-	<0.18	-	mg/kg	0.01	A-T-056

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Lab Sample ID	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/13	20/08021/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP16	TP17	TP19	TP22	TP22	TP24	TP24			
Depth to Top	0.20	0.10	0.30	0.30	2.00	0.30	0.60			
Depth To Bottom										
Date Sampled	14-Sep-20	15-Sep-20	03-Sep-20	03-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	6AE	4AE	5AE	7	6AE	4AE			
Endosulphan II (Beta) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endrin Aldehyde _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endrin Ketone _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Permethrin I (cis) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Permethrin II (trans) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Dichlorvos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Mevinphos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Demeton-S _A	-	-	<0.50	-	-	<0.50	-	mg/kg	0.5	A-T-056
Demeton-O _A	-	-	<0.50	-	-	<0.50	-	mg/kg	0.5	A-T-056
Phorate _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Dimethoate _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Propetamphos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Disulfoton _A	-	-	<0.10	-	-	<0.10	-	mg/kg	0.1	A-T-056
Etrimphos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Methyl Parathion _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Fenitrothion _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Fensulphothion _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Fenthion _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Malathion _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorfenvinphos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorpyrifos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Trichloronate _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Ethion _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056

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Client Project Ref: 252332

Lab Sample ID	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/13	20/08021/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP16	TP17	TP19	TP22	TP22	TP24	TP24			
Depth to Top	0.20	0.10	0.30	0.30	2.00	0.30	0.60			
Depth To Bottom										
Date Sampled	14-Sep-20	15-Sep-20	03-Sep-20	03-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	6AE	4AE	5AE	7	6AE	4AE			
Triazophos _A	-	-	0.02	-	-	<0.01	-			
Sulprofos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Carbophenothion _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Phosalone _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Azinphos-methyl _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Azinphos-ethyl _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
Coumaphos _A	-	-	<0.01	-	-	<0.01	-	mg/kg	0.01	A-T-056
ONP (Organonitrogen Pesticides) \$\$										
Ametryn _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Atraton _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Atrazine _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Prometon _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Propazine _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Prometryn _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Simazine _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Simetryn _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Terbutylazine _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Terbutryn _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Secbumeton _A	-	-	<0.2	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest

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Client Project Ref: 252332

Lab Sample ID	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/13	20/08021/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP16	TP17	TP19	TP22	TP22	TP24	TP24			
Depth to Top	0.20	0.10	0.30	0.30	2.00	0.30	0.60			
Depth To Bottom										
Date Sampled	14-Sep-20	15-Sep-20	03-Sep-20	03-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	6AE	4AE	5AE	7	6AE	4AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	-	-	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.06	<0.04	<0.04	<0.04	-	-	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.11	<0.04	<0.04	<0.04	-	-	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.12	<0.05	<0.05	<0.05	-	-	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.09	<0.05	<0.05	<0.05	-	-	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	-	-	-	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.09	<0.06	<0.06	<0.06	-	-	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	-	-	-	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.11	<0.08	<0.08	<0.08	-	-	-	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	-	-	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.11	0.04	<0.03	<0.03	-	-	-	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	-	-	-	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	-	-	-	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.11	<0.07	<0.07	<0.07	-	-	-	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	0.80	<0.08	<0.08	<0.08	-	-	-	mg/kg	0.01	A-T-019s

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Client Project Ref: 252332

Lab Sample ID	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/13	20/08021/14	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	TP16	TP17	TP19	TP22	TP22	TP24	TP24						
Depth to Top	0.20	0.10	0.30	0.30	2.00	0.30	0.60						
Depth To Bottom													
Date Sampled	14-Sep-20	15-Sep-20	03-Sep-20	03-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Solid	Soil - ES	Soil - ES						
Sample Matrix Code	5AE	6AE	4AE	5AE	7	6AE	4AE						
TPH CWG													
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	<1	<1	<1	-	<1	-	-	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	<1	<1	<1	-	<1	-	-	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	<1	<1	<1	-	<1	-	-	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	<1	<1	<1	-	<1	-	-	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	4	4	3	-	<1	-	-	mg/kg	1	A-T-055s			
Total Aliphatics _A	4	4	3	-	<1	-	-	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	<1	<1	<1	-	<1	-	-	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	<1	<1	<1	-	<1	-	-	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	<1	<1	3	-	<1	-	-	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	5	<1	2	-	<1	-	-	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	22	7	8	-	<1	-	-	mg/kg	1	A-T-055s			
Total Aromatics _A	27	7	14	-	<1	-	-	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	31	11	17	-	<1	-	-	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			
MTBE _A [#]	<0.01	<0.01	<0.01	-	<0.01	-	-	mg/kg	0.01	A-T-022s			

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Lab Sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP25	TP26	TP27	TP30	TP33	TP34	TP35			
Depth to Top	0.25	1.80	0.30	0.10	0.10	0.50	0.20			
Depth To Bottom										
Date Sampled	04-Sep-20	03-Sep-20	03-Sep-20	14-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5A	6AE	5AE	4AE	5AE	6AE			
% Stones >10mm _A	2.4	3.5	<0.1	<0.1	<0.1	3.4	<0.1			
pH _D ^{M#}	5.88	-	6.56	6.84	5.66	8.10	6.30	pH	0.01	A-T-031s
pH BRE _D ^{M#}	-	8.31	-	-	-	8.10	-	pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	-	<10	-	-	-	57	-	mg/l	10	A-T-026s
Total Organic Carbon _D ^{M#}	2.16	-	1.10	2.08	2.83	0.39	1.81	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	2	-	<1	3	2	2	3	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	-	<0.5	0.7	0.6	0.6	0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	15	-	11	17	16	8	17	mg/kg	1	A-T-024s
Chromium _D ^{M#}	20	-	23	22	26	18	21	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	-	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	35	-	24	44	31	15	46	mg/kg	1	A-T-024s
Mercury _D	<0.17	-	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	14	-	16	18	17	18	16	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	-	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	61	-	53	66	71	49	60	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	*	-	*	*	*	*	*			A-T-001
Arsenic (leachable) _A [#]	1	-	1	3	1	<1	2	µg/l	1	A-T-025w
Cadmium (leachable) _A [#]	<1	-	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Copper (leachable) _A [#]	30	-	19	13	18	3	25	µg/l	1	A-T-025w
Chromium (leachable) _A [#]	2	-	1	2	2	1	2	µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	mg/l	0.05	A-T-040w
Lead (leachable) _A [#]	42	-	11	23	11	<1	27	µg/l	1	A-T-025w
Mercury (leachable) _A [#]	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Nickel (leachable) _A [#]	7	-	5	3	7	<1	6	µg/l	1	A-T-025w
Selenium (leachable) _A [#]	1	-	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Zinc (leachable) _A [#]	22	-	19	22	31	6	39	µg/l	1	A-T-025w

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Lab Sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP25	TP26	TP27	TP30	TP33	TP34	TP35			
Depth to Top	0.25	1.80	0.30	0.10	0.10	0.50	0.20			
Depth To Bottom										
Date Sampled	04-Sep-20	03-Sep-20	03-Sep-20	14-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5A	6AE	5AE	4AE	5AE	6AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	-	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	-	N/A	N/A	N/A	N/A	N/A			A-T-045
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Tecnazene _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Trifluralin _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Simazine _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Atrazine _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Quintozene (PCNB) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Chlorothalonil _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Triallate _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Heptachlor _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Aldrin _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Triadimefon _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Telodrin _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Isodrin _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Pendimethalin _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Heptachlor epoxide _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
trans-Chlordane (Gamma) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
o,p-DDE (2,4) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Endosulphan I (Alpha) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
cis-Chlordane (Alpha) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
p,p-DDE (4,4) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Dieldrin _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
o,p-DDD (2,4) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Endrin _A	<0.18	-	<0.18	<0.18	<0.18	-	<0.18	mg/kg	0.01	A-T-056

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Lab Sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP25	TP26	TP27	TP30	TP33	TP34	TP35			
Depth to Top	0.25	1.80	0.30	0.10	0.10	0.50	0.20			
Depth To Bottom										
Date Sampled	04-Sep-20	03-Sep-20	03-Sep-20	14-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5A	6AE	5AE	4AE	5AE	6AE			
Endosulphan II (Beta) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Endrin Aldehyde _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Endrin Ketone _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Permethrin I (cis) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Permethrin II (trans) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Dichlorvos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Mevinphos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Demeton-S _A	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	mg/kg	0.5	A-T-056
Demeton-O _A	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	mg/kg	0.5	A-T-056
Phorate _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Dimethoate _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Propetamphos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Disulfoton _A	<0.10	-	<0.10	<0.10	<0.10	-	<0.10	mg/kg	0.1	A-T-056
Etrimphos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Methyl Parathion _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Fenitrothion _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Fensulphothion _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Fenthion _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Malathion _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Chlorfenvinphos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Chlorpyrifos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Trichloronate _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Ethion _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056

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Client Project Ref: 252332

Lab Sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP25	TP26	TP27	TP30	TP33	TP34	TP35			
Depth to Top	0.25	1.80	0.30	0.10	0.10	0.50	0.20			
Depth To Bottom										
Date Sampled	04-Sep-20	03-Sep-20	03-Sep-20	14-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5A	6AE	5AE	4AE	5AE	6AE			
Triazophos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01			
Sulprofos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Carbophenothion _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Phosalone _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Azinphos-methyl _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Azinphos-ethyl _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
Coumaphos _A	<0.01	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	0.01	A-T-056
ONP (Organonitrogen Pesticides) \$\$										
Ametryn _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Atraton _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Atrazine _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Prometon _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Propazine _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Prometryn _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Simazine _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Simetryn _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Terbutylazine _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Terbutryn _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest
Secbumeton _A	<0.2	-	<0.2	<0.2	<0.2	-	<0.2	mg/kg	0.2	Subcon Chemtest

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Client Project Ref: 252332

Lab Sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP25	TP26	TP27	TP30	TP33	TP34	TP35			
Depth to Top	0.25	1.80	0.30	0.10	0.10	0.50	0.20			
Depth To Bottom										
Date Sampled	04-Sep-20	03-Sep-20	03-Sep-20	14-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5A	6AE	5AE	4AE	5AE	6AE			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	-	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	-	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	-	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	-	<0.06	<0.06	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	-	<0.04	<0.04	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	-	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.04	-	<0.03	<0.03	0.05	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	-	<0.07	<0.07	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	-	<0.08	<0.08	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP25	TP26	TP27	TP30	TP33	TP34	TP35			
Depth to Top	0.25	1.80	0.30	0.10	0.10	0.50	0.20			
Depth To Bottom										
Date Sampled	04-Sep-20	03-Sep-20	03-Sep-20	14-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	5A	6AE	5AE	4AE	5AE	6AE			
Speciated PCB-EC7 & WHO12										
PCB BZ 28 ^{M#}	-	-	-	-	-	<0.002	-	mg/kg	0.002	A-T-004s
PCB BZ 52 ^{M#}	-	-	-	-	-	<0.002	-	mg/kg	0.002	A-T-004s
PCB BZ 81 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 101 ^{M#}	-	-	-	-	-	<0.004	-	mg/kg	0.004	A-T-004s
PCB BZ 105 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 114 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 118 ^{M#}	-	-	-	-	-	<0.007	-	mg/kg	0.007	A-T-004s
PCB BZ 123 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 126 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 138 ^{M#}	-	-	-	-	-	<0.006	-	mg/kg	0.006	A-T-004s
PCB BZ 153 ^{M#}	-	-	-	-	-	<0.004	-	mg/kg	0.004	A-T-004s
PCB BZ 156 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 157 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 167 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 169 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 180 ^{M#}	-	-	-	-	-	<0.004	-	mg/kg	0.004	A-T-004s
PCB BZ 189 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
PCB BZ 77 ^A	-	-	-	-	-	<0.005	-	mg/kg	0.005	A-T-004s
Total Speciated PCB-EC7 & WHO12 ^A	-	-	-	-	-	<0.007	-	mg/kg	0.002	A-T-004s

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Client Project Ref: 252332

Lab Sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	TP25	TP26	TP27	TP30	TP33	TP34	TP35						
Depth to Top	0.25	1.80	0.30	0.10	0.10	0.50	0.20						
Depth To Bottom													
Date Sampled	04-Sep-20	03-Sep-20	03-Sep-20	14-Sep-20	03-Sep-20	15-Sep-20	15-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	4AE	5A	6AE	5AE	4AE	5AE	6AE						
TPH CWG													
Ali >C5-C6 _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	-	-	<1	1	7	<1	-	mg/kg	1	A-T-055s			
Total Aliphatics _A	-	-	<1	1	7	<1	-	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	-	-	<1	<1	<1	<1	-	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	-	-	2	4	10	<1	-	mg/kg	1	A-T-055s			
Total Aromatics _A	-	-	2	4	10	<1	-	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	-	-	2	5	17	<1	-	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			
MTBE _A [#]	-	-	<0.01	<0.01	<0.01	<0.01	-	mg/kg	0.01	A-T-022s			

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Lab Sample ID	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27	20/08021/28	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP37	TP39	TP40	TP41	TP42	TP43	TP43			
Depth to Top	0.10	0.30	0.30	0.40	0.30	0.10	1.00			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	03-Sep-20	15-Sep-20	02-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	6AE	4AE	6AE	5A	6AE	5AE	5A			
% Stones >10mm _A	<0.1	1.1	<0.1	12.7	<0.1	<0.1	43.6			
pH _D ^{M#}	5.77	4.77	6.19	5.31	-	8.55	-	pH	0.01	A-T-031s
pH BRE _D ^{M#}	-	-	-	-	-	-	8.14	pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	-	-	-	-	-	-	21	mg/l	10	A-T-026s
Total Organic Carbon _D ^{M#}	3.29	1.25	0.77	0.71	-	0.87	-	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	1	<1	176	10	-	2	-	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	0.7	<0.5	146	0.9	-	0.6	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	22	11	92	26	-	16	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	25	18	164	27	-	23	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	64	20	154	30	-	23	-	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	6.60	<0.17	-	0.26	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	17	13	149	24	-	22	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	154	<1	-	<1	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	88	53	183	72	-	61	-	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	*	*	*	*	-	*	-			A-T-001
Arsenic (leachable) _A [#]	2	1	<1	<1	-	5	-	µg/l	1	A-T-025w
Cadmium (leachable) _A [#]	<1	<1	<1	<1	-	<1	-	µg/l	1	A-T-025w
Copper (leachable) _A [#]	22	23	32	<1	-	15	-	µg/l	1	A-T-025w
Chromium (leachable) _A [#]	1	2	1	<1	-	3	-	µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	mg/l	0.05	A-T-040w
Lead (leachable) _A [#]	42	13	8	<1	-	15	-	µg/l	1	A-T-025w
Mercury (leachable) _A [#]	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	µg/l	0.1	A-T-025w
Nickel (leachable) _A [#]	5	11	9	3	-	6	-	µg/l	1	A-T-025w
Selenium (leachable) _A [#]	<1	<1	<1	<1	-	1	-	µg/l	1	A-T-025w
Zinc (leachable) _A [#]	23	37	21	6	-	32	-	µg/l	1	A-T-025w

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Client Project Ref: 252332

Lab Sample ID	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27	20/08021/28	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	TP37	TP39	TP40	TP41	TP42	TP43	TP43						
Depth to Top	0.10	0.30	0.30	0.40	0.30	0.10	1.00						
Depth To Bottom													
Date Sampled	02-Sep-20	02-Sep-20	03-Sep-20	15-Sep-20	02-Sep-20	04-Sep-20	04-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	6AE	4AE	6AE	5A	6AE	5AE	5A						
Asbestos in Soil (inc. matrix)													
Asbestos in soil [#]	NAD	NAD	NAD	NAD	-	NAD	-			A-T-045			
Asbestos ACM - Suitable for Water Absorption Test? ^D	N/A	N/A	N/A	N/A	-	N/A	-			A-T-045			
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)													
Dichlobenil _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Tecnazene _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Trifluralin _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
alpha-Hexachlorocyclohexane (HCH) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Hexachlorobenzene (HCB) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Simazine _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Atrazine _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
beta-Hexachlorocyclohexane (HCH) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Quintozone (PCNB) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Chlorothalonil _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
delta-Hexachlorocyclohexane (HCH) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Triallate _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Heptachlor _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Aldrin _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Triadimefon _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Telodrin _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Isodrin _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Pendimethalin _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Heptachlor epoxide _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
trans-Chlordane (Gamma) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
o,p-DDE (2,4) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Endosulphan I (Alpha) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
cis-Chlordane (Alpha) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
p,p-DDE (4,4) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Dieldrin _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
o,p-DDD (2,4) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056			
Endrin _A	-	-	-	-	<0.18	-	-	mg/kg	0.01	A-T-056			

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27	20/08021/28	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP37	TP39	TP40	TP41	TP42	TP43	TP43			
Depth to Top	0.10	0.30	0.30	0.40	0.30	0.10	1.00			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	03-Sep-20	15-Sep-20	02-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	6AE	4AE	6AE	5A	6AE	5AE	5A			
Endosulphan II (Beta) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endrin Aldehyde _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endrin Ketone _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Permethrin I (cis) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Permethrin II (trans) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Dichlorvos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Mevinphos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Demeton-S _A	-	-	-	-	<0.50	-	-	mg/kg	0.5	A-T-056
Demeton-O _A	-	-	-	-	<0.50	-	-	mg/kg	0.5	A-T-056
Phorate _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Dimethoate _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Propetamphos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Disulfoton _A	-	-	-	-	<0.10	-	-	mg/kg	0.1	A-T-056
Etrimphos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Methyl Parathion _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Fenitrothion _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Fensulphothion _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Fenthion _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Malathion _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Chlorfenvinphos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Chlorpyrifos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Trichloronate _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Ethion _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27	20/08021/28	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP37	TP39	TP40	TP41	TP42	TP43	TP43			
Depth to Top	0.10	0.30	0.30	0.40	0.30	0.10	1.00			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	03-Sep-20	15-Sep-20	02-Sep-20	04-Sep-20	04-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	6AE	4AE	6AE	5A	6AE	5AE	5A			
Triazophos _A	-	-	-	-	<0.01	-	-			
Sulprofos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Carbophenothion _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Phosalone _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Azinphos-methyl _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Azinphos-ethyl _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
Coumaphos _A	-	-	-	-	<0.01	-	-	mg/kg	0.01	A-T-056
ONP (Organonitrogen Pesticides) \$\$										
Ametryn _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Atraton _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Atrazine _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Prometon _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Propazine _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Prometryn _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Simazine _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Simetryn _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Terbutylazine _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Terbutryn _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest
Secbumeton _A	-	-	-	-	<0.2	-	-	mg/kg	0.2	Subcon Chemtest

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27	20/08021/28	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	TP37	TP39	TP40	TP41	TP42	TP43	TP43						
Depth to Top	0.10	0.30	0.30	0.40	0.30	0.10	1.00						
Depth To Bottom													
Date Sampled	02-Sep-20	02-Sep-20	03-Sep-20	15-Sep-20	02-Sep-20	04-Sep-20	04-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	6AE	4AE	6AE	5A	6AE	5AE	5A						
PAH-16MS													
Acenaphthene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	-	0.01	-	mg/kg	0.01	A-T-019s			
Acenaphthylene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-019s			
Anthracene _A ^{M#}	<0.02	<0.02	<0.02	<0.02	-	0.06	-	mg/kg	0.02	A-T-019s			
Benzo(a)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	-	0.12	-	mg/kg	0.04	A-T-019s			
Benzo(a)pyrene _A ^{M#}	0.06	<0.04	<0.04	<0.04	-	0.12	-	mg/kg	0.04	A-T-019s			
Benzo(b)fluoranthene _A ^{M#}	0.08	<0.05	<0.05	<0.05	-	0.11	-	mg/kg	0.05	A-T-019s			
Benzo(ghi)perylene _A ^{M#}	0.06	<0.05	<0.05	<0.05	-	0.07	-	mg/kg	0.05	A-T-019s			
Benzo(k)fluoranthene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	-	<0.07	-	mg/kg	0.07	A-T-019s			
Chrysene _A ^{M#}	<0.06	<0.06	<0.06	<0.06	-	0.17	-	mg/kg	0.06	A-T-019s			
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04	<0.04	<0.04	-	<0.04	-	mg/kg	0.04	A-T-019s			
Fluoranthene _A ^{M#}	<0.08	<0.08	<0.08	<0.08	-	0.15	-	mg/kg	0.08	A-T-019s			
Fluorene _A ^{M#}	<0.01	<0.01	<0.01	<0.01	-	0.02	-	mg/kg	0.01	A-T-019s			
Indeno(123-cd)pyrene _A ^{M#}	0.08	<0.03	<0.03	<0.03	-	0.08	-	mg/kg	0.03	A-T-019s			
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	-	<0.03	-	mg/kg	0.03	A-T-019s			
Phenanthrene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	-	0.19	-	mg/kg	0.03	A-T-019s			
Pyrene _A ^{M#}	<0.07	<0.07	<0.07	<0.07	-	0.15	-	mg/kg	0.07	A-T-019s			
Total PAH-16MS _A ^{M#}	0.28	<0.08	<0.08	<0.08	-	1.25	-	mg/kg	0.01	A-T-019s			

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Lab Sample ID	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27	20/08021/28	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	TP37	TP39	TP40	TP41	TP42	TP43	TP43						
Depth to Top	0.10	0.30	0.30	0.40	0.30	0.10	1.00						
Depth To Bottom													
Date Sampled	02-Sep-20	02-Sep-20	03-Sep-20	15-Sep-20	02-Sep-20	04-Sep-20	04-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	6AE	4AE	6AE	5A	6AE	5AE	5A						
TPH CWG													
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	5	6	<1	2	-	<1	-	mg/kg	1	A-T-055s			
Total Aliphatics _A	5	6	<1	2	-	<1	-	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	<1	<1	<1	<1	-	<1	-	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	<1	<1	<1	<1	-	1	-	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	9	3	<1	2	-	5	-	mg/kg	1	A-T-055s			
Total Aromatics _A	9	3	<1	2	-	6	-	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	14	9	<1	4	-	6	-	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	mg/kg	0.01	A-T-022s			

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Lab Sample ID	20/08021/29	20/08021/30	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/35	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP44	TP47	WS2	WS2	WS3	WS4	WS7			
Depth to Top	0.10	0.05	0.40	2.70	0.50	0.40	0.30			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	15-Sep-20	15-Sep-20	15-Sep-20	16-Sep-20	17-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	5AE	5A	5AE	5AE	4AE			
% Stones >10mm _A	7.3	0.4	<0.1	3.1	9.1	<0.1	35.5			
pH _D ^{M#}	6.72	6.19	7.97	-	7.24	6.29	7.16	pH	0.01	A-T-031s
pH BRE _D ^{M#}	-	-	-	8.19	-	-	-	pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	-	-	-	16	-	-	-	mg/l	10	A-T-026s
Total Organic Carbon _D ^{M#}	5.05	3.53	0.22	-	0.38	0.26	0.35	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	7	2	<1	-	<1	<1	<1	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	1.6	0.7	0.6	-	0.7	0.7	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	50	23	26	-	18	27	11	mg/kg	1	A-T-024s
Chromium _D ^{M#}	23	23	33	-	28	36	16	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	131	495	10	-	11	11	10	mg/kg	1	A-T-024s
Mercury _D	0.38	0.27	<0.17	-	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	29	19	36	-	24	37	12	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	479	106	59	-	52	66	29	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	*	*	*	-	*	*	*			A-T-001
Arsenic (leachable) _A [#]	9	5	<1	-	2	3	2	µg/l	1	A-T-025w
Cadmium (leachable) _A [#]	<1	<1	<1	-	<1	<1	<1	µg/l	1	A-T-025w
Copper (leachable) _A [#]	48	46	2	-	10	32	10	µg/l	1	A-T-025w
Chromium (leachable) _A [#]	1	2	<1	-	<1	18	2	µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	mg/l	0.05	A-T-040w
Lead (leachable) _A [#]	51	422	<1	-	9	5	9	µg/l	1	A-T-025w
Mercury (leachable) _A [#]	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Nickel (leachable) _A [#]	13	12	<1	-	2	18	2	µg/l	1	A-T-025w
Selenium (leachable) _A [#]	<1	1	<1	-	<1	2	<1	µg/l	1	A-T-025w
Zinc (leachable) _A [#]	300	74	10	-	14	46	18	µg/l	1	A-T-025w

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Client Project Ref: 252332

Lab Sample ID	20/08021/29	20/08021/30	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/35	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP44	TP47	WS2	WS2	WS3	WS4	WS7			
Depth to Top	0.10	0.05	0.40	2.70	0.50	0.40	0.30			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	15-Sep-20	15-Sep-20	15-Sep-20	16-Sep-20	17-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	5AE	5A	5AE	5AE	4AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	NAD	NAD	NAD	-	NAD	NAD	NAD			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? ^D	N/A	N/A	N/A	-	N/A	N/A	N/A			A-T-045
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Tecnazene _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Trifluralin _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Simazine _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Atrazine _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Quintozene (PCNB) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorothalonil _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Triallate _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Heptachlor _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Aldrin _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Triadimefon _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Telodrin _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Isodrin _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Pendimethalin _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Heptachlor epoxide _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
trans-Chlordane (Gamma) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-DDE (2,4) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endosulphan I (Alpha) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
cis-Chlordane (Alpha) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-DDE (4,4) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Dieldrin _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-DDD (2,4) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endrin _A	-	<0.18	-	-	-	<0.18	-	mg/kg	0.01	A-T-056

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Lab Sample ID	20/08021/29	20/08021/30	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/35	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP44	TP47	WS2	WS2	WS3	WS4	WS7			
Depth to Top	0.10	0.05	0.40	2.70	0.50	0.40	0.30			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	15-Sep-20	15-Sep-20	15-Sep-20	16-Sep-20	17-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	5AE	5A	5AE	5AE	4AE			
Endosulphan II (Beta) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endrin Aldehyde _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endrin Ketone _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Permethrin I (cis) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Permethrin II (trans) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Dichlorvos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Mevinphos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Demeton-S _A	-	<0.50	-	-	-	<0.50	-	mg/kg	0.5	A-T-056
Demeton-O _A	-	<0.50	-	-	-	<0.50	-	mg/kg	0.5	A-T-056
Phorate _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Dimethoate _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Propetamphos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Disulfoton _A	-	<0.10	-	-	-	<0.10	-	mg/kg	0.1	A-T-056
Etrimphos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Methyl Parathion _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Fenitrothion _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Fensulphothion _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Fenthion _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Malathion _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorfenvinphos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Chlorpyrifos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Trichloronate _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Ethion _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/29	20/08021/30	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/35	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP44	TP47	WS2	WS2	WS3	WS4	WS7			
Depth to Top	0.10	0.05	0.40	2.70	0.50	0.40	0.30			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	15-Sep-20	15-Sep-20	15-Sep-20	16-Sep-20	17-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	5AE	5A	5AE	5AE	4AE			
Triazophos _A	-	<0.01	-	-	-	<0.01	-			
Sulprofos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Carbophenothion _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Phosalone _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Azinphos-methyl _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Azinphos-ethyl _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
Coumaphos _A	-	<0.01	-	-	-	<0.01	-	mg/kg	0.01	A-T-056
ONP (Organonitrogen Pesticides) \$\$										
Ametryn _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Atraton _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Atrazine _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Prometon _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Propazine _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Prometryn _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Simazine _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Simetryn _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Terbutylazine _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Terbutryn _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest
Secbumetona _A	-	<0.2	-	-	-	<0.2	-	mg/kg	0.2	Subcon Chemtest

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Lab Sample ID	20/08021/29	20/08021/30	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/35	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP44	TP47	WS2	WS2	WS3	WS4	WS7			
Depth to Top	0.10	0.05	0.40	2.70	0.50	0.40	0.30			
Depth To Bottom										
Date Sampled	02-Sep-20	02-Sep-20	15-Sep-20	15-Sep-20	15-Sep-20	16-Sep-20	17-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	5AE	5A	5AE	5AE	4AE			
PAH-16MS										
Acenaphthene _A ^{M#}	0.02	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.06	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.07	<0.02	<0.02	-	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.38	0.05	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.76	0.08	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.86	0.09	<0.05	-	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.76	0.08	<0.05	-	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.28	<0.07	<0.07	-	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.67	0.09	<0.06	-	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	0.12	<0.04	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.93	0.10	<0.08	-	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.02	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.95	0.09	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.44	0.04	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.83	0.10	<0.07	-	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	7.15	0.72	<0.08	-	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

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Lab Sample ID	20/08021/29	20/08021/30	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/35	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	TP44	TP47	WS2	WS2	WS3	WS4	WS7						
Depth to Top	0.10	0.05	0.40	2.70	0.50	0.40	0.30						
Depth To Bottom													
Date Sampled	02-Sep-20	02-Sep-20	15-Sep-20	15-Sep-20	15-Sep-20	16-Sep-20	17-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	4AE	4AE	5AE	5A	5AE	5AE	4AE						
TPH CWG													
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	2	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	36	5	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Total Aliphatics _A	38	5	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	<1	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	5	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	17	3	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	101	13	<1	-	<1	<1	1	mg/kg	1	A-T-055s			
Total Aromatics _A	124	15	<1	-	<1	<1	1	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	162	20	<1	-	<1	<1	1	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
MTBE _A [#]	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			

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Client Sample No										
Client Sample ID	WS7	WS9	WS11	WS12	WS13	WS14	WS21			
Depth to Top	1.80	0.20	0.40	2.00	0.20	0.20	0.20			
Depth To Bottom										
Date Sampled	17-Sep-20	18-Sep-20	14-Sep-20	18-Sep-20	18-Sep-20	17-Sep-20	16-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5A	4AE	5AE	5A	6AE	5AE	6AE			
% Stones >10mm _A	3.4	<0.1	12.9	<0.1	3.3	16.1	<0.1			
pH _D ^{M#}	-	6.36	6.41	-	6.86	7.14	6.19	pH	0.01	A-T-031s
pH BRE _D ^{M#}	8.26	-	-	8.49	-	-	-	pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	<10	-	-	<10	-	-	-	mg/l	10	A-T-026s
Total Organic Carbon _D ^{M#}	-	1.29	0.24	-	1.05	0.44	1.80	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	-	3	4	-	<1	<1	5	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	-	0.5	0.5	-	0.6	<0.5	0.7	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	-	19	13	-	17	13	20	mg/kg	1	A-T-024s
Chromium _D ^{M#}	-	20	23	-	19	22	23	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	-	38	12	-	25	12	44	mg/kg	1	A-T-024s
Mercury _D	-	<0.17	<0.17	-	0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	-	14	18	-	15	16	17	mg/kg	1	A-T-024s
Selenium _D ^{M#}	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	-	57	40	-	51	40	70	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	-	*	*	-	*	*	*			A-T-001
Arsenic (leachable) _A [#]	-	7	2	-	3	2	3	µg/l	1	A-T-025w
Cadmium (leachable) _A [#]	-	<1	<1	-	<1	<1	<1	µg/l	1	A-T-025w
Copper (leachable) _A [#]	-	38	28	-	21	11	46	µg/l	1	A-T-025w
Chromium (leachable) _A [#]	-	3	2	-	2	2	2	µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	mg/l	0.05	A-T-040w
Lead (leachable) _A [#]	-	43	10	-	22	6	32	µg/l	1	A-T-025w
Mercury (leachable) _A [#]	-	0.2	<0.1	-	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Nickel (leachable) _A [#]	-	7	2	-	5	1	13	µg/l	1	A-T-025w
Selenium (leachable) _A [#]	-	<1	<1	-	<1	<1	1	µg/l	1	A-T-025w
Zinc (leachable) _A [#]	-	52	16	-	39	10	50	µg/l	1	A-T-025w

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Lab Sample ID	20/08021/36	20/08021/37	20/08021/38	20/08021/39	20/08021/40	20/08021/41	20/08021/42	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS7	WS9	WS11	WS12	WS13	WS14	WS21			
Depth to Top	1.80	0.20	0.40	2.00	0.20	0.20	0.20			
Depth To Bottom										
Date Sampled	17-Sep-20	18-Sep-20	14-Sep-20	18-Sep-20	18-Sep-20	17-Sep-20	16-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5A	4AE	5AE	5A	6AE	5AE	6AE			
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	-	NAD	NAD	-	NAD	NAD	NAD			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? ^D	-	N/A	N/A	-	N/A	N/A	N/A			A-T-045
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Tecnazene _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Trifluralin _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Simazine _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Atrazine _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Quintozene (PCNB) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Chlorothalonil _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Triallate _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Heptachlor _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Aldrin _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Triadimefon _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Telodrin _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Isodrin _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Pendimethalin _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Heptachlor epoxide _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
trans-Chlordane (Gamma) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
o,p-DDE (2,4) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Endosulphan I (Alpha) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
cis-Chlordane (Alpha) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
p,p-DDE (4,4) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Dieldrin _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
o,p-DDD (2,4) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Endrin _A	-	<0.18	-	-	-	<0.18	<0.18	mg/kg	0.01	A-T-056

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Client Sample No										
Client Sample ID	WS7	WS9	WS11	WS12	WS13	WS14	WS21			
Depth to Top	1.80	0.20	0.40	2.00	0.20	0.20	0.20			
Depth To Bottom										
Date Sampled	17-Sep-20	18-Sep-20	14-Sep-20	18-Sep-20	18-Sep-20	17-Sep-20	16-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5A	4AE	5AE	5A	6AE	5AE	6AE			
Endosulphan II (Beta) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Endrin Aldehyde _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Endrin Ketone _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Permethrin I (cis) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Permethrin II (trans) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Dichlorvos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Mevinphos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Demeton-S _A	-	<0.50	-	-	-	<0.50	<0.50	mg/kg	0.5	A-T-056
Demeton-O _A	-	<0.50	-	-	-	<0.50	<0.50	mg/kg	0.5	A-T-056
Phorate _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Dimethoate _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Propetamphos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Disulfoton _A	-	<0.10	-	-	-	<0.10	<0.10	mg/kg	0.1	A-T-056
Etrimphos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Methyl Parathion _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Fenitrothion _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Fensulphothion _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Fenthion _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Malathion _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Chlorfenvinphos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Chlorpyrifos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Trichloronate _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Ethion _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/36	20/08021/37	20/08021/38	20/08021/39	20/08021/40	20/08021/41	20/08021/42	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS7	WS9	WS11	WS12	WS13	WS14	WS21			
Depth to Top	1.80	0.20	0.40	2.00	0.20	0.20	0.20			
Depth To Bottom										
Date Sampled	17-Sep-20	18-Sep-20	14-Sep-20	18-Sep-20	18-Sep-20	17-Sep-20	16-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5A	4AE	5AE	5A	6AE	5AE	6AE			
Triazophos _A	-	<0.01	-	-	-	<0.01	<0.01			
Sulprofos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Carbophenothion _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Phosalone _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Azinphos-methyl _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Azinphos-ethyl _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
Coumaphos _A	-	<0.01	-	-	-	<0.01	<0.01	mg/kg	0.01	A-T-056
ONP (Organonitrogen Pesticides) \$\$										
Ametryn _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Atraton _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Atrazine _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Prometon _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Propazine _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Prometryn _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Simazine _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Simetryn _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Terbutylazine _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Terbutryn _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest
Secbumetona _A	-	<0.2	-	-	-	<0.2	<0.2	mg/kg	0.2	Subcon Chemtest

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Client Project Ref: 252332

Lab Sample ID	20/08021/36	20/08021/37	20/08021/38	20/08021/39	20/08021/40	20/08021/41	20/08021/42	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS7	WS9	WS11	WS12	WS13	WS14	WS21			
Depth to Top	1.80	0.20	0.40	2.00	0.20	0.20	0.20			
Depth To Bottom										
Date Sampled	17-Sep-20	18-Sep-20	14-Sep-20	18-Sep-20	18-Sep-20	17-Sep-20	16-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5A	4AE	5AE	5A	6AE	5AE	6AE			
PAH-16MS										
Acenaphthene _A ^{M#}	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	-	<0.02	<0.02	-	<0.02	<0.02	<0.02	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	<0.04	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	<0.04	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	<0.07	<0.07	-	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	-	<0.06	<0.06	-	<0.06	<0.06	<0.06	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	<0.04	<0.04	-	<0.04	<0.04	<0.04	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	-	<0.08	<0.08	-	<0.08	<0.08	<0.08	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	<0.03	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	-	<0.03	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	-	<0.03	<0.03	-	<0.03	<0.03	<0.03	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	-	<0.07	<0.07	-	<0.07	<0.07	<0.07	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	-	<0.08	<0.08	-	<0.08	<0.08	<0.08	mg/kg	0.01	A-T-019s

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Lab Sample ID	20/08021/36	20/08021/37	20/08021/38	20/08021/39	20/08021/40	20/08021/41	20/08021/42	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	WS7	WS9	WS11	WS12	WS13	WS14	WS21						
Depth to Top	1.80	0.20	0.40	2.00	0.20	0.20	0.20						
Depth To Bottom													
Date Sampled	17-Sep-20	18-Sep-20	14-Sep-20	18-Sep-20	18-Sep-20	17-Sep-20	16-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	5A	4AE	5AE	5A	6AE	5AE	6AE						
TPH CWG													
Ali >C5-C6 _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	-	2	<1	-	<1	3	1	mg/kg	1	A-T-055s			
Total Aliphatics _A	-	2	<1	-	<1	3	1	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	-	<1	<1	-	<1	<1	<1	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	-	3	3	-	1	3	4	mg/kg	1	A-T-055s			
Total Aromatics _A	-	3	3	-	1	3	4	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	-	6	4	-	1	6	5	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			
MTBE _A [#]	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s			

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Lab Sample ID	20/08021/43	20/08021/44	20/08021/45	20/08021/46	20/08021/47	20/08021/48	20/08021/49	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS23	WS24	WS25	BH1	BH2	TP5	TP38			
Depth to Top	0.20	0.20	2.60	0.30	0.30	1.30	1.40			
Depth To Bottom										
Date Sampled	17-Sep-20	14-Sep-20	14-Sep-20	17-Sep-20	17-Sep-20	16-Sep-20	02-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	4AE	5A	4AE	6AE	1A	5A			
% Stones >10mm _A	<0.1	3.0	<0.1	0.7	1.6	2.5	2.3			
pH _D ^{M#}	6.96	7.00	-	6.68	6.50	-	-	pH	0.01	A-T-031s
pH BRE _D ^{M#}	-	-	8.28	-	-	8.20	8.26	pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _D ^{M#}	-	-	<10	-	-	<10	14	mg/l	10	A-T-026s
Total Organic Carbon _D ^{M#}	0.75	5.62	-	1.90	0.84	-	-	% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	<1	6	-	<1	<1	-	-	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	0.7	1.8	-	<0.5	<0.5	-	-	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	22	56	-	15	13	-	-	mg/kg	1	A-T-024s
Chromium _D ^{M#}	37	47	-	20	19	-	-	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	-	<1	<1	-	-	mg/kg	1	A-T-040s
Lead _D ^{M#}	21	144	-	56	27	-	-	mg/kg	1	A-T-024s
Mercury _D	<0.17	0.49	-	0.18	<0.17	-	-	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	28	31	-	18	15	-	-	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	-	<1	<1	-	-	mg/kg	1	A-T-024s
Zinc _D ^{M#}	61	729	-	62	50	-	-	mg/kg	5	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	*	*	-	*	*	-	-			A-T-001
Arsenic (leachable) _A [#]	1	13	-	<1	2	-	-	µg/l	1	A-T-025w
Cadmium (leachable) _A [#]	<1	<1	-	<1	<1	-	-	µg/l	1	A-T-025w
Copper (leachable) _A [#]	17	20	-	15	12	-	-	µg/l	1	A-T-025w
Chromium (leachable) _A [#]	2	<1	-	<1	<1	-	-	µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	<0.05	-	<0.05	<0.05	-	-	mg/l	0.05	A-T-040w
Lead (leachable) _A [#]	6	9	-	50	4	-	-	µg/l	1	A-T-025w
Mercury (leachable) _A [#]	<0.1	<0.1	-	<0.1	<0.1	-	-	µg/l	0.1	A-T-025w
Nickel (leachable) _A [#]	3	5	-	5	4	-	-	µg/l	1	A-T-025w
Selenium (leachable) _A [#]	<1	<1	-	<1	<1	-	-	µg/l	1	A-T-025w
Zinc (leachable) _A [#]	13	71	-	37	10	-	-	µg/l	1	A-T-025w

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Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/43	20/08021/44	20/08021/45	20/08021/46	20/08021/47	20/08021/48	20/08021/49	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS23	WS24	WS25	BH1	BH2	TP5	TP38			
Depth to Top	0.20	0.20	2.60	0.30	0.30	1.30	1.40			
Depth To Bottom										
Date Sampled	17-Sep-20	14-Sep-20	14-Sep-20	17-Sep-20	17-Sep-20	16-Sep-20	02-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	4AE	5A	4AE	6AE	1A	5A			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	-	NAD	NAD	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	-	N/A	N/A	-	-			A-T-045
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Tecnazene _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Trifluralin _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Simazine _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Atrazine _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Quintozene (PCNB) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Chlorothalonil _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Triallate _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Heptachlor _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Aldrin _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Triadimefon _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Telodrin _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Isodrin _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Pendimethalin _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Heptachlor epoxide _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
trans-Chlordane (Gamma) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-DDE (2,4) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endosulphan I (Alpha) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
cis-Chlordane (Alpha) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-DDE (4,4) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Dieldrin _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-DDD (2,4) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endrin _A	<0.18	-	-	-	-	-	-	mg/kg	0.01	A-T-056

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Client Project Ref: 252332

Lab Sample ID	20/08021/43	20/08021/44	20/08021/45	20/08021/46	20/08021/47	20/08021/48	20/08021/49	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS23	WS24	WS25	BH1	BH2	TP5	TP38			
Depth to Top	0.20	0.20	2.60	0.30	0.30	1.30	1.40			
Depth To Bottom										
Date Sampled	17-Sep-20	14-Sep-20	14-Sep-20	17-Sep-20	17-Sep-20	16-Sep-20	02-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	4AE	5A	4AE	6AE	1A	5A			
Endosulphan II (Beta) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endrin Aldehyde _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endrin Ketone _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Permethrin I (cis) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Permethrin II (trans) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Dichlorvos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Mevinphos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Demeton-S _A	<0.50	-	-	-	-	-	-	mg/kg	0.5	A-T-056
Demeton-O _A	<0.50	-	-	-	-	-	-	mg/kg	0.5	A-T-056
Phorate _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Dimethoate _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Propetamphos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Disulfoton _A	<0.10	-	-	-	-	-	-	mg/kg	0.1	A-T-056
Etrimphos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Methyl Parathion _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Fenitrothion _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Fensulphothion _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Fenthion _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Malathion _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Chlorfenvinphos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Chlorpyrifos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Trichloronate _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Ethion _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/43	20/08021/44	20/08021/45	20/08021/46	20/08021/47	20/08021/48	20/08021/49	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS23	WS24	WS25	BH1	BH2	TP5	TP38			
Depth to Top	0.20	0.20	2.60	0.30	0.30	1.30	1.40			
Depth To Bottom										
Date Sampled	17-Sep-20	14-Sep-20	14-Sep-20	17-Sep-20	17-Sep-20	16-Sep-20	02-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	4AE	5A	4AE	6AE	1A	5A			
Triazophos _A	<0.01	-	-	-	-	-	-			
Sulprofos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Carbophenothion _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Phosalone _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Azinphos-methyl _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Azinphos-ethyl _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
Coumaphos _A	<0.01	-	-	-	-	-	-	mg/kg	0.01	A-T-056
ONP (Organonitrogen Pesticides) \$\$										
Ametryn _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Atraton _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Atrazine _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Prometon _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Propazine _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Prometryn _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Simazine _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Simetryn _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Terbutylazine _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Terbutryn _A	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest
Secbumetona	<0.2	-	-	-	-	-	-	mg/kg	0.2	Subcon Chemtest

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/43	20/08021/44	20/08021/45	20/08021/46	20/08021/47	20/08021/48	20/08021/49	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS23	WS24	WS25	BH1	BH2	TP5	TP38			
Depth to Top	0.20	0.20	2.60	0.30	0.30	1.30	1.40			
Depth To Bottom										
Date Sampled	17-Sep-20	14-Sep-20	14-Sep-20	17-Sep-20	17-Sep-20	16-Sep-20	02-Sep-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	5AE	4AE	5A	4AE	6AE	1A	5A			
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	0.05	-	<0.02	<0.02	-	-	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	<0.04	0.22	-	<0.04	<0.04	-	-	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	<0.04	0.29	-	<0.04	<0.04	-	-	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	<0.05	0.35	-	<0.05	<0.05	-	-	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	<0.05	0.29	-	<0.05	<0.05	-	-	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	<0.07	0.11	-	<0.07	<0.07	-	-	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	<0.06	0.32	-	<0.06	<0.06	-	-	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	0.06	-	<0.04	<0.04	-	-	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	<0.08	0.47	-	<0.08	<0.08	-	-	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	<0.03	0.33	-	<0.03	<0.03	-	-	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	-	<0.03	<0.03	-	-	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	<0.03	0.19	-	<0.03	<0.03	-	-	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	<0.07	0.41	-	<0.07	<0.07	-	-	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	<0.08	3.10	-	<0.08	<0.08	-	-	mg/kg	0.01	A-T-019s

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/43	20/08021/44	20/08021/45	20/08021/46	20/08021/47	20/08021/48	20/08021/49	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	WS23	WS24	WS25	BH1	BH2	TP5	TP38						
Depth to Top	0.20	0.20	2.60	0.30	0.30	1.30	1.40						
Depth To Bottom													
Date Sampled	17-Sep-20	14-Sep-20	14-Sep-20	17-Sep-20	17-Sep-20	16-Sep-20	02-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	5AE	4AE	5A	4AE	6AE	1A	5A						
TPH CWG													
Ali >C5-C6 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
Ali >C6-C8 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
Ali >C8-C10 _A	<1	<1	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Ali >C10-C12 _A ^{M#}	<1	<1	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Ali >C12-C16 _A ^{M#}	<1	<1	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Ali >C16-C21 _A ^{M#}	<1	<1	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Ali >C21-C35 _A ^{M#}	<1	19	-	2	<1	-	-	mg/kg	1	A-T-055s			
Total Aliphatics _A	<1	19	-	2	<1	-	-	mg/kg	1	A-T-055s			
Aro >C5-C7 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
Aro >C7-C8 _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
Aro >C8-C10 _A	<1	1	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Aro >C10-C12 _A	<1	<1	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Aro >C12-C16 _A	<1	2	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Aro >C16-C21 _A ^{M#}	<1	6	-	<1	<1	-	-	mg/kg	1	A-T-055s			
Aro >C21-C35 _A ^{M#}	<1	40	-	7	4	-	-	mg/kg	1	A-T-055s			
Total Aromatics _A	<1	49	-	7	4	-	-	mg/kg	1	A-T-055s			
TPH (Ali & Aro >C5-C35) _A	<1	68	-	10	4	-	-	mg/kg	1	A-T-055s			
BTEX - Benzene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - Toluene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - m & p Xylene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
BTEX - o Xylene _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			
MTBE _A [#]	<0.01	<0.01	-	<0.01	<0.01	-	-	mg/kg	0.01	A-T-022s			

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/50	20/08021/51	20/08021/52	20/08021/53	20/08021/54	20/08021/55	20/08021/56	Units	Limit of Detection	Method ref			
Client Sample No													
Client Sample ID	WS1	WS6	WS9	WS11	WS15	WS19	WS21						
Depth to Top	0.50	1.70	1.90	1.70	1.50	0.80	1.30						
Depth To Bottom													
Date Sampled	16-Sep-20	15-Sep-20	18-Sep-20	14-Sep-20	18-Sep-20	18-Sep-20	16-Sep-20						
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES						
Sample Matrix Code	5AE	5AE	5A	4A	5AE	5AE	5AE						
% Stones >10mm _A	<0.1	3.6	2.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044			
pH BRE _b ^{M#}	7.09	8.12	7.49	6.91	6.40	7.48	7.65	pH	0.01	A-T-031s			
Sulphate BRE (water sol 2:1) _b ^{M#}	<10	<10	<10	<10	15	<10	33	mg/l	10	A-T-026s			

Envirolab Job Number: 20/08021

Client Project Name: Brown's Lane

Client Project Ref: 252332

Lab Sample ID	20/08021/57							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	WS25									
Depth to Top	1.60									
Depth To Bottom										
Date Sampled	14-Sep-20									
Sample Type	Soil - ES									
Sample Matrix Code	5A									
% Stones >10mm _A	0.6							% w/w	0.1	A-T-044
pH BRE ₀ ^{M#}	7.98							pH	0.01	A-T-031s
Sulphate BRE (water sol 2:1) _b ^{M#}	<10							mg/l	10	A-T-026s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: RSK Environment Ltd Coventry, Humber Road, Abbey Park, Coventry, UK, CV3 **Project No:** 20/08021
4AQ **Date Received:** 23/09/2020 (am)

Project: Brown's Lane **Cool Box Temperatures (°C):** 15.3, 15.3, 15.5, 15.1, 15.3

Clients Project No: 252332

Lab Sample ID	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/15
Client Sample No												
Client Sample ID/Depth	TP3 0.10m	TP6 0.20m	TP6 0.80m	TP7 0.10m	TP8 0.40m	TP15 0.30m	TP16 0.20m	TP17 0.10m	TP19 0.30m	TP22 0.30m	TP22 2.00m	TP25 0.25m
Date Sampled	14/09/20	04/09/20	04/09/20	04/09/20	14/09/20	03/09/20	14/09/20	15/09/20	03/09/20	03/09/20	03/09/20	04/09/20
Deviation Code												
F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Lab Sample ID	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27
Client Sample No												
Client Sample ID/Depth	TP26 1.80m	TP27 0.30m	TP30 0.10m	TP33 0.10m	TP34 0.50m	TP35 0.20m	TP37 0.10m	TP39 0.30m	TP40 0.30m	TP41 0.40m	TP42 0.30m	TP43 0.10m
Date Sampled	03/09/20	03/09/20	14/09/20	03/09/20	15/09/20	15/09/20	02/09/20	02/09/20	03/09/20	15/09/20	02/09/20	04/09/20
Deviation Code												
F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Lab Sample ID	20/08021/28	20/08021/29	20/08021/30	20/08021/31	20/08021/33	20/08021/38	20/08021/44	20/08021/49
Client Sample No								
Client Sample ID/Depth	TP43 1.00m	TP44 0.10m	TP47 0.05m	WS2 0.40m	WS3 0.50m	WS11 0.40m	WS24 0.20m	TP38 1.40m
Date Sampled	04/09/20	02/09/20	02/09/20	15/09/20	15/09/20	14/09/20	14/09/20	02/09/20
Deviation Code								
F	✓	✓	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	20/08021/2	20/08021/3	20/08021/4	20/08021/5	20/08021/6	20/08021/7	20/08021/8	20/08021/9	20/08021/10	20/08021/11	20/08021/12	20/08021/15
Client Sample No												

Client Sample ID/Depth	TP3 0.10m	TP6 0.20m	TP6 0.80m	TP7 0.10m	TP8 0.40m	TP15 0.30m	TP16 0.20m	TP17 0.10m	TP19 0.30m	TP22 0.30m	TP22 2.00m	TP25 0.25m
Date Sampled	14/09/20	04/09/20	04/09/20	04/09/20	14/09/20	03/09/20	14/09/20	15/09/20	03/09/20	03/09/20	03/09/20	04/09/20
VPHCWG	✓	✓		✓	✓	✓	✓	✓	✓		✓	
PAH-16MS	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓
Sulphate BRE (water sol 2:1)			✓						✓			
Chloride BRE, SO4 equiv. (water sol 2:1)			✓									
Nitrate BRE, SO4 equiv. (water sol 2:1)			✓									
ONP (Organonitrogen Pesticides) \$\$				✓					✓			✓

Lab Sample ID	20/08021/16	20/08021/17	20/08021/18	20/08021/19	20/08021/20	20/08021/21	20/08021/22	20/08021/23	20/08021/24	20/08021/25	20/08021/26	20/08021/27
Client Sample No												
Client Sample ID/Depth	TP26 1.80m	TP27 0.30m	TP30 0.10m	TP33 0.10m	TP34 0.50m	TP35 0.20m	TP37 0.10m	TP39 0.30m	TP40 0.30m	TP41 0.40m	TP42 0.30m	TP43 0.10m
Date Sampled	03/09/20	03/09/20	14/09/20	03/09/20	15/09/20	15/09/20	02/09/20	02/09/20	03/09/20	15/09/20	02/09/20	04/09/20
VPHCWG		✓	✓	✓	✓		✓	✓	✓	✓		✓
PAH-16MS		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Sulphate BRE (water sol 2:1)	✓											
Chloride BRE, SO4 equiv. (water sol 2:1)												
Nitrate BRE, SO4 equiv. (water sol 2:1)												
ONP (Organonitrogen Pesticides) \$\$		✓		✓							✓	
Total Organic Carbon							✓	✓				

Lab Sample ID	20/08021/28	20/08021/29	20/08021/30	20/08021/31	20/08021/33	20/08021/38	20/08021/44	20/08021/49
Client Sample No								
Client Sample ID/Depth	TP43 1.00m	TP44 0.10m	TP47 0.05m	WS2 0.40m	WS3 0.50m	WS11 0.40m	WS24 0.20m	TP38 1.40m
Date Sampled	04/09/20	02/09/20	02/09/20	15/09/20	15/09/20	14/09/20	14/09/20	02/09/20
VPHCWG		✓	✓	✓	✓	✓	✓	
PAH-16MS		✓	✓	✓	✓	✓	✓	
Sulphate BRE (water sol 2:1)	✓							✓
Chloride BRE, SO4 equiv. (water sol 2:1)								
Nitrate BRE, SO4 equiv. (water sol 2:1)								
ONP (Organonitrogen Pesticides) \$\$			✓					
Total Organic Carbon		✓	✓					

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/09084
Issue Number: 1
Date: 05 November, 2020

Client: RSK Environment Ltd Coventry
Humber Road, Abbey Park
Coventry
UK
CV3 4AQ

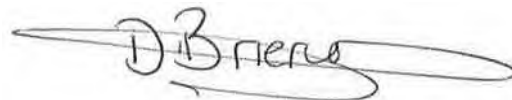
Project Manager: Emma Wild/Marc Dixon
Project Name: Browns Lane
Project Ref: 252332
Order No: N/A
Date Samples Received: 23/10/20
Date Instructions Received: 23/10/20
Date Analysis Completed: 05/11/20

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Danielle Brierley
Client Manager

Envirolab Job Number: 20/09084

Client Project Name: Browns Lane

Client Project Ref: 252332

Lab Sample ID	20/09084/1	20/09084/2	20/09084/3	20/09084/4	20/09084/5	20/09084/6	20/09084/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP40A	TP40B	TP40B	TP40C	TP40D	TP40D	TP40E			
Depth to Top	0.1	0.1	0.3	0.1	0.1	0.3	0.1			
Depth To Bottom										
Date Sampled	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	4AE	4AE	4AE	4AE	4AE			
% Stones >10mm _A	<0.1	<0.1	4.7	3.6	<0.1	11.6	<0.1	% w/w	0.1	A-T-044
Arsenic _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	14	15	12	19	15	11	15	mg/kg	1	A-T-024s
Chromium _D ^{M#}	28	28	23	22	23	20	29	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	46	45	32	41	38	22	34	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	16	18	15	15	17	15	18	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	66	78	64	64	70	47	70	mg/kg	5	A-T-024s

Envirolab Job Number: 20/09084

Client Project Name: Browns Lane

Client Project Ref: 252332

Lab Sample ID	20/09084/8	20/09084/9	20/09084/10	20/09084/11	20/09084/12	20/09084/13	20/09084/14	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP40F	TP40G	TP40G	TP40H	TP40I	TP40I	TP40J			
Depth to Top	0.1	0.1	0.3	0.1	0.1	0.25	0.1			
Depth To Bottom										
Date Sampled	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	6AE	4AE	4AE	4AE	4AE			
% Stones >10mm _A	<0.1	<0.1	5.0	<0.1	<0.1	9.9	<0.1			
Arsenic _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	15	16	11	17	16	12	12	mg/kg	1	A-T-024s
Chromium _D ^{M#}	35	26	17	23	26	19	21	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	37	39	19	45	39	20	48	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	17	15	14	15	18	15	15	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	76	69	41	69	71	47	55	mg/kg	5	A-T-024s

Envirolab Job Number: 20/09084

Client Project Name: Browns Lane

Client Project Ref: 252332

Lab Sample ID	20/09084/15	20/09084/16	20/09084/17	20/09084/18	20/09084/19	20/09084/20	20/09084/21	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP40J	TP40K	TP40L	TP40M	TP40M	TP40N	TP40O			
Depth to Top	0.3	0.1	0.1	0.1	0.3	0.1	0.1			
Depth To Bottom										
Date Sampled	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AE	4AE	4AE	4AE	4AE	4AE	4AE			
% Stones >10mm _A	5.1	<0.1	<0.1	<0.1	12.7	<0.1	0.8			
Arsenic _D ^{M#}	<1	<1	<1	<1	2	<1	<1	mg/kg	1	A-T-024s
Cadmium _D ^{M#}	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	11	16	11	15	12	14	12	mg/kg	1	A-T-024s
Chromium _D ^{M#}	19	28	22	25	19	23	19	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	25	57	31	35	19	31	26	mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	14	16	15	16	16	16	14	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	2	<1	<1	mg/kg	1	A-T-024s
Zinc _D ^{M#}	45	70	52	72	44	66	49	mg/kg	5	A-T-024s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 1155µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: RSK Environment Ltd Coventry, Humber Road, Abbey Park, Coventry, UK, CV3
4AQ
Project: Browns Lane
Clients Project No: 252332

Project No: 20/09084
Date Received: 23/10/2020 (am)
Cool Box Temperatures (°C): 10.4 & 13.0

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.



APPENDIX J LABORATORY CERTIFICATES FOR GEOTECHNICAL ANALYSIS


F.A.O.

Final Test Report - 2280280 / 1

Site: Browns Lane
 Job Number: 2280280
 Originating Client: Coventry City Council
 Originating Reference: 252332
 Date Sampled: Not Given
 Date Scheduled: 22/09/2020
 Date Testing Started: 28/09/2020
 Date Testing Finished: 02/10/2020

Previous Reports	Amendments	Date Issued

Amendments:

Authorised By: 
 Tim Robinson
 Quality Technician

Report Issue Date: 02/10/2020

Site: Browns Lane

Job Number: 2280280

Client: Coventry City Council

Page: 2

**Determination of Water Content, Liquid Limit and Plastic Limit
and Derivation of Plasticity and Liquidity Index**

Borehole / Trial Pit	Depth (m)	Sample	Natural / Sieved	Natural Water Content %	Sample Passing 425 µm Sieve		Liquid Limit %	Plastic Limit %	Plasticity Index %	Liquidity Index	Class	Description / Remarks
					Percentage %	Water Content %						
BH1	3.70	D6	Natural	15	100	15.0	32	16	16	-0.06	CL	Brown slightly gravelly, sandy CLAY
BH2	1.90	D12	Natural	17	94	18.0	33	18	15	-0.02	CL	Brown slightly gravelly CLAY
SA4	0.90	D90	Natural	16	97	16.0	43	18	25	-0.07	CI	Brown slightly gravelly, sandy CLAY
TP17	1.60	D114	Natural	17	96	17.0	35	16	19	0.08	CL/CI	Brown slightly gravelly, sandy CLAY
TP19	1.00	D117		14								Brown gravelly, sandy, organic CLAY
TP19	2.00	D118		15								Brown gravelly, sandy CLAY
TP20	1.40	D120	Natural	18	99	18.0	51	21	30	-0.10	CH	Brown slightly gravelly, sandy CLAY
TP25	1.40	D128	Natural	15	91	16.0	34	17	17	-0.06	CL	Brown slightly gravelly, sandy CLAY
TP27	1.50	D132		19								Brown gravelly, sandy CLAY
TP27	2.40	D133		11								Brown sandy GRAVEL
TP28	1.00	D134	Natural	20	94	21.0	55	24	31	-0.10	CH	Brown slightly gravelly, sandy CLAY
TP30	1.00	D139	Natural	23	100	23.0	62	25	37	-0.05	CH	Brown slightly gravelly CLAY
TP31	1.30	D141	Natural	14	100	14.0	43	16	27	-0.07	CI	Brown slightly gravelly, sandy CLAY
TP40	2.00	D159	Natural	15	90	16.0	35	16	19	0.01	CL/CI	Brown gravelly, sandy CLAY
TP41	1.00	D161	Natural	22	100	22.0	54	14	40	0.20	CH	Brown slightly gravelly, sandy CLAY
TP47	0.90	D172	Natural	15	89	16.0	38	18	20	-0.09	CI	Brown gravelly, sandy CLAY
WS10	1.50	D56	Natural	17	90	18.0	32	16	16	0.14	CL	Brown gravelly, sandy CLAY
WS13	1.40	D61	Natural	16	96	16.0	38	16	22	0.02	CI	Brown slightly gravelly, sandy, organic CLAY
WS16	1.30	D67		20								Brown gravelly, sandy CLAY
WS16	2.80	D68		15								Brown gravelly CLAY
WS18	1.40	D71		13								Brown gravelly, sandy CLAY
WS2	1.50	D35	Natural	16	99	16.0	35	17	18	-0.05	CL/CI	Brown slightly gravelly, sandy CLAY
WS20	1.40	D74	Natural	10	79	11.0	33	17	16	-0.35	CL	Brown gravelly, sandy CLAY
WS22	1.60	D78	Sieved	14	83	16.0	40	18	22	-0.10	CI	Brown gravelly, sandy CLAY
WS23	1.30	D79		16								Brown gravelly, sandy CLAY
WS23	2.90	D80		14								Brown gravelly, sandy CLAY
WS24	1.40	D82	Natural	15	80	18.0	28	15	13	0.19	CL	Brown gravelly, sandy CLAY
WS4	1.30	D40	Natural	23	98	23.0	47	20	27	0.12	CI	Brown slightly gravelly, sandy CLAY
WS9	1.00	D51	Natural	15	74	19.0	46	20	26	-0.06	CI	Brown gravelly, sandy CLAY

Method of Preparation: BS 1377 : Part 1 : 1990 : Clause 7 Preparation of disturbed samples for testing
 BS 1377 : Part 1 : 2016 : Clause 8.4.3 Preparation of samples for plasticity tests
 BS 1377 : Part 2 : 1990 : Clause 4.2 Preparation of samples for plastic limit tests

Method of Test: BS 1377 : Part 2 : 1990 : Clause 3.2 Determination of moisture content
 BS 1377 : Part 2 : 1990 : Clause 4.3 or 4.4 Determination of the liquid limit
 BS 1377 : Part 2 : 1990 : Clause 5.3 Determination of the plastic limit and plasticity index



Site: Browns Lane

Job Number: 2280280

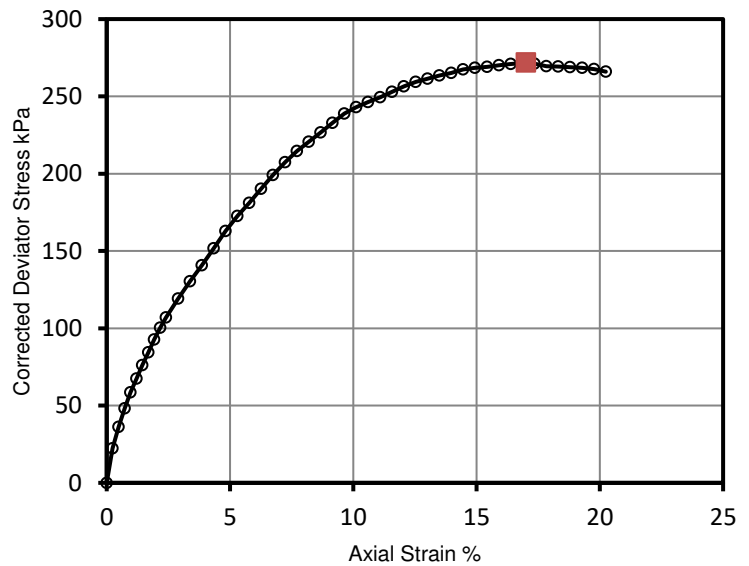
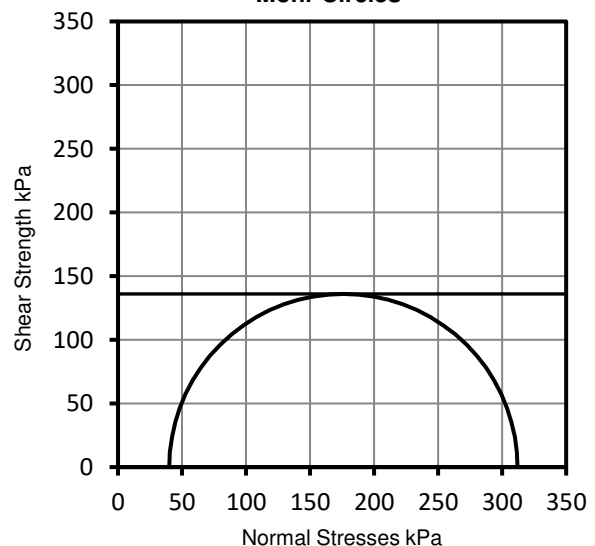
Client: Coventry City Council

Page: 3

Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen (Definitive Method)

Borehole / Trial Pit	Depth (m)	Sample	Description
BH2	2.20	U13	Brown gravelly CLAY

Initial Sample	Test Number	1
	Original Length (mm)	395.83
	Depth from Top (mm)	180.31
	Condition	Undisturbed
	Orientation	Vertical
Length (mm)		207.48
Diameter (mm)		100.62
Moisture Content (%)		14.90
Bulk Density (Mg/m ³)		2.19
Dry Density (Mg/m ³)		1.90
Membrane Thickness (mm)		0.31
Membrane Type		Latex
Rate of Strain (%/min)		1.9
Test Results	Cell Pressure (kPa)	40
	Axial Strain (%)	17
	Membrane Corr. (kPa)	1.03
	Deviator Stress, $(\sigma_1 - \sigma_3) f$ (kPa)	272
	Undrained Shear Strength, $c_u = \frac{1}{2}(\sigma_1 - \sigma_3) f$ (kPa)	136
	Mode of Failure	Plastic

Deviator Stress v Axial Strain

Mohr Circles


Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Method of Preparation: BS 1377:PT1:1990:8.3 Preparation of undisturbed samples for testing or BS 1377:PT1:1990:7.7.5.2 Preparation of disturbed samples for testing

Method of Test: BS 1377:PT2:1990:7.2 Determination of density by linear measurement.
BS 1377:PT7:1990:8.4 Determination of undrained shear strength in triaxial compression without measurement of pore pressure (Definitive method)

Site: Browns Lane

Job Number: 2280280

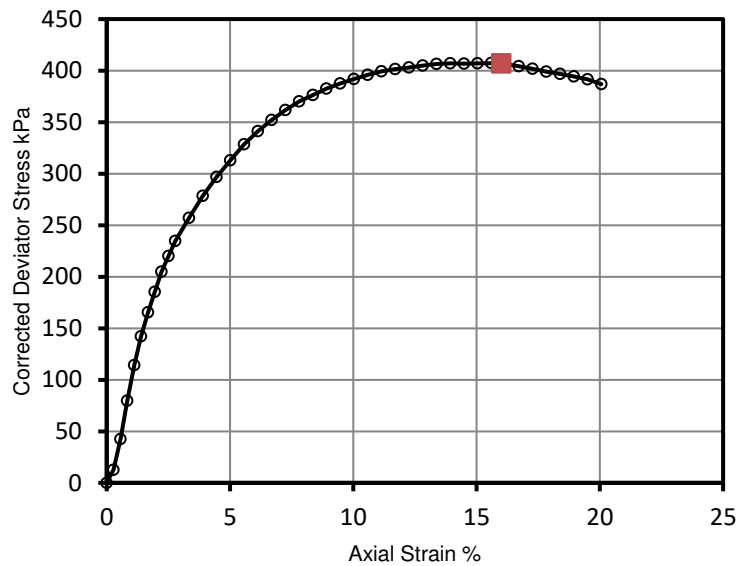
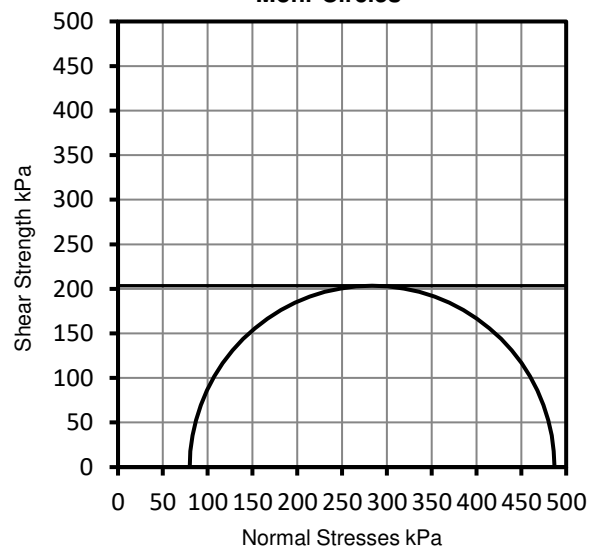
Client: Coventry City Council

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Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen (Definitive Method)

Borehole / Trial Pit	Depth (m)	Sample	Description
BH2	4.40	U17	Brown gravelly CLAY

Initial Sample	Test Number	1
	Original Length (mm)	191.60
	Depth from Top (mm)	11.94
	Condition	Undisturbed
	Orientation	Vertical
Length (mm)		179.46
Diameter (mm)		102.75
Moisture Content (%)		15.30
Bulk Density (Mg/m ³)		2.15
Dry Density (Mg/m ³)		1.87
Membrane Thickness (mm)		0.35
Membrane Type		Latex
Rate of Strain (%/min)		2.2
Test Results	Cell Pressure (kPa)	80
	Axial Strain (%)	16
	Membrane Corr. (kPa)	1.07
	Deviator Stress, $(\sigma_1 - \sigma_3) f$ (kPa)	407
	Undrained Shear Strength, $c_u = \frac{1}{2}(\sigma_1 - \sigma_3) f$ (kPa)	204
	Mode of Failure	Compound

Deviator Stress v Axial Strain

Mohr Circles


Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Method of Preparation: BS 1377:PT1:1990:8.3 Preparation of undisturbed samples for testing or BS 1377:PT1:1990:7.7.5.2 Preparation of disturbed samples for testing

Method of Test: BS 1377:PT2:1990:7.2 Determination of density by linear measurement.
BS 1377:PT7:1990:8.4 Determination of undrained shear strength in triaxial compression without measurement of pore pressure (Definitive method)

Site: Browns Lane

Job Number: 2280280

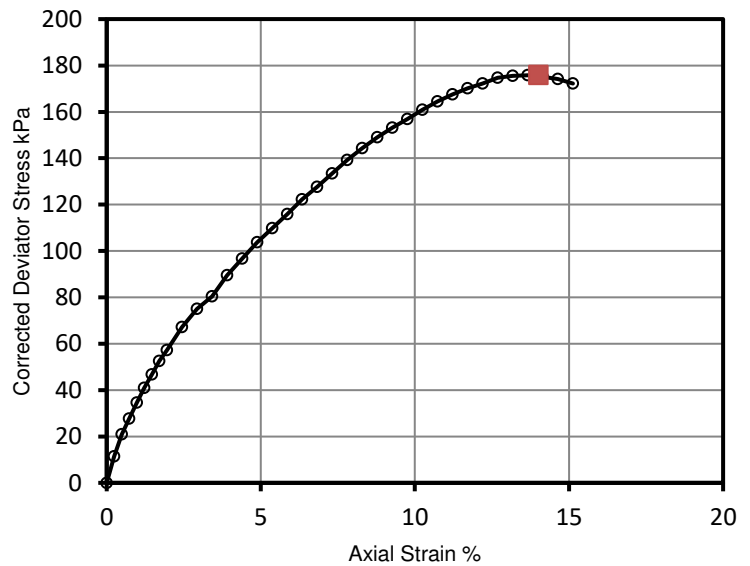
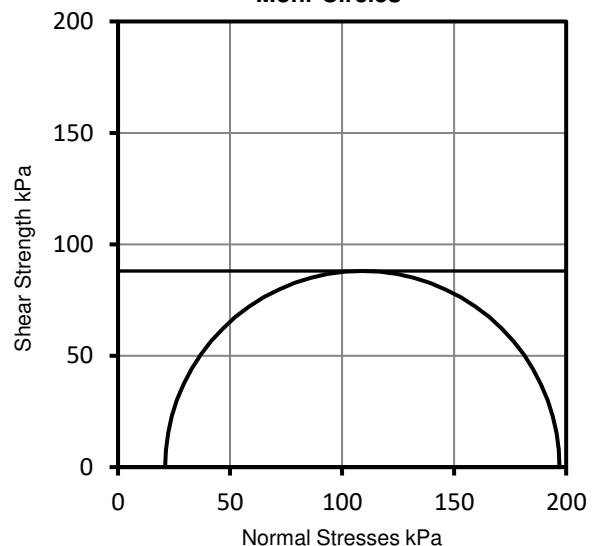
Client: Coventry City Council

Page: 5

Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen (Definitive Method)

Borehole / Trial Pit	Depth (m)	Sample	Description
BH3	1.20	U21	Brown gravelly, sandy CLAY

Initial Sample	Test Number	1
	Original Length (mm)	424.78
	Depth from Top (mm)	44.65
	Condition	Undisturbed
	Orientation	Vertical
Length (mm)		204.93
Diameter (mm)		101.19
Moisture Content (%)		18.80
Bulk Density (Mg/m ³)		2.07
Dry Density (Mg/m ³)		1.74
Membrane Thickness (mm)		0.33
Membrane Type		Latex
Rate of Strain (%/min)		2.0
Test Results	Cell Pressure (kPa)	21
	Axial Strain (%)	14
	Membrane Corr. (kPa)	0.92
	Deviator Stress, ($\sigma_1 - \sigma_3$)f (kPa)	176
	Undrained Shear Strength, $c_u = \frac{1}{2}(\sigma_1 - \sigma_3)f$ (kPa)	88
	Mode of Failure	Compound

Deviator Stress v Axial Strain

Mohr Circles


Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Method of Preparation: BS 1377:PT1:1990:8.3 Preparation of undisturbed samples for testing or BS 1377:PT1:1990:7.7.5.2 Preparation of disturbed samples for testing

Method of Test: BS 1377:PT2:1990:7.2 Determination of density by linear measurement.
BS 1377:PT7:1990:8.4 Determination of undrained shear strength in triaxial compression without measurement of pore pressure (Definitive method)

Site: Browns Lane

Job Number: 2280280

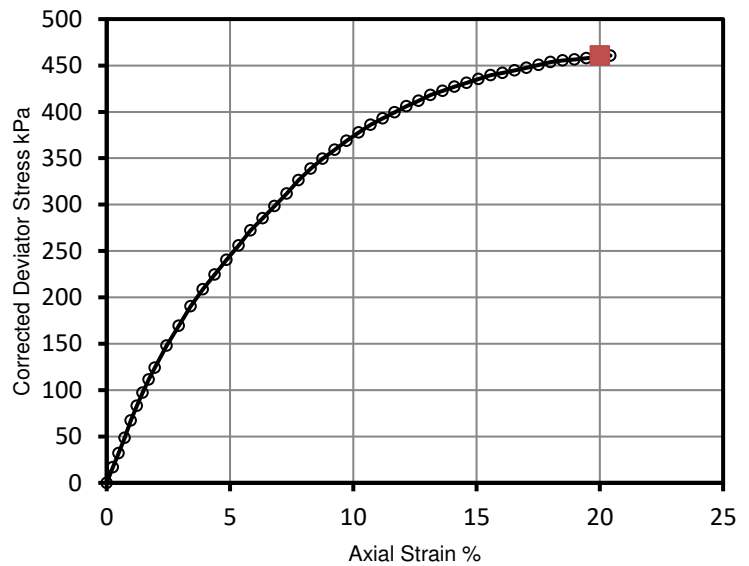
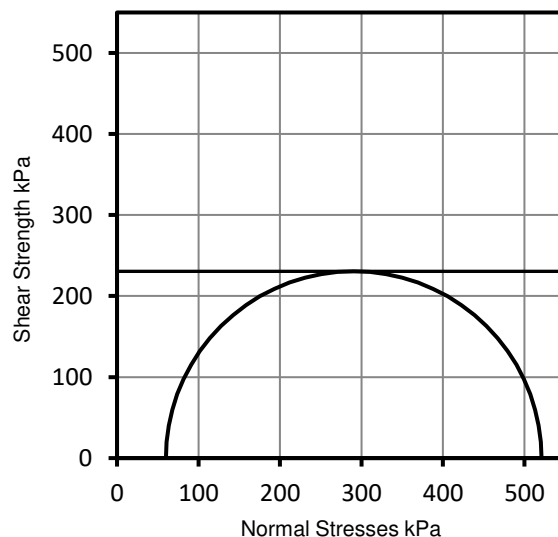
Client: Coventry City Council

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Unconsolidated Undrained Triaxial Compression Test without measurement of pore pressure - single specimen (Definitive Method)

Borehole / Trial Pit	Depth (m)	Sample	Description
BH3	3.00	U25	Brown gravelly, sandy CLAY

Initial Sample	Test Number	1
	Original Length (mm)	433.70
	Depth from Top (mm)	26.63
	Condition	Undisturbed
	Orientation	Vertical
Length (mm)		205.55
Diameter (mm)		101.73
Moisture Content (%)		17.00
Bulk Density (Mg/m ³)		2.09
Dry Density (Mg/m ³)		1.78
Membrane Thickness (mm)		0.55
Membrane Type		Latex
Rate of Strain (%/min)		1.9
Test Results	Cell Pressure (kPa)	60
	Axial Strain (%)	20
	Membrane Corr. (kPa)	2.12
	Deviator Stress, ($\sigma_1 - \sigma_3$)f (kPa)	461
	Undrained Shear Strength, $c_u = \frac{1}{2}(\sigma_1 - \sigma_3)f$ (kPa)	230
	Mode of Failure	Plastic

Deviator Stress v Axial Strain

Mohr Circles


Deviator stress corrected for area change and membrane effects

Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Method of Preparation: BS 1377:PT1:1990:8.3 Preparation of undisturbed samples for testing or BS 1377:PT1:1990:7.7.5.2 Preparation of disturbed samples for testing

Method of Test: BS 1377:PT2:1990:7.2 Determination of density by linear measurement.
BS 1377:PT7:1990:8.4 Determination of undrained shear strength in triaxial compression without measurement of pore pressure (Definitive method)



Final Test Report - 2280280 / 1

Site: Browns Lane
Job Number: 2280280
Originating Client: Coventry City Council

All opinions and interpretations contained within this report are outside of our Scope of Accreditation.

This test report shall not be reproduced, except in full and only with the written permission of Ian Farmer Associates Ltd.

Samples will be retained for 28 days from date of issue of the final test report before being disposed of, unless we receive written instruction to the contrary.

Report Issue Date: 02/10/2020



APPENDIX K GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH (RESIDENTIAL WITH HOME- GROWN PRODUCE)

Generic assessment criteria for human health: residential scenario with home-grown produce

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009⁽¹⁾. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009⁽²⁾. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014, the publication of Category 4 Screening Levels (C4SL)^(3,4), as part of the Defra-funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)⁽⁵⁾ used in the generation of SGVs.

C4SL were published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010⁽³⁾). Where a C4SL has been published, the RSK GAC duplicates the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and adopts them as GAC for these six substances.

For all other substances the C4SL exposure modifications, with the exception of the "top two" produce type approach taken in the C4SL, have been applied to the current RSK GAC. These include alterations to daily inhalation rates for residential and commercial scenarios, reducing soil adherence factors in children (age classes 1 to 12 only) for residential land use, reducing exposure frequency for dermal contact outdoors for residential land use, and updated produce type consumption rates (90th percentile) based on recent data from the National Diet and Nutrition Survey.

The RSK GAC have also been revised with updated toxicology published by LQM/CIEH in 2015⁽⁷⁾ or by the USEPA⁽¹⁴⁾, where a C4SL has not been published.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the Contaminated Land Exposure Assessment (CLEA) tool v1.071, supporting EA guidance^(5,8,9) and revised exposure scenarios published for the C4SL⁽³⁾. The SAC are also termed GAC.

Conceptual model

In accordance with SR3⁽⁵⁾, the residential with home-grown produce scenario considers risks to a female child between the ages of 0 and 6 years old as the highest risk scenario. In accordance with Box 3.1 of SR3⁽⁵⁾, the pathways considered for production of the SAC in the residential with home-grown produce scenario are

- direct soil and dust ingestion

- consumption of home-grown produce
- consumption of soil attached to home-grown produce
- dermal contact with soil and indoor dust
- inhalation of indoor and outdoor dust and vapours.

Figure 1 is a conceptual model illustrating these linkages.

In line with guidance in the EA SGV report for cadmium⁽¹⁾, the RSK GAC for cadmium has been derived based on estimates representative of lifetime exposure. Although young children are generally more likely to have higher exposures to soil contaminants, the renal toxicity of cadmium, and the derivation of the TDI_{oral} and TDI_{inh} , are based on considerations of the kidney burden accumulated over 50 years or so. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase⁽⁹⁾. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached⁽⁹⁾. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required⁽⁹⁾:

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over-predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits
- Where the vapour pathway contribution is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the predominant pathway (contributes greater than 90% of exposure) or the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances, the vapour pathway exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting the SAC as the modelled soil saturation limits. However, as stated within the CLEA handbook⁽⁹⁾, this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook⁽⁹⁾, which explains how to calculate an effective assessment criterion manually.

SR3⁽⁵⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are

at least a factor of ten higher than those likely to be measured on-site. RSK has therefore applied an empirical subsurface to indoor air correction factor of 10 into the CLEA model chemical database for all petroleum hydrocarbon fractions (including BTEX, trimethylbenzenes and the polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽¹⁰⁾, the EA TOX⁽¹⁾ reports, the C4SL SP1010 project report and associated appendices^(3,6), the 2015 LQM/CIEH report⁽⁷⁾ or the USEPA IRIS database⁽¹⁴⁾. Where a C4SL has been published, the RSK GAC have duplicated the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and has adopted them as GAC for these six substances. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene, barium and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report⁽¹¹⁾.

For TPH, aromatic hydrocarbons C₅–C₈ were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

Physical parameters

For the residential with home-grown produce scenario, the CLEA default building is a small, two-storey terrace house with a concrete ground-bearing slab. The house is assumed to have a 100m² private garden consisting of lawn and flowerbeds, incorporating a 20m² plot for growing fruit and vegetables consumed by the residents. SR3⁽⁵⁾ notes this residential building type to be the most conservative in terms of potential for vapour intrusion. The building parameters used in the production of the RSK GACs are the default CLEA v1.06 inputs presented in Table 3.3 of SR3⁽³⁾, with a dust loading factor detailed in Section 9.3 of SR3⁽⁵⁾. The parameters for a sandy loam soil type were used in line with Table 4.4 of SR3⁽⁵⁾. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for SOM, RSK has produced an additional set of GAC for SOM of 1% and 2.5% for all substances using the CLEA tool.

Summary of modifications to the default CLEA SR3⁽⁵⁾ input parameters for residential with home-grown produce land-use scenario

In summary, the RSK GAC were produced using the default input parameters for soil properties, the air dispersion model, building properties and the vapour model detailed in SR3⁽⁵⁾. Modifications to the default SR3⁽⁵⁾ exposure scenarios based on the C4SL exposure scenarios⁽³⁾ are presented in Tables 2 and 3 below.

The final selected GAC are presented by pathway in Table 4 and the combined GAC in Table 5.

Figure 1: Conceptual model for residential scenario with home-grown produce

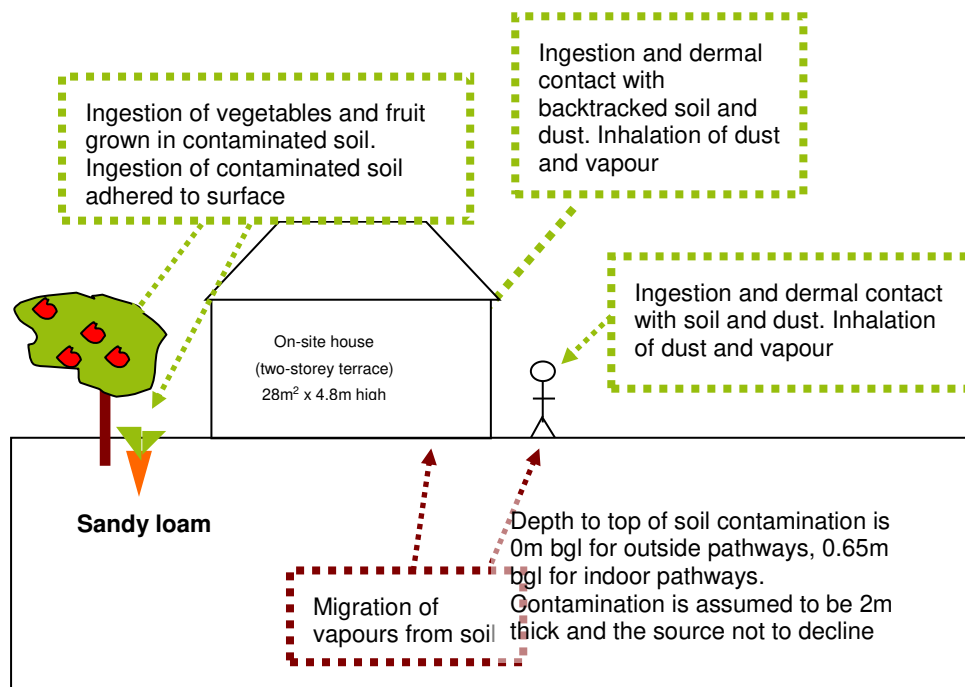


Table 1: Exposure assessment parameters for residential scenario with home-grown produce – inputs for CLEA model

Parameter	Value	Justification
Land use	Residential with homegrown produce	Chosen land use
Receptor	Female child age 1 to 6	Key generic assumption given in Box 3.1, SR3 ⁽⁵⁾
Building	Small terraced house	Key generic assumption given in Box 3.1, SR3. Small, two-storey terraced house chosen, as it is the most conservative residential building type in terms of protection from vapor intrusion (Section 3.4.6, SR3) ⁽⁵⁾
Soil type	Sandy Loam	Most common UK soil type (Section 4.3.1, from Table 3.1, SR3) ⁽⁵⁾
Start AC (age class)	1	Range of age classes corresponding to key generic assumption that the critical receptor is a young female child aged 0–6. From Box 3.1, SR3 ⁽⁵⁾
End AC (age class)	6	
SOM (%)	6	Representative of sandy loamy soil according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents' ⁽¹³⁾
	1	To provide SAC for sites where SOM <6% as often observed by RSK
	2.5	
pH	7	Model default

Table 2: Residential with home-grown produce – modified home-grown produce data

Name	Consumption rate 90 th percentile (g FW kg ⁻¹ BW day ⁻¹) by age class						Dry weight conversion factor (g DW g ⁻¹ FW)	Home-grown fraction (average)	Home-grown fraction (high end)	Soil loading factor (g g ⁻¹ DW)	Preparation correction factor
	1	2	3	4	5	6					
Green vegetables	7.12	5.87	5.87	5.87	4.53	4.53	0.096	0.05	0.33	1.00E-03	2.00E-01
Root vegetables	10.7	2.83	2.83	2.83	2.14	2.14	0.103	0.06	0.4	1.00E-03	1.00E+00
Tuber vegetables	16	6.6	6.6	6.6	4.95	4.95	0.21	0.02	0.13	1.00E-03	1.00E+00
Herbaceous fruit	1.83	3.39	3.39	3.39	2.24	2.24	0.058	0.06	0.4	1.00E-03	6.00E-01
Shrub fruit	2.23	0.46	0.46	0.46	0.19	0.19	0.166	0.09	0.6	1.00E-03	6.00E-01
Tree fruit	3.82	10.3	10.3	10.3	5.16	5.16	0.157	0.04	0.27	1.00E-03	6.00E-01
Justification	Table 3.4, SP1010 ⁽³⁾						Table 6.3, SR3 ⁽⁵⁾	Table 4.19, SR3 ⁽⁵⁾		Table 6.3, SR3 ⁽⁵⁾	

Table 3: Residential with home-grown produce – modified and use and receptor data

Parameter	Unit	Age class					
		1	2	3	4	5	6
EF (soil and dust ingestion)	day yr ⁻¹	180	365	365	365	365	365
EF (consumption of home-grown produce)	day yr ⁻¹	180	365	365	365	365	365
EF (skin contact, indoor)	day yr ⁻¹	180	365	365	365	365	365
EF (skin contact, outdoor)	day yr ⁻¹	170	170	170	170	170	170
EF (inhalation of dust and vapour, indoor)	day yr ⁻¹	365	365	365	365	365	365
EF (inhalation of dust and vapour, outdoor)	day yr ⁻¹	365	365	365	365	365	365
Justification	Table 3.5, SP1010 ⁽³⁾ ; Table 3.1, SR3 ⁽⁵⁾						
Soil to skin adherence factor (outdoor)	mg cm ⁻² day ⁻¹	0.1	0.1	0.1	0.1	0.1	0.1
Justification	Table 3.5, SP1010 ⁽³⁾						
Inhalation rate	m ³ day ⁻¹	5.4	8.0	8.9/f	10.1	10.1	10.1
Justification	Mean value USEPA, 2011 ⁽¹²⁾ ; Table 3.2, SP1010 ⁽³⁾						
<p>Notes: For cadmium, the exposure assessment for a residential land use is based on estimates representative of lifetime exposure AC1-18. This is because the TDI_{oral} and TDI_{inh} are based on considerations of the kidney burden accumulated over 50 years. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period. See the Environment Agency Science Report SC05002/ TOX 3⁽¹⁾, Science Report SC050021/Cadmium SGV⁽¹⁾ and the project report SP1010⁽³⁾ for more information.</p>							

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GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITH HOME-GROWN PRODUCE



Table 4
Human Health Generic Assessment Criteria by Pathway for Residential With Home-Grown Produce Scenario

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Metals													
Arsenic	(a,b)	3.71E+01	5.26E+02	NR	NR	3.71E+01	5.26E+02	NR	NR	3.71E+01	5.26E+02	NR	NR
Barium	(b)	1.34E+03	NR	NR	NR	1.34E+03	NR	NR	NR	1.34E+03	NR	NR	NR
Beryllium		1.13E+02	1.72E+00	NR	NR	1.13E+02	1.72E+00	NR	NR	1.13E+02	1.72E+00	NR	NR
Boron		3.00E+02	5.20E+06	NR	NR	3.00E+02	5.20E+06	NR	NR	3.00E+02	5.20E+06	NR	NR
Cadmium	(a)	2.30E+01	4.88E+02	2.21E+01	NR	2.30E+01	4.88E+02	2.21E+01	NR	2.30E+01	4.88E+02	2.21E+01	NR
Chromium (III) - trivalent	(c)	1.84E+04	9.07E+02	NR	NR	1.84E+04	9.07E+02	NR	NR	1.84E+04	9.07E+02	NR	NR
Chromium (VI) - hexavalent	(a,d)	5.85E+01	2.06E+01	NR	NR	5.85E+01	2.06E+01	NR	NR	5.85E+01	2.06E+01	NR	NR
Copper		2.72E+03	1.41E+04	2.47E+03	NR	2.72E+03	1.41E+04	2.47E+03	NR	2.72E+03	1.41E+04	2.47E+03	NR
Lead	(a)	2.01E+02	NR	NR	NR	2.01E+02	NR	NR	NR	2.01E+02	NR	NR	NR
Elemental Mercury (Hg ⁰)	(d)	NR	2.35E-01	NR	4.31E+00	NR	5.60E-01	NR	1.07E+01	NR	1.22E+00	NR	2.58E+01
Inorganic Mercury (Hg ²⁺)		3.95E+01	3.63E+03	3.91E+01	NR	3.95E+01	3.63E+03	3.91E+01	NR	3.95E+01	3.63E+03	3.91E+01	NR
Methyl Mercury (Hg ⁺)		1.26E+01	1.87E+01	7.52E+00	7.33E+01	1.26E+01	3.62E+01	9.34E+00	1.42E+02	1.26E+01	7.68E+01	1.08E+01	3.04E+02
Nickel	(d)	1.27E+02	1.81E+02	NR	NR	1.27E+02	1.81E+02	NR	NR	1.27E+02	1.81E+02	NR	NR
Selenium	(b)	2.58E+02	NR	NR	NR	2.58E+02	NR	NR	NR	2.58E+02	NR	NR	NR
Vanadium		4.13E+02	1.46E+03	NR	NR	4.13E+02	1.46E+03	NR	NR	4.13E+02	1.46E+03	NR	NR
Zinc	(b)	3.86E+03	3.63E+07	NR	NR	3.86E+03	3.63E+07	NR	NR	3.86E+03	3.63E+07	NR	NR
Cyanide (free)		1.37E+00	1.37E+04	1.37E+00	NR	1.37E+00	1.37E+04	1.37E+00	NR	1.37E+00	1.37E+04	1.37E+00	NR
Volatile Organic Compounds													
Benzene	(a)	2.62E-01	9.01E-01	2.03E-01	1.22E+03	5.39E-01	1.68E+00	4.08E-01	2.26E+03	1.16E+00	3.48E+00	8.72E-01	4.71E+03
Toluene		1.53E+02	9.08E+02	1.31E+02	8.69E+02	3.49E+02	2.00E+03	2.97E+02	1.92E+03	7.95E+02	4.55E+03	6.77E+02	4.36E+03
Ethylbenzene		1.10E+02	8.34E+01	4.74E+01	5.18E+02	2.61E+02	1.96E+02	1.12E+02	1.22E+03	6.00E+02	4.58E+02	2.60E+02	2.84E+03
Xylene - m		2.10E+02	8.25E+01	5.92E+01	6.25E+02	5.01E+02	1.95E+02	1.40E+02	1.47E+03	1.15E+03	4.56E+02	3.27E+02	3.46E+03
Xylene - o		1.92E+02	8.87E+01	6.07E+01	4.78E+02	4.56E+02	2.08E+02	1.43E+02	1.12E+03	1.05E+03	4.86E+02	3.32E+02	2.62E+03
Xylene - p		1.98E+02	7.93E+01	5.66E+01	5.76E+02	4.70E+02	1.86E+02	1.33E+02	1.35E+03	1.08E+03	4.36E+02	3.10E+02	3.17E+03
Total xylene		1.92E+02	7.93E+01	5.66E+01	6.25E+02	4.56E+02	1.86E+02	1.33E+02	1.47E+03	1.05E+03	4.36E+02	3.10E+02	3.46E+03
Methyl tertiary-Butyl ether (MTBE)		1.54E+02	1.04E+02	6.22E+01	2.04E+04	2.97E+02	1.69E+02	1.08E+02	3.31E+04	6.03E+02	3.21E+02	2.10E+02	6.27E+04
1,1,1,2-Tetrachloroethane		5.39E+00	1.54E+00	1.20E+00	2.60E+03	1.27E+01	3.56E+00	2.78E+00	6.02E+03	2.92E+01	8.29E+00	6.46E+00	1.40E+04
1,1,2,2-Tetrachloroethane		2.81E+00	3.92E+00	1.64E+00	2.67E+03	6.10E+00	8.04E+00	3.47E+00	5.46E+03	1.36E+01	1.76E+01	7.67E+00	1.20E+04
1,1,1-Trichloroethane		3.33E+02	9.01E+00	8.77E+00	1.43E+03	7.26E+02	1.84E+01	1.80E+01	2.92E+03	1.62E+03	4.04E+01	3.94E+01	6.39E+03
1,1,2-Trichloroethane		1.95E+00	1.25E+00	7.62E-01	4.03E+03	4.21E+00	2.55E+00	1.59E+00	8.21E+03	9.35E+00	5.59E+00	3.50E+00	1.80E+04
1,1-Dichloroethane		1.93E+01	3.29E-01	3.23E-01	2.23E+03	3.85E+01	5.82E-01	5.74E-01	3.94E+03	8.15E+01	1.17E+00	1.16E+00	7.94E+03
1,2-Dichloroethane		3.17E-02	9.20E-03	7.13E-03	3.41E+03	5.73E-02	1.33E-02	1.08E-02	4.91E+03	1.09E-01	2.28E-02	1.88E-02	8.43E+03
1,2,4-Trimethylbenzene		NR	1.76E+00	NR	4.74E+02	NR	4.26E+00	NR	1.16E+03	NR	9.72E+00	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
1,2-Dichloropropane		4.28E+00	3.40E-02	3.37E-02	1.19E+03	8.44E+00	6.00E-02	5.96E-02	2.11E+03	1.77E+01	1.21E-01	1.20E-01	4.24E+03
Carbon Tetrachloride (tetrachloromethane)		3.10E+00	2.58E-02	2.57E-02	1.52E+03	7.11E+00	5.65E-02	5.62E-02	3.32E+03	1.62E+01	1.28E-01	1.27E-01	7.54E+03
Chloroethane		NR	1.17E+01	NR	2.61E+03	NR	1.59E+01	NR	3.54E+03	NR	2.57E+01	NR	5.71E+03
Chloromethane		NR	1.17E-02	NR	1.91E+03	NR	1.38E-02	NR	2.24E+03	NR	1.85E-02	NR	2.99E+03
Cis 1,2 Dichloroethene		1.56E-01	NR	NR	3.94E+03	2.66E-01	NR	NR	6.61E+03	5.18E-01	NR	NR	1.29E+04
Dichloromethane		7.04E-01	3.05E+00	6.24E-01	7.27E+03	1.27E+00	4.06E+00	1.08E+00	9.68E+03	2.33E+00	6.42E+00	1.92E+00	1.53E+04
Tetrachloroethene		4.49E+00	1.79E-01	1.76E-01	4.24E+02	1.04E+01	4.02E-01	3.94E-01	9.51E+02	2.38E+01	9.21E-01	9.04E-01	2.18E+03
Trans 1,2 Dichloroethene		6.45E+00	2.76E-01	NR	3.42E+03	1.29E+01	4.99E-01	NR	6.17E+03	2.74E+01	1.02E+00	NR	1.26E+04
Trichloroethene		2.83E-01	1.72E-02	1.62E-02	1.54E+03	6.26E-01	3.59E-02	3.40E-02	3.22E+03	1.41E+00	7.98E-02	7.55E-02	7.14E+03
Vinyl Chloride (chloroethene)		3.82E-03	7.73E-04	6.43E-04	1.36E+03	6.87E-03	1.00E-03	8.73E-04	1.76E+03	1.25E-02	1.53E-03	1.36E-03	2.69E+03
Semi-Volatile Organic Compounds													
2-Chloronaphthalene		2.76E+02	5.39E+00	5.29E+00	1.14E+02	6.59E+02	1.33E+01	1.30E+01	2.80E+02	1.45E+03	3.17E+01	3.10E+01	6.69E+02
Acenaphthene		2.27E+02	4.86E+04	2.26E+02	5.70E+01	5.41E+02	1.18E+05	5.38E+02	1.41E+02	1.18E+03	2.68E+05	1.17E+03	3.38E+02
Acenaphthylene		1.85E+02	4.59E+04	1.84E+02	8.61E+01	4.42E+02	1.11E+05	4.40E+02	2.12E+02	9.78E+02	2.53E+05	9.74E+02	5.06E+02
Anthracene		2.43E+03	1.53E+05	2.39E+03	1.17E+00	5.53E+03	3.77E+05	5.45E+03	2.91E+00	1.10E+04	8.76E+05	1.09E+04	6.96E+00

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITH HOME-GROWN PRODUCE



Table 4

Human Health Generic Assessment Criteria by Pathway for Residential With Home-Grown Produce Scenario

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Benzo(a)anthracene		1.01E+01	2.47E+01	7.18E+00	1.71E+00	1.42E+01	4.37E+01	1.07E+01	4.28E+00	1.69E+01	6.26E+01	1.33E+01	1.03E+01
Benzo(a)pyrene	(a)	4.96E+00	3.51E+01	NR	9.11E-01	4.96E+00	3.77E+01	NR	2.28E+00	4.96E+00	3.89E+01	NR	5.46E+00
Benzo(b)fluoranthene		2.96E+00	1.93E+01	2.56E+00	1.22E+00	3.89E+00	2.13E+01	3.29E+00	3.04E+00	4.43E+00	2.22E+01	3.69E+00	7.29E+00
Benzo(g,h,i)perylene		3.77E+02	1.87E+03	3.14E+02	1.54E-02	4.09E+02	1.94E+03	3.38E+02	3.85E-02	4.23E+02	1.97E+03	3.48E+02	9.23E-02
Benzo(k)fluoranthene		8.92E+01	5.41E+02	7.66E+01	6.87E-01	1.10E+02	5.76E+02	9.22E+01	1.72E+00	1.21E+02	5.91E+02	1.00E+02	4.12E+00
Chrysene		1.66E+01	1.19E+02	1.46E+01	4.40E-01	2.54E+01	1.49E+02	2.17E+01	1.10E+00	3.19E+01	1.66E+02	2.67E+01	2.64E+00
Dibenzo(a,h)anthracene		2.90E-01	1.45E+00	2.41E-01	3.93E-03	3.43E-01	1.64E+00	2.84E-01	9.82E-03	3.69E-01	1.74E+00	3.04E-01	2.36E-02
Fluoranthene		2.87E+02	3.83E+04	2.85E+02	1.89E+01	5.63E+02	8.87E+04	5.60E+02	4.73E+01	9.00E+02	1.83E+05	8.96E+02	1.13E+02
Fluorene		1.77E+02	6.20E+03	1.72E+02	3.09E+01	4.19E+02	1.53E+04	4.07E+02	7.65E+01	8.98E+02	3.62E+04	8.77E+02	1.83E+02
Hexachloroethane		2.68E-01	NR	NR	8.17E+00	6.57E-01	NR	NR	2.01E+01	1.55E+00	NR	NR	4.81E+01
Indeno(1,2,3-cd)pyrene		3.09E+01	2.12E+02	2.70E+01	6.13E-02	4.22E+01	2.38E+02	3.59E+01	1.53E-01	4.92E+01	2.50E+02	4.11E+01	3.68E-01
Naphthalene		2.78E+01	2.33E+01	1.27E+01	7.64E+01	6.66E+01	5.58E+02	3.04E+01	1.83E+02	1.53E+02	1.31E+02	7.06E+01	4.32E+02
Phenanthrene		9.85E+01	7.17E+03	9.72E+01	3.60E+01	2.24E+02	1.76E+04	2.22E+02	8.96E+01	4.48E+02	4.07E+04	4.43E+02	2.14E+02
Pyrene		6.25E+02	8.79E+04	6.20E+02	2.20E+00	1.25E+03	2.04E+05	1.24E+03	5.49E+00	2.05E+03	4.23E+05	2.04E+03	1.32E+01
Phenol		1.60E+02	4.58E+02	1.20E+02	2.42E+04	2.96E+02	6.95E+02	2.09E+02	3.81E+04	5.86E+02	1.19E+03	3.93E+02	7.03E+04
Total Petroleum Hydrocarbons													
Aliphatic hydrocarbons EC ₅ -EC ₆		4.99E+03	4.24E+01	4.23E+01	3.04E+02	1.13E+04	7.79E+01	7.78E+01	5.58E+02	2.50E+04	1.61E+02	1.60E+02	1.15E+03
Aliphatic hydrocarbons >EC ₅ -EC ₆		1.49E+04	1.04E+02	1.03E+02	1.44E+02	3.43E+04	2.31E+02	2.31E+02	3.22E+02	7.11E+04	5.29E+02	5.28E+02	7.36E+02
Aliphatic hydrocarbons >EC ₇ -EC ₁₀		1.61E+03	2.68E+01	2.67E+01	7.77E+01	2.91E+03	6.55E+01	6.51E+01	1.90E+02	4.26E+03	1.56E+02	1.54E+02	4.51E+02
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂		4.57E+03	1.33E+02	1.32E+02	4.75E+01	5.51E+03	3.31E+02	3.26E+02	1.18E+02	5.98E+03	7.93E+02	7.65E+02	2.83E+02
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆		6.27E+03	1.11E+03	1.06E+03	2.37E+01	6.34E+03	2.78E+03	2.41E+03	5.91E+01	6.36E+03	6.67E+03	4.34E+03	1.42E+02
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	(b)	6.46E+04	NR	NR	8.48E+00	9.17E+04	NR	NR	2.12E+01	1.10E+05	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	6.46E+04	NR	NR	8.48E+00	9.17E+04	NR	NR	2.12E+01	1.10E+05	NR	NR	5.09E+01
Aromatic hydrocarbons >EC8-EC ₁₀		5.76E+01	4.74E+01	3.45E+01	6.13E+02	1.38E+02	1.16E+02	8.38E+01	1.50E+03	3.07E+02	2.77E+02	1.94E+02	3.58E+02
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂		8.29E+01	2.58E+02	7.52E+01	3.64E+02	1.96E+02	6.39E+02	1.79E+02	8.99E+02	4.25E+02	1.52E+03	3.91E+02	2.15E+03
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆		1.47E+02	2.85E+03	1.45E+02	1.69E+02	3.36E+02	7.07E+03	3.32E+02	4.19E+02	6.81E+02	1.68E+04	6.74E+02	1.00E+03
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	(b)	2.63E+02	NR	NR	5.37E+01	5.45E+02	NR	NR	1.34E+02	9.34E+02	NR	NR	3.21E+02
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	(b)	1.09E+03	NR	NR	4.83E+00	1.47E+03	NR	NR	1.21E+01	1.70E+03	NR	NR	2.90E+01
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	1.09E+03	NR	NR	4.83E+00	1.47E+03	NR	NR	1.21E+01	1.70E+03	NR	NR	2.90E+01

Notes:

EC - equivalent carbon. SAC - soil assessment criteria.

The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.

	Calculated SAC exceeds soil saturation limit and may significantly affect the interpretation of any exceedances as the contribution of the indoor and outdoor vapour pathway to total exposure is >10%.
	Calculated SAC exceeds soil saturation limit but the exceedance will not affect the SAC significantly as the contribution of the indoor and outdoor vapour pathway to total exposure is <10%.
	Calculated SAC does not exceed the soil saturation limit.

The SAC for organic compounds are dependant upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)

(a) SAC for arsenic, benzene, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.

(b) SAC for boron and selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal and inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV report. The Oral SAC should be adopted for zinc and benzo(a)pyrene.

(c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIH 2015 Section 6.8)

(d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.

(e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4-trimethylbenzene may be used.

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITH HOME-GROWN PRODUCE



Table 5
Human Health Generic Assessment Criteria for Residential with home-grown produce

Compound	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals			
Arsenic	37	37	37
Barium	1,300	1,300	1,300
Beryllium	1.7	1.7	1.7
Boron	300	300	300
Cadmium	22	22	22
Chromium (III) - trivalent	910	910	910
Chromium (VI) - hexavalent	21	21	21
Copper	2,500	2,500	2,500
Lead	200	200	200
Elemental Mercury (Hg ⁰)	0.2	0.6	1.2
Inorganic Mercury (Hg ²⁺)	39	39	39
Methyl Mercury (Hg ⁺)	10	10	10
Nickel	130	130	130
Selenium	258	258	258
Vanadium	410	410	410
Zinc	3,900	3,900	3,900
Cyanide (free)	1.4	1.4	1.4
Volatile Organic Compounds			
Benzene	0.20	0.41	0.87
Toluene	130	300	680
Ethylbenzene	50	110	260
Xylene - m	59	140	327
Xylene - o	61	143	332
Xylene - p	57	133	310
Total xylene	57	133	310
Methyl tertiary-Butyl ether (MTBE)	60	110	210
1,1,1,2-Tetrachloroethane	1.20	2.78	6.46
1,1,2,2-Tetrachloroethane	1.6	3.5	7.7
1,1,1-Trichloroethane	9	18	39
1,1,2-Trichloroethane	0.8	1.6	3.5
1,1-Dichloroethane	0.32	0.57	1.16
1,2-Dichloroethane	0.007	0.011	0.019
1,2,4-Trimethylbenzene	1.8	4.3	9.7
1,3,5-Trimethylbenzene	NR	NR	NR
1,2-Dichloropropane	0.034	0.060	0.120
Carbon Tetrachloride (tetrachloromethane)	0.026	0.056	0.127
Chloroethane	11.7	15.9	25.7
Chloromethane	0.012	0.014	0.019
Cis 1,2 Dichloroethene	0.16	0.27	0.52
Dichloromethane	0.62	1.08	1.92
Tetrachloroethene	0.2	0.4	0.9
Trans 1,2 Dichloroethene	0.28	0.50	1.02
Trichloroethene	0.02	0.03	0.08
Vinyl Chloride (chloroethene)	0.0006	0.0009	0.0014
Semi-Volatile Organic Compounds			
2-Chloronaphthalene	5	13	31
Acenaphthene	230	540	1,170
Acenaphthylene	180	440	970
Anthracene	2,400	5,500	10,900
Benzo(a)anthracene	7	11	13
Benzo(a)pyrene	5	5	5
Benzo(b)fluoranthene	2.6	3.3	3.7
Benzo(g,h,i)perylene	310	340	350
Benzo(k)fluoranthene	77	92	100
Chrysene	15	22	27
Dibenzo(a,h)anthracene	0.24	0.28	0.30
Fluoranthene	290	560	900
Fluorene	170	410	880
Hexachloroethane	0.27	0.66	1.55
Indeno(1,2,3-cd)pyrene	27	36	41
Naphthalene	13	30	71
Phenanthrene	100	220	440
Pyrene	620	1,240	2,040
Phenol	120	210	390
Total Petroleum Hydrocarbons			
Aliphatic hydrocarbons EC ₅ -EC ₆	42	78	160
Aliphatic hydrocarbons >EC ₆ -EC ₈	100	230	530
Aliphatic hydrocarbons >EC ₈ -EC ₁₀	27	65	154
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂	130 (48)	330 (118)	760 (283)
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆	1,100 (24)	2,400 (59)	4,300 (142)
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	65,000 (8)	92,000 (21)	110,000
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	65,000 (8)	92,000 (21)	110,000
Aromatic hydrocarbons >EC ₈ -EC ₁₀	30	80	190
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂	80	180	390
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆	140	330	670
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	260	540	930
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	1,100	1,500	1,700
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	1,100	1,500	1,700
Minerals			
Asbestos	Stage 1 test – No asbestos detected with ID; Stage 2 test - <0.001% dry weight (exceedance of either equates to an exceedance of the GAC) ¹		
Notes:			
* - Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data.			
NR - SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4-trimethylbenzene may be used			
EC - equivalent carbon. SAC - soil assessment criteria.			
¹ LOD for weight of asbestos per unit weight of soil calculated on a dry weight basis using PLM, handpicking and gravimetry.			
The SAC for organic compounds are dependent on Soil Organic Matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.			
SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway, section 10.1.1, SR3.			
(VALUE IN BRACKETS)			
RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CIH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the SAC with the corresponding solubility or vapour saturation limits given in brackets.			



APPENDIX L GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH (PUBLIC OPEN SPACE IN PROXIMITY TO RESIDENTIAL DWELLINGS)

Generic assessment criteria for human health: Public open space (near residential housing) scenario

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009⁽¹⁾. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009⁽²⁾. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014 the publication of Category 4 Screening Levels (C4SL)^(3,4), as part of the Defra-funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)⁽⁵⁾ used in the generation of SGVs. The publication of C4SL introduced two new land-use scenarios relating to public open spaces.

C4SL were published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010⁽³⁾). Where a C4SL has been published, the RSK GAC duplicates the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and adopts them as GAC for these six substances.

For all other substances the C4SL exposure modifications have been applied to the RSK GAC. The current RSK GAC also use updated toxicology published by LQM/CIEH in 2015⁽⁷⁾ or by the USEPA⁽¹⁴⁾, where a C4SL has not been published.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the Contaminated Land Exposure Assessment (CLEA) tool v1.06, supporting EA guidance^(5,8,9) and revised exposure scenarios published for the C4SL⁽³⁾.

Conceptual model

This GAC derivation considers POS_{Resi} to relate to public open space in close proximity to residential housing. This includes predominantly grassed areas adjacent to high-density housing such as a green surrounded by houses, in accordance with the C4SL POS_{Resi} land-use scenario⁽³⁾. This would also include smaller areas incorporated in newer developments.

The POS_{Resi} scenario considers risk to a child receptor (female) between the ages of >3 and <9 years old. In accordance with Section 3.6.3.3 of the SP1010 project report⁽³⁾, exposure assumptions are based on the adaptation of the CLEA residential land-use scenario without consumption of home-grown produce and vapour ingress to the building. The pathways considered for production of the SAC in the POS_{Resi} scenario are

- ingestion of soil and dust (outdoors and indoors respectively)

- dermal contact with soil (outdoors; and soil-derived dust indoors)
- inhalation of dust (outdoors and indoors)
- inhalation of vapours outdoors.

Figure 1 is a conceptual model illustrating these linkages.

In line with guidance in the EA SGV report for cadmium⁽¹⁾, the RSK GAC for cadmium has been derived based on estimates representative of lifetime exposure. Although young children are generally more likely to have higher exposures to soil contaminants, the renal toxicity of cadmium, and the derivation of the TDI_{oral} and TDI_{inh}, are based on considerations of the kidney burden accumulated over 50 years or so. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase⁽⁹⁾. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached⁽⁹⁾. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required⁽⁹⁾:

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over-predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits.
- Where the vapour pathway is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the predominant pathway (contributes greater than 90% of exposure) or the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible, as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances, the vapour pathway exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting the SAC as the modelled soil saturation limits. However, as stated within the CLEA handbook⁽⁹⁾, this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook⁽⁹⁾, which explains how to calculate an effective assessment criterion manually.

SR3⁽⁵⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are at least a factor of ten higher than those likely to be measured on site. RSK has therefore applied

an empirical subsurface correction factor of 10 into the CLEA chemical database for all petroleum hydrocarbons (including BTEX, trimethylbenzenes, and the polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽¹⁰⁾, the EA TOX⁽¹⁾ reports, the C4SL SP1010 project report and associated appendices^(3,6), the 2015 LQM/CIEH report⁽⁷⁾ or the USEPA IRIS database⁽¹⁴⁾. Where a C4SL has been published, the RSK GAC have duplicated the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and has adopted them as GAC for these six substances. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene, barium and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report⁽¹¹⁾.

For TPH, aromatic hydrocarbons C₅–C₈ were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

Physical parameters

For the POS_{Resi} scenario, project report SP1010⁽³⁾ considers the potential for soil to be tracked into nearby houses with the potential for ingestion and inhalation of dust within the house. The CLEA default building is a small, two-storey terrace house.

POS_{resi} is considered to be a predominantly grassed area of up to 500m² (0.05 ha) with up to 50% potentially being bare soil. The input parameters were based on the air dispersion model and the vapour model detailed in SR3⁽⁵⁾. Full details of the land use scenario are presented in Table 3.6 of project report SP1010⁽³⁾.

The parameters for a sandy loam soil type were used in line with SR3⁽⁵⁾. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for this parameter, RSK has produced an additional set of SAC for an SOM of 1% and 2.5%.

The SAC were produced using the input parameters in Table 1 below and Table 3.6 of project report SP1010⁽³⁾. The GAC by pathway are presented in Table 2 and the combined GAC presented in Table 3.

Figure 1: Conceptual model for CLEA public open space (residential) scenario

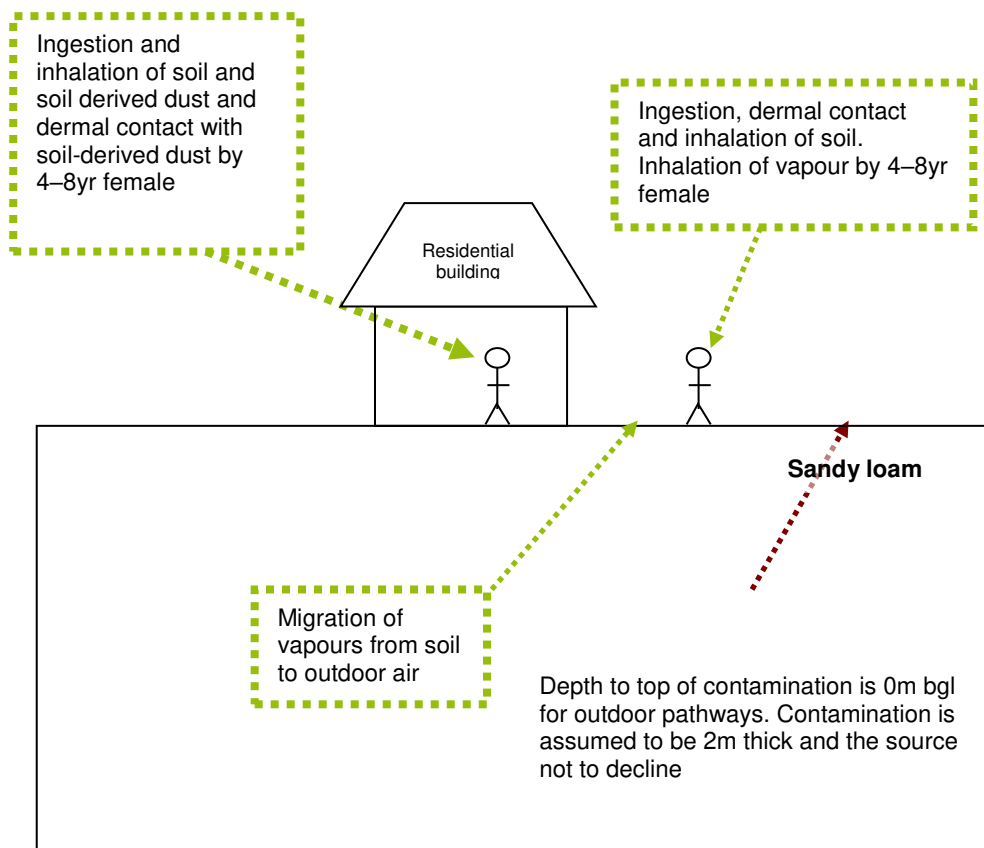


Table 1: Exposure assessment parameters for public open space (residential) scenario – inputs for CLEA model

Parameter	Value	Justification
Land use	Public open space (residential)	Chosen land use. Table 3.6 of SP1010 ⁽³⁾
Receptor	Female child	Taken as female child exposed over 6 years from 4 to 8 years, Table 3.6, SP1010 ⁽⁵⁾
Soil type	Sandy loam	Most common UK soil type (Section 4.3.1, Table 4.4, SR3 ⁽⁵⁾).
Start age class (AC)	4	Range of AC corresponding to key generic assumption that the critical receptor is a young female child aged 4–8 years (>3-<9). From Table 3.6, SP1010 ⁽⁵⁾
End AC	9	
SOM (%)	6	Representative of sandy loam according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents' ⁽¹³⁾
	1	To provide SAC for sites where SOM < 6% as often observed by RSK
	2.5	
pH	7	Model default

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GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - PUBLIC OPEN SPACE (IN CLOSE PROXIMITY TO RESIDENTIAL HOUSING)



Table 2

Human Health Generic Assessment Criteria for Public Open Space (in close proximity to residential housing)

Compound	Media	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Metals													
Arsenic	(a,b)	7.92E+01	5.31E+02	NR	NR	7.92E+01	5.31E+02	NR	NR	7.92E+01	5.31E+02	NR	NR
Barium	(b)	2.68E+03	NR	NR	NR	2.68E+03	NR	NR	NR	2.68E+03	NR	NR	NR
Beryllium		3.91E+02	2.19E+00	NR	NR	3.91E+02	2.19E+00	NR	NR	3.91E+02	2.19E+00	NR	NR
Boron		2.15E+04	6.62E+06	NR	NR	2.15E+04	6.62E+06	NR	NR	2.15E+04	6.62E+06	NR	NR
Cadmium	(a)	3.64E+02	4.94E+02	2.20E+02	NR	3.64E+02	4.94E+02	2.20E+02	NR	3.64E+02	4.94E+02	2.20E+02	NR
Chromium (III) - trivalent	(c)	3.98E+04	1.54E+03	NR	NR	3.98E+04	1.54E+03	NR	NR	3.98E+04	1.54E+03	NR	NR
Chromium (VI) - hexavalent	(a,d)	1.18E+02	2.08E+01	NR	NR	1.18E+02	2.08E+01	NR	NR	1.18E+02	2.08E+01	NR	NR
Copper		2.15E+04	1.95E+04	1.20E+04	NR	2.15E+04	1.95E+04	1.20E+04	NR	2.15E+04	1.95E+04	1.20E+04	NR
Lead	(a)	6.26E+02	NR	NR	NR	6.26E+02	NR	NR	NR	6.26E+02	NR	NR	NR
Elemental Mercury (Hg ⁰)	(d)	NR	1.57E+01	NR	4.31E+00	NR	1.58E+01	NR	1.07E+01	NR	1.58E+01	NR	2.58E+01
Inorganic Mercury (Hg ²⁺)		1.28E+02	4.62E+03	1.24E+02	NR	1.28E+02	4.62E+03	1.24E+02	NR	1.28E+02	4.62E+03	1.24E+02	NR
Methyl Mercury (Hg ⁴⁺)		3.97E+01	5.86E+03	3.94E+01	7.33E+01	3.97E+01	7.06E+03	3.95E+01	1.42E+02	3.97E+01	8.43E+03	3.95E+01	3.04E+02
Nickel	(d)	3.74E+02	2.31E+02	NR	NR	3.74E+02	2.31E+02	NR	NR	3.74E+02	2.31E+02	NR	NR
Selenium	(b)	1.14E+03	NR	NR	NR	1.14E+03	NR	NR	NR	1.14E+03	NR	NR	NR
Vanadium		2.47E+03	1.99E+03	NR	NR	2.47E+03	1.99E+03	NR	NR	2.47E+03	1.99E+03	NR	NR
Zinc	(b)	8.08E+04	4.62E+07	NR	NR	8.08E+04	4.62E+07	NR	NR	8.08E+04	4.62E+07	NR	NR
Cyanide (free)		8.02E+01	1.75E+04	8.01E+01	NR	8.02E+01	1.75E+04	8.01E+01	NR	8.02E+01	1.75E+04	8.01E+01	NR
Volatile Organic Compounds													
Benzene	(a)	1.44E+02	8.35E+03	1.41E+02	1.22E+03	1.44E+02	1.12E+04	1.42E+02	2.26E+03	1.44E+02	1.58E+04	1.43E+02	4.71E+03
Toluene		5.61E+04	6.86E+06	5.57E+04	8.69E+02	5.61E+04	9.88E+06	5.58E+04	1.92E+03	5.61E+04	1.42E+07	5.59E+04	4.36E+03
Ethylbenzene		2.52E+04	4.74E+05	2.39E+04	5.18E+02	2.52E+04	6.95E+05	2.43E+04	1.22E+03	2.52E+04	9.98E+05	2.46E+04	2.84E+03
Xylene - m		4.53E+04	4.14E+05	4.08E+04	6.25E+02	4.53E+04	6.05E+05	4.22E+04	1.47E+03	4.53E+04	8.62E+05	4.31E+04	3.46E+03
Xylene - o		4.53E+04	4.28E+05	4.10E+04	4.78E+02	4.53E+04	6.22E+05	4.23E+04	1.12E+03	4.53E+04	8.84E+05	4.32E+04	2.62E+03
Xylene - p		4.53E+04	4.07E+05	4.08E+04	5.76E+02	4.53E+04	5.93E+05	4.22E+04	1.35E+03	4.53E+04	8.46E+05	4.31E+04	3.17E+03
Total xylene		4.53E+04	4.07E+05	4.08E+04	6.25E+02	4.53E+04	5.93E+05	4.22E+04	1.47E+03	4.53E+04	8.46E+05	4.31E+04	3.46E+03
Methyl tertiary-Butyl ether (MTBE)		7.57E+04	5.10E+06	7.46E+04	2.04E+04	7.57E+04	6.33E+06	7.48E+04	3.31E+04	7.57E+04	8.36E+06	7.51E+04	6.27E+04
Trichloroethene		1.26E+02	1.94E+03	1.19E+02	1.54E+03	1.26E+02	2.76E+03	1.21E+02	3.22E+03	1.26E+02	3.98E+03	1.22E+02	7.14E+03
Tetrachloroethene		1.44E+03	1.97E+04	1.39E+03	4.24E+02	1.44E+03	2.88E+04	1.40E+03	9.51E+02	1.44E+03	4.21E+04	1.41E+03	2.18E+03
1,1,1-Trichloroethane		1.51E+05	1.46E+06	1.37E+05	1.43E+03	1.51E+05	2.06E+06	1.41E+05	2.92E+03	1.51E+05	2.98E+06	1.44E+05	6.39E+03
1,1,1,2-Tetrachloroethane		1.45E+03	5.44E+04	1.41E+03	2.60E+03	1.45E+03	7.78E+04	1.42E+03	6.02E+03	1.45E+03	1.09E+05	1.43E+03	1.40E+04
1,1,2,2-Tetrachloroethane		1.45E+03	8.07E+04	1.42E+03	2.67E+03	1.45E+03	1.07E+05	1.43E+03	5.46E+03	1.45E+03	1.42E+05	1.43E+03	1.20E+04
Carbon Tetrachloride		1.01E+03	4.08E+03	8.86E+02	1.52E+03	1.01E+03	5.95E+03	9.23E+02	3.32E+03	1.01E+03	8.76E+03	9.50E+02	7.54E+03
1,2-Dichloroethane		3.03E+01	6.29E+02	2.89E+01	3.41E+03	3.03E+01	7.45E+02	2.91E+01	4.91E+03	3.03E+01	9.52E+02	2.94E+01	8.43E+03
Vinyl Chloride		3.53E+00	2.95E+02	3.49E+00	1.36E+03	3.53E+00	3.35E+02	3.50E+00	1.76E+03	3.53E+00	4.13E+02	3.50E+00	2.69E+03
1,2,4-Trimethylbenzene		NR	2.48E+02	NR	4.74E+02	NR	2.49E+02	NR	1.16E+03	NR	2.50E+02	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
Semi-Volatile Organic Compounds													
Acenaphthene		1.49E+04	3.25E+06	1.48E+04	5.70E+01	1.49E+04	3.64E+06	1.48E+04	1.41E+02	1.49E+04	3.94E+06	1.48E+04	3.36E+02
Acenaphthylene		1.49E+04	3.21E+06	1.48E+04	8.61E+01	1.49E+04	3.61E+06	1.48E+04	2.12E+02	1.49E+04	3.91E+06	1.48E+04	5.06E+02
Anthracene		7.44E+04	1.94E+07	7.41E+04	1.17E+00	7.44E+04	2.06E+07	7.41E+04	2.91E+00	7.44E+04	2.14E+07	7.41E+04	6.96E+00
Benzo(a)anthracene		3.84E+01	1.11E+02	2.85E+01	1.71E+00	3.84E+01	1.13E+02	2.86E+01	4.28E+00	3.84E+01	1.14E+02	2.87E+01	1.03E+01
Benzo(a)pyrene	(a)	1.04E+01	3.89E+01	NR	9.11E-01	1.04E+01	3.93E+01	NR	2.28E+00	1.04E+01	3.95E+01	NR	5.46E+00
Benzo(b)fluoranthene		9.67E+00	2.83E+01	7.21E+00	1.22E+00	9.67E+00	2.86E+01	7.23E+00	3.04E+00	9.67E+00	2.89E+01	7.24E+00	7.29E+00
Benzo(g,h,i)perylene		8.53E+02	2.50E+03	6.36E+02	1.54E-02	8.53E+02	2.51E+03	6.37E+02	3.85E-02	8.53E+02	2.52E+03	6.37E+02	9.23E-02
Benzo(k)fluoranthene		2.55E+02	7.49E+02	1.90E+02	6.87E-01	2.55E+02	7.56E+02	1.91E+02	1.72E+00	2.55E+02	7.61E+02	1.91E+02	4.12E+00
Chrysene		7.68E+01	2.21E+02	5.70E+01	4.40E-01	7.68E+01	2.24E+02	5.72E+01	1.10E+00	7.68E+01	2.27E+02	5.74E+01	2.64E+00
Dibenzo(a,h)anthracene		7.68E-01	2.25E+00	5.73E-01	3.93E-03	7.68E-01	2.27E+00	5.74E-01	9.82E-03	7.68E-01	2.29E+00	5.75E-01	2.36E-02
Fluoranthene		3.10E+03	8.82E+05	3.08E+03	1.89E+01	3.10E+03	9.10E+05	3.09E+03	4.73E+01	3.10E+03	9.27E+05	3.09E+03	1.13E+02
Fluorene		9.91E+03	2.34E+06	9.87E+03	3.09E+01	9.91E+03	2.57E+06	9.87E+03	7.65E+01	9.91E+03	2.73E+06	9.87E+03	1.83E+02
Indeno(1,2,3-cd)pyrene		1.10E+02	3.19E+02	8.17E+01	6.13E-02	1.10E+02	3.24E+02	8.20E+01	1.53E-01	1.10E+02	3.26E+02	8.22E+01	3.68E-01
Naphthalene		4.89E+03	1.93E+04	3.90E+03	7.64E-01	4.89E+03	2.53E+04	4.10E+03	1.83E+02	4.89E+03	3.16E+04	4.24E+03	4.32E+02
Phenanthrene		3.08E+03	8.12E+05	3.07E+03	3.60E+01	3.08E+03	8.61E+05	3.07E+03	8.96E+01	3.08E+03	8.94E+05	3.07E+03	2.14E+02

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - PUBLIC OPEN SPACE (IN CLOSE PROXIMITY TO RESIDENTIAL HOUSING)



Table 2

Human Health Generic Assessment Criteria for Public Open Space (in close proximity to residential housing)

Compound	Soil Sat. (%)	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Pyrene		7.43E+03	2.11E+06	7.41E+03	2.20E+00	7.43E+03	2.18E+06	7.41E+03	5.49E+00	7.43E+03	2.22E+06	7.41E+03	1.32E+01
Phenol		1.31E+05	1.11E+04	1.02E+04	2.42E+04	1.31E+05	1.12E+04	1.03E+04	3.81E+04	1.31E+05	1.12E+04	1.03E+04	7.03E+04
Total Petroleum Hydrocarbons													
Aliphatic hydrocarbons EC ₆ -EC ₆		6.31E+05	2.03E+06	5.75E+05	3.04E+02	6.31E+05	2.74E+06	5.91E+05	5.58E+02	6.31E+05	3.92E+06	6.04E+05	1.15E+03
Aliphatic hydrocarbons >EC ₆ -EC ₈		6.31E+05	3.16E+06	5.97E+05	1.44E+02	6.31E+05	4.68E+06	6.09E+05	3.22E+02	6.31E+05	6.99E+06	6.16E+05	7.36E+02
Aliphatic hydrocarbons >EC ₈ -EC ₁₀		1.26E+04	3.80E+05	1.25E+04	7.77E+01	1.26E+04	5.83E+05	1.26E+04	1.90E+02	1.26E+04	8.74E+05	1.26E+04	4.51E+02
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂		1.26E+04	8.12E+05	1.26E+04	4.75E+01	1.26E+04	1.23E+06	1.26E+04	1.18E+02	1.26E+04	1.80E+06	1.26E+04	2.83E+02
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆		1.26E+04	2.07E+06	1.26E+04	2.37E+01	1.26E+04	2.95E+06	1.26E+04	5.91E+01	1.26E+04	3.99E+06	1.26E+04	1.42E+02
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	(b)	2.51E+05	NR	NR	8.48E+00	2.51E+05	NR	NR	2.12E+01	2.51E+05	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	2.51E+05	NR	NR	8.48E+00	2.51E+05	NR	NR	2.12E+01	2.51E+05	NR	NR	5.09E+01
Aromatic hydrocarbons >EC ₆ -EC ₁₀		5.05E+03	2.16E+05	5.02E+03	6.13E+02	5.05E+03	3.21E+05	5.03E+03	1.50E+03	5.05E+03	4.60E+05	5.04E+03	3.58E+03
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂		5.05E+03	4.48E+05	5.04E+03	3.64E+02	5.05E+03	6.34E+05	5.04E+03	8.99E+02	5.05E+03	8.52E+05	5.04E+03	2.15E+03
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆		5.05E+03	1.02E+06	5.05E+03	1.69E+02	5.05E+03	1.29E+06	5.05E+03	4.19E+02	5.05E+03	1.52E+06	5.05E+03	1.00E+03
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	(b)	3.77E+03	NR	NR	5.37E+01	3.77E+03	NR	NR	1.34E+02	3.77E+03	NR	NR	3.21E+02
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	(b)	3.77E+03	NR	NR	4.83E+00	3.77E+03	NR	NR	1.21E+01	3.77E+03	NR	NR	2.90E+01
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	3.77E+03	NR	NR	4.83E+00	3.77E+03	NR	NR	1.21E+01	3.77E+03	NR	NR	2.90E+01

Notes:

Public open space (resi) and (park) GAC are based on the exposure parameters detailed within SP1010 "Development of Category 4 Screening Levels for Assessment of Land affected by Contamination", Final, 20th December 2013

EC - equivalent carbon. GrAC - groundwater assessment criteria. SAC - soil assessment criteria.

The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.

Calculated SAC exceeds soil saturation limit and may significantly affect the interpretation of any exceedances as the contribution of the indoor and outdoor vapour pathway to total exposure is >10%.

Calculated SAC exceeds soil saturation limit but the exceedance will not affect the SAC significantly as the contribution of the indoor and outdoor vapour pathway to total exposure is <10%.

Calculated SAC does not exceed the soil saturation limit.

The SAC for organic compounds are dependant upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)

(a) SAC for arsenic, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.

(b) SAC for barium and selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal and inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV.

(c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIH 2015 Section 6.8)

(d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.

(e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used.

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - PUBLIC OPEN SPACE (IN CLOSE PROXIMITY TO RESIDENTIAL HOUSING)



Table 3
Human Health Generic Assessment Criteria for Public Open Space (in close proximity to residential housing)

Compound	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals			
Arsenic	79	79	79
Barium	2,680	2,680	2,680
Beryllium	2.2	2.2	2.2
Boron	21,500	21,500	21,500
Cadmium	220	220	220
Chromium (III) - trivalent	1,540	1,540	1,540
Chromium (VI) - hexavalent	21	21	21
Copper	12,000	12,000	12,000
Lead	630	630	630
Elemental Mercury (Hg ⁰)	16	16	16
Inorganic Mercury (Hg ²⁺)	120	120	120
Methyl Mercury (Hg ⁺)	39	39	40
Nickel	230	230	230
Selenium	1,100	1,100	1,100
Vanadium	1,990	1,990	1,990
Zinc	81,000	81,000	81,000
Cyanide (free)	80	80	80
Volatile Organic Compounds			
Benzene	140	140	140
Toluene	55,700	55,800	55,900
Ethylbenzene	23,900	24,300	24,600
Xylene - m	40,800	42,200	43,100
Xylene - o	41,000	42,300	43,200
Xylene - p	40,800	42,200	43,100
Total xylene	40,800	42,200	43,100
Methyl tertiary-Butyl ether (MTBE)	74,600	74,800	75,100
Trichloroethene	120	120	120
Tetrachloroethene	1,400	1,400	1,400
1,1,1-Trichloroethane	140,000	140,000	140,000
1,1,1,2-Tetrachloroethane	1,400	1,400	1,400
1,1,2,2-Tetrachloroethane	1,400	1,400	1,400
Carbon Tetrachloride	886	923	950
1,2-Dichloroethane	29	29	29
Vinyl Chloride	3.5	3.5	3.5
1,2,4-Trimethylbenzene	250	250	250
1,3,5-Trimethylbenzene	NR	NR	NR
Semi-Volatile Organic Compounds			
Acenaphthene	14,800	14,800	14,800
Acenaphthylene	14,800	14,800	14,800
Anthracene	74,100	74,100	74,100
Benzo(a)anthracene	29	29	29
Benzo(a)pyrene	10	10	10
Benzo(b)fluoranthene	7	7	7
Benzo(g,h,i)perylene	640	640	640
Benzo(k)fluoranthene	190	191	191
Chrysene	57	57	57
Dibenzo(a,h)anthracene	0.57	0.57	0.58
Fluoranthene	3,100	3,100	3,100
Fluorene	9,900	9,900	9,900
Indeno(1,2,3-cd)pyrene	82	82	82
Naphthalene	4,900	4,900	4,900
Phenanthrene	3,100	3,100	3,100
Pyrene	7,400	7,400	7,400
Phenol	440*	690*	1,300*
Total Petroleum Hydrocarbons			
Aliphatic hydrocarbons EC ₅ -EC ₆	570,000 (304)	590,000	600,000
Aliphatic hydrocarbons >EC ₆ -EC ₈	600,000	610,000	620,000
Aliphatic hydrocarbons >EC ₈ -EC ₁₀	13,000	13,000	13,000
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂	13,000	13,000	13,000
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆	13,000	13,000	13,000
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	250,000	250,000	250,000
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	250,000	250,000	250,000
Aromatic hydrocarbons >EC ₈ -EC ₁₀	5,000	5,000	5,000
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂	5,000	5,000	5,000
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆	5,000	5,000	5,000
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	3,800	3,800	3,800
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	3,800	3,800	3,800
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	3,800	3,800	3,800
Minerals			
Asbestos	Stage 1 test – No asbestos detected with ID; Stage 2 test - <0.001% dry weight (exceedance of either equates to an exceedance of the GAC) ¹		
Notes:			
* Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data.			
NR - SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used			
EC - equivalent carbon. GRAC - groundwater assessment criteria. SAC - soil assessment criteria.			
* The GAC for Phenol is based on a threshold which is protective of direct contact (SC050021/Phenol SGV report)			
Public open space (res) and (park) GAC are based on the exposure parameters detailed within SP1010 "Development of Category 4 Screening Levels for Assessment of Land affected by Contamination", Final, 20th December 2013			
The SAC for organic compounds are dependent on Soil Organic Matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.			
SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway, section 10.1.1, SR3.			
(VALUE IN BRACKETS)		The SAC has been set as the model calculated SAC with the saturation limit shown in brackets.	



APPENDIX M

GENERIC ASSESSMENT CRITERIA FOR POTABLE WATER SUPPLY PIPES

A range of pipe materials is available and careful selection, design and installation is required to ensure that water supply pipes are satisfactorily installed and meet the requirements of the Water Supply (Water Fittings) Regulations 1999 in England and Wales, the Byelaws 2000 in Scotland and the Northern Ireland Water Regulations. The regulations include a requirement to use only suitable materials when laying water pipes and laying water pipes without protection is not permitted at contaminated sites. The water supply company has a statutory duty to enforce the regulations.

Contaminants in the ground can pose a risk to human health by permeating potable water supply pipes. To fulfil their statutory obligation, UK water supply companies require robust evidence from developers to demonstrate either that the ground in which new plastic supply pipes will be laid is free from specific contaminants, or that the proposed remedial strategy will mitigate any existing risk. If these requirements cannot be demonstrated to the satisfaction of the relevant water company, it becomes necessary to specify an alternative pipe material on the whole development or in specific zones.

In 2010, UK Water Industry Research (UKWIR) published *Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites* (Report Ref. No. 10/WM/03/21). This report reviewed previously published industry guidelines and threshold concentrations adopted by individual water supply companies.

The focus of the UKWIR research project was to develop clear and concise procedures, which provide consistency in the pipe selection decision process. It was intended to provide guidance that can be used to ensure compliance with current regulations and to prevent water supply pipe failing prematurely due to the presence of contamination.

The report concluded that in most circumstances only organic contaminants pose a potential risk to plastic pipe materials and Table 3.1 of the report provides threshold concentrations for polyethylene (PE) and polyvinyl chloride (PVC) pipes for the organic contaminants of concern. The report also makes recommendations for the procedures to be adopted in the design of site investigations and sampling strategies, and the assessment of data, to ensure that the ground through which water supply pipes will be laid is adequately characterised.

Risks to water supply pipes have therefore been assessed against the threshold concentrations for PE and PVC pipe specified in Table 3.1 of Report 10/WM/03/21, which have been adopted as the GAC for this linkage and are reproduced in Table A3 below.

Since water supply pipes are typically laid at a minimum depth of 0.75 m below finished ground levels, sample results from depths between 0.5 m and 1.5 m below finished level are generally considered suitable for assessing risks to water supply. Samples outside these depths can be used, providing the stratum is the same as that in which water supply pipes are likely to be located. The report specifies that sampling should characterise the ground conditions to a minimum of 0.5 m below the proposed depth of the pipe.

It should be noted that the assessment provided in this report is a guide and the method of assessment and recommendations should be checked with the relevant water supply company.

Table M1: Generic assessment criteria for water supply pipes

		Pipe material	
		GAC (mg/kg)	
	Parameter group	PE	PVC
1	Extended VOC suite by purge and trap or head space and GC-MS with TIC (Not including compounds within group 1a)	0.5	0.125
1a	<ul style="list-style-type: none"> BTEX + MTBE 	0.1	0.03
2	SVOCs TIC by purge and trap or head space and GC-MS with TIC (aliphatic and aromatic C ₅ –C ₁₀) (Not including compounds within group 2e and 2f)	2	1.4
2e	<ul style="list-style-type: none"> Phenols 	2	0.4
2f	<ul style="list-style-type: none"> Cresols and chlorinated phenols 	2	0.04
3	Mineral oil C ₁₁ –C ₂₀	10	Suitable
4	Mineral oil C ₂₁ –C ₄₀	500	Suitable
5	Corrosive (conductivity, redox and pH)	Suitable	Suitable
Specific suite identified as relevant following site investigation			
2a	Ethers	0.5	1
2b	Nitrobenzene	0.5	0.4
2c	Ketones	0.5	0.02
2d	Aldehydes	0.5	0.02
6	Amines	Not suitable	Suitable
Notes: where indicated as 'suitable', the material is considered resistant to permeation or degradation and no threshold concentration has been specified by UKWIR.			



APPENDIX N GENERIC ASSESSMENT CRITERIA FOR CONTROLLED WATERS

GENERIC ASSESSMENT CRITERIA FOR CONTROLLED WATERS

Protection of the water environment

The water environment in the United Kingdom is protected under a number of regulatory regimes. The relevant environmental regulator is consulted where there may be a risk that pollution of 'controlled waters' may occur or may have occurred in the past.

The term 'controlled waters' refers to coastal waters, inland freshwaters and groundwater. The EU Water Framework Directive (WFD) (2000/60/EC) is implemented via domestic regulations and guidance, covering aspects of groundwater and surface water protection as well as drinking water supply policy. Domestic legislation and guidance will vary across the United Kingdom. Therefore, the relevant legislation for England, Wales, Northern Ireland and Scotland should be reviewed, alongside guidance provided by the Environment Agency (EA), Natural Resource Wales (NRW), the Scottish Environmental Protection Agency (SEPA) or the Northern Ireland Environment Agency (NIEA), as appropriate.

The main objectives of the protection and remediation of groundwater under threat from land contamination are set out within "The Environment Agency's approach to groundwater protection", version 1.0 (March 2017)⁽¹⁾ and the associated guidance "Land contamination groundwater compliance points: quantitative risk assessments (March 2017)^(1a) that have replaced the previous guidance document "Groundwater Principles and Practice (GP3)". When assessing risks to groundwater, the following need to be considered:

- Where pollutants have not yet entered groundwater, all necessary and reasonable measures must be taken to:
 - **prevent** the input of **hazardous** substances into groundwater (see description of hazardous substances below)
 - **limit** the entry of other (non-hazardous) pollutants into groundwater to avoid pollution, deterioration in the status of groundwater bodies and to prevent sustained, upward trends in pollutant concentrations in groundwater.
- Where pollutants have already entered groundwater, the priority is to take all necessary and reasonable measures to:
 - **minimise** further entry of "contaminants" where there is a defined source
 - **limit the pollution** of groundwater or any effect on the status of the groundwater body from the future expansion of the 'plume', if necessary, by actively reducing its extent.

Within the context of groundwater risk assessments on sites affected by land contamination, "reasonable" means feasible without involving disproportionate costs. What costs are "disproportionate" depends on site-specific circumstances, which may include:

- Considerations of technical feasibility such as identified by the remedial options appraisal, this may be due to the distribution or nature of the contamination and the available remedial methods to treat the identified contamination;
- Sustainability considerations.

DEFINITIONS AND SUBSTANCE CLASSIFICATIONS

Risks to surface waters:

When assessing risks to surface waters, the following list of definitions should be understood:

Priority substances (PS) are harmful substances originally identified under the Water Framework Directive (WFD) 2000/60/EC as substances ‘presenting a significant risk to or via the aquatic environment’ at a European level. Member States are required to incorporate the identified **PS** into their country-wide monitoring programmes. There are currently 33 **PS** defined within the Priority Substances Directive (2013/39/EU; Annex 1), with a further 12 additional substances due to come into force from 22 December 2018. Directive 2013/39/EU has been transposed into domestic legislation for England and Wales by The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Under the umbrella of **PS**, there is a sub-set of substances identified as being “hazardous”, and these are referred to as **Priority hazardous substances (PHS)**. The list of **PHS** is defined at EU level within the Priority Substances Directive (2013/39/EU). The WFD defines hazardous substances as ‘substances (or groups of substances) that are toxic, persistent and liable to bio-accumulate, and other substances or groups of substances that give rise to an equivalent level of concern.’ There are currently 15 **PHS**, with a further 6 additional substances due to come into force from 22 December 2018.

There is also another group of substances defined at EU level and which are referred to as **other pollutants (OP)** in Directive 2013/39/EU. These are additional substances which although not **priority substances**, have EQS which are identical to those laid down in the legislation which applied prior to 13 January 2009 (Directive 2008/105/EU). The **OP** are listed along with the **priority substance (PS)** within the Priority Substances Directive (2013/39/EU), and their associated EQS are also listed therein. There are 6 **OP** defined within the Priority Substances Directive (2013/39/EU).

In addition to the EU level substances, there are also a group of pollutants defined at a Member State level, referred to as **Specific pollutants (SP)**. These substances are pollutants which are released in significant quantities into water bodies in each of the individual European Member States. Under the WFD, Member States are required to set their own EQS for these substances. An indicative list of **SP** is given in Annex VIII of the WFD. Many of the substances categorised as **SP** in the UK were formerly List 2 substances under the old Groundwater Directive (80/68/EEC). The **SP** are defined within Part 2 (Table 1) of The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Risks to groundwater:

When assessing risks to groundwater, the following definitions should be understood:

Under the requirements of the Groundwater Daughter Directive (2006/118/EU), the UK has published a list of substances it considers to be **hazardous substances** with respect to groundwater. In their advisory capacity to the government, this list has been derived by the UK Joint Agencies Groundwater Directive Advisory Group (JAGDAG), of which the Environment Agency is a member. The JAGDAG list of **hazardous substances** was published in January 2017 and the Environment Agency will use the updated list of hazardous substances from this date for all new activities that may lead to the discharge of hazardous substances to groundwater. The list is extensive and can be found in full at:

<https://www.wfduk.org/stakeholders/jagdag>

Selecting the appropriate assessment criteria

When assessing the risks to controlled waters, various assessment criteria apply, depending on the nature of the assessment and the conceptual site model.

Where a surface water body is involved, then Environmental Quality Standards (EQS) are the relevant assessment criteria as they are designed to be protective of surface water ecology.

Where a public water supply or a Principal aquifer is involved, then the standards defined in The Water Supply (Water Quality) Regulations⁽²⁾ are the primary source of assessment criteria. The Private Water Supplies Regulations⁽³⁾ may also be applicable in some cases. For instances where there are no UK assessment criteria, then the World Health Organisation (WHO) drinking water guidelines⁽⁴⁾ may be used.

This appendix presents the generic assessment criteria (GAC) that RSK considers suitable for assessing risks to controlled waters for our most commonly encountered determinants. A full list of EQS for England and Wales are included in The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

The RSK GAC for controlled waters are presented in **Table 1** and **Table 2**. In line with the Environment Agency's Remedial Targets Methodology, the GAC for controlled waters are termed 'target concentrations'.

The appropriate target concentrations should be selected with consideration to:

- the site conceptual model (i.e. the receptor at potential risk);
- whether the substance is already present in groundwater at the site;
- whether or not the substance is classified as a priority hazardous substance under the Priority Substances Directive (2013/39/EC) (see above), or as a hazardous substance according to the current list of JAGDAG determinations⁽⁵⁾; and
- background concentrations in the aquifer (if applicable).

It is important to remember that the WFD and Environment Agency guidance^(1 & 1a) support a sustainable, risk-based approach be applied to groundwater contamination. Exceedance of any target concentration does not necessarily imply that an unacceptable risk exists or that remediation is inevitably required.

Target concentrations shaded in green are <u>statutory values</u>	Target concentrations shaded in orange are <u>non-statutory values</u>
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Note: Units µg/l throughout (unless otherwise stated)

Table 1: Target concentrations for controlled waters (excluding TPH CWG fractions)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Metals & other inorganics						
Hazardous substance	Specific pollutant	Arsenic	-	10 ⁽²⁾	50 ^(6a)	25 ^(6a)
Non-hazardous pollutant	Priority substance	Cadmium	0.1 ⁽⁷⁾	5 ⁽²⁾	≤0.08, 0.08, 0.09, 0.15, 0.25 ^(6b)	0.2 ^(6a)
<i>(Not determined)</i>	-	Chromium (total)	-	50 ⁽²⁾	8.1 Sum values for chromium III and VI	-
<i>(None)</i>	Specific pollutant	Chromium (III)	-	Use value for total chromium	4.7 ^(6a)	-
Hazardous substance	Specific pollutant	Chromium (VI)	-		3.4 ^(6a)	0.6 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
<i>(Not determined)</i>	Specific pollutant	Copper	-	2,000 ⁽²⁾	1 bioavailable ^(6a)	3.76 dissolved, where DOC ≤1mg/l ^(6a)
						3.76µg/l + (2.677µg/l x ((DOC/2) – 0.5µg/l)) dissolved, where DOC >1mg/l ^(6a)
Hazardous substance	Priority substance	Lead	-	10 ⁽²⁾	1.2 bioavailable ^(6a)	1.3 ^(6a)
Hazardous substance	Priority hazardous substance	Mercury	0.01 ⁽⁷⁾	1 ⁽²⁾	0.07 ^(6c)	0.07 ^(6c)
Non-hazardous pollutant	Priority substance	Nickel	-	20 ⁽²⁾	4.0 bioavailable ^(6a)	8.6 ^(6a)
Non-hazardous pollutant	-	Selenium	-	10 ⁽²⁾	-	-
Non-hazardous pollutant	Specific pollutant	Zinc	-	3,000 ⁽⁸⁾	10.9 bioavailable ^(6a)	6.8 dissolved ^(6a)
<i>None</i>	Specific pollutant	Iron	-	200 ⁽²⁾	1000 ^{(6a)*1}	1000 ^{(6a)*1}
<i>None</i>	Specific pollutant	Manganese	-	50 ⁽²⁾ (0.05mg/l)	123 bioavailable ^(6a) (0.123mg/l)	-
<i>(Not determined)</i>	-	Aluminium	-	200 ⁽²⁾	-	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority hazardous substance	Tributyltin compounds (Tributyltin-cation)	0.001 ⁽⁷⁾	-	0.0002 ^(6a)	0.0002 ^(6a)
<i>(Not determined)</i>	-	Sodium	-	200,000 ⁽²⁾ (200 mg/l)	-	-
Non-hazardous pollutant	Specific pollutant	Cyanide (Hydrogen cyanide)	-	50 ⁽²⁾ (0.05 mg/l)	1 ^(6a) (0.001 mg/l)	1 ^(6a) (0.001 mg/l)
Non-hazardous pollutant	-	Total ammoniacal nitrogen [§]	-	500 ⁽²⁾ (0.5 mg/l) as NH ₄ (472 expressed as NH ₃ ; 389 expressed as N)	300 ^(6f) (0.3 mg/l) as N (364 expressed as NH ₃ ; 386 expressed as NH ₄)	-
Non-hazardous pollutant	Specific pollutant	Ammonia un-ionised (equilibrium ratio calculated) (NH ₃)	-	-	-	21 ^(6a) (0.021 mg/l)
Non-hazardous pollutant	Specific pollutant	Chlorine	-	-	2 ^(6a) (0.002 mg/l)	10 ^(6d) (0.01 mg/l)
<i>(Not determined)</i>	-	Chloride	-	250,000 ⁽²⁾ (250 mg/l)	-	-
<i>(Not determined)</i>	-	Sulphate	-	250,000 ⁽²⁾ (250 mg/l)	-	-
<i>(Not determined)</i>	-	Nitrate (as NO ₃)	-	50,000 ⁽²⁾ (50 mg/l)	-	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
<i>(Not determined)</i>	-	Nitrite (as NO ₂)	-	500 ⁽²⁾ (0.5 mg/l)	10 ⁽⁹⁾ (0.01 mg/l)	-
Volatile organic compounds (VOC)						
Non-hazardous pollutant	Other pollutant	Tetrachloroethene (tetrachloroethylene; PCE)	0.1 ⁽⁷⁾	10 ⁽²⁾ sum of TCE and PCE	10 ^(6a)	10 ^(6a)
Hazardous substance	Other pollutant	Trichloroethene (trichloroethylene; TCE)	0.1 ⁽⁷⁾		10 ^(6a)	10 ^(6a)
<i>None</i>	Specific pollutant	Tetrachloroethane	-	-	140 ^(6a)	-
Hazardous substance	Other pollutant	Carbon tetrachloride (tetrachloromethane)	0.1 ⁽⁷⁾	3.0 ⁽²⁾	12 ^(6a)	12 ^(6a)
Non-hazardous pollutant	Priority substance	1,2-Dichloroethane	1.0 ⁽⁷⁾	3.0 ⁽²⁾	10 ^(6a)	10 ^(6a)
Non-hazardous pollutant	-	1,2-Dichloroethene (DCE) sum of cis and trans	-	50.0 ⁽⁴⁾	-	-
Hazardous substance	-	Vinyl chloride (chloroethene)	-	0.5 ⁽²⁾	-	-
Non-hazardous pollutant	Priority substance	Dichloromethane	-	20 ⁽⁴⁾	20 ^(6a)	20 ^(6a)
Non-hazardous pollutant	Priority substance	Trichlorobenzenes	0.01 ⁽⁷⁾	-	0.4 ^(6a)	0.4 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Trichloromethane (Chloroform)	0.1 ⁽⁷⁾	100 ^(2a) (sum of trihalomethanes – chloroform, bromform, dibromochloromethane, bromodichloromethane)	2.5 ^(6a)	2.5 ^(6a)
<i>(Not determined)</i>	-	Bromoform	-		-	-
<i>(Not determined)</i>	-	Dibromochloromethane	-		-	-
<i>(Not determined)</i>	-	Bromodichloromethane	-		-	-
Non-hazardous pollutant	Priority hazardous substance	Di(2-ethylhexyl) phthalate (bis(2-ethylhexyl) phthalate, DEHP)	-	8 ⁽⁴⁾	1.3 ^(6a)	1.3 ^(6a)
<i>None</i>	Specific pollutant	Benzyl butyl phthalate	-	-	7.5 ^(6a)	0.75 ^(6e)
Hazardous substance	Priority hazardous substance	Hexachlorobutadiene (as a pesticide, but reported in a VOC suite)	0.005 ⁽⁷⁾	0.1 ⁽²⁾	0.6 ^(6c)	0.6 ^(6c)
Semi-volatile organic compounds (SVOC)						
<i>(Not determined)</i>	-	Acenaphthylene (Aro EC12-EC16)	-	-	5.8 ⁽¹⁰⁾	
Hazardous substance	Priority hazardous substance	Anthracene (Aro EC16-EC21)	-	-	0.1 ^(6a)	0.1 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Non-hazardous pollutant	Priority substance	Naphthalene (Aro EC10-EC12)	-	-	2 ^(6a)	2 ^(6a)
Hazardous substance	Priority substance	Fluoranthene (Aro EC21-EC35) not used as an indicator for this EC band	-	-	0.0063 ^(6a)	0.0063 ^(6a)
Hazardous substance(s)	Priority hazardous substance(s)	Benzo(a)pyrene (Aro EC21-EC35)	-	0.01 ⁽²⁾	0.00017 ^(6a)	0.00017 ^(6a)
		Benzo(b)fluoranthene (Aro EC21-EC35)	-	0.1 ⁽²⁾ sum of the concentration of the four specified compounds	No EQS for these substances. B(a)P should be used as the indicator compound instead.	
		Benzo(k)fluoranthene (Aro EC21-EC35)	-			
		Benzo(g,h,i)perylene (Aro EC21-EC35)	-			
		Indeno(1,2,3-cd) pyrene (Aro EC21-EC35)	-			
Non-hazardous pollutant	Specific pollutant	Phenol	-	-	7.7 ^(6a)	7.7 ^(6a)
Hazardous substance	Specific pollutant	2,4-Dichlorophenol	0.1 ⁽⁷⁾	-	4.2 ^(6a)	0.42 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Pentachloro-phenol (PCP) (as a pesticide, but reported in an SVOC suite)	0.1 ⁽⁷⁾	0.1 ⁽²⁾	0.4 ^(6a)	0.4 ^(6a)
Petroleum hydrocarbons						
Hazardous substance	-	Total petroleum hydrocarbons	-	See Table 2 for individual (non-statutory) TPH CWG fractions with respect to drinking water receptors	See individual risk driving compounds (i.e. BTEX and PAH) for specific EQS	
Hazardous substance	Priority substance	Benzene (Aro EC5-EC7)	1 ⁽⁷⁾	1 ⁽²⁾	10 ^(6a)	8 ^(6a)
Hazardous substance	Specific pollutant	Toluene (Aro EC7-EC8)	4 ⁽⁷⁾	700 ⁽⁴⁾	74 ^(6a)	74 ^(6a)
Hazardous substance	-	Ethylbenzene (Aro EC8-EC10)	-	300 ⁽⁴⁾	300 ⁽¹¹⁾	-
<i>(Not determined)</i>	-	Xylenes (Aro EC8-EC10)	3 ⁽⁷⁾	500 ⁽⁴⁾	30 ⁽¹¹⁾	-
Non-hazardous pollutant	-	Methyl tertiary butyl ether (MTBE)	-	15 ⁽¹²⁾	-	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Pesticides, fungicides, insecticides and herbicides						
<i>(Not determined) – assume to be Hazardous Substance</i>	-	Total pesticides	-	0.5 ⁽²⁾	-	-
<i>(Not determined) - assume to be Hazardous Substance</i>	-	Other individual pesticides (unless otherwise detailed below)	-	0.1 ⁽²⁾	-	-
Hazardous substance(s)	Other pollutant (Cyclodiene pesticides)	Aldrin	0.003 ⁽⁷⁾	0.03 ⁽²⁾	0.01 ^(6a) (sum of all four)	0.005 ^(6a) (sum of all four)
		Dieldrin	0.003 ⁽⁷⁾	0.03 ⁽²⁾		
		Endrin	0.003 ⁽⁷⁾	0.1 ^(2b) (‘other individual pesticide’)		
		Isodrin* ²	0.003 ⁽⁷⁾	0.1 ^(2b) (‘other individual pesticide’)		
Hazardous substance	Other pollutant	DDT (total)	0.002 ⁽⁷⁾	0.1 ⁽²⁾ (‘other individual pesticide’)	0.025 ^(6a)	0.025 ^(6a)
Hazardous substance	Specific pollutant	Carbendazim	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.15 ^(6a)	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Specific pollutant	Chlorothalonil	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.035 ^(6a)	-
Hazardous substance	Specific pollutant (until 22/12/18, after which it becomes a Priority substance)	Cypermethrin	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.0001 ^(6a) From 22/12/18: 8.0E ^{-5(6a)}	0.0001 ^(6a) From 22/12/18: 8.0E ^{-6(6a)}
Hazardous substance	Specific pollutant	Dimethoate	0.01 ⁽⁷⁾	0.1 ⁽²⁾ (‘other individual pesticide’)	0.48 ^(6a)	0.48 ^(6a)
<i>(Not determined)</i>	Specific pollutant	Glyphosate	-	0.1 ⁽²⁾ (‘other individual pesticide’)	196 ^(6a)	196 ^(6a)
Hazardous substance	Specific pollutant	Linuron	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.5 ^(6a)	0.5 ^(6a)
Non-hazardous pollutant	Specific pollutant	Mecoprop	0.04 ⁽⁷⁾	0.1 ⁽²⁾ (‘other individual pesticide’)	18 ^(6a)	18 ^(6a)
Non-hazardous pollutant	Specific pollutant	Methiocarb	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.01 ^(6a)	-
Non-hazardous pollutant	Specific pollutant	Pendimethalin	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.3 ^(6a)	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Specific pollutant	Permethrin	0.001 ⁽⁷⁾	0.1 ⁽²⁾ (‘other individual pesticide’)	0.001 ^(6a)	0.0002 ^(6a)
Hazardous substance	Priority substance	Alachlor	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.3 ^(6a)	0.3 ^(6a)
Hazardous substance	Priority substance	Atrazine	0.03 ⁽⁷⁾	100 ⁽⁴⁾ (‘other individual pesticide’)	0.6 ^(6a)	0.6 ^(6a)
Hazardous substance	Priority substance	Diuron	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.2 ^(6a)	0.2 ^(6a)
Hazardous substance	Priority hazardous substance	Endosulphan	0.005 ⁽⁷⁾	0.1 ⁽²⁾ (‘other individual pesticide’)	0.005 ^(6a)	0.0005 ^(6a)
Non-hazardous pollutant	Priority substance	Isoproturon	-	0.1 ⁽²⁾ (‘other individual pesticide’)	0.3 ^(6a)	0.3 ^(6a)
Hazardous substance	Priority substance	Simazine	0.03 ⁽⁷⁾	0.1 ⁽²⁾ (‘other individual pesticide’)	1 ^(6a)	1 ^(6a)
Hazardous substance	Priority hazardous substance	Trifluralin	0.01 ⁽⁷⁾	0.1 ⁽²⁾ (‘other individual pesticide’)	0.03 ^(6a)	0.03 ^(6a)



Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
<i>(Not determined)</i>	From 22/12/18: Priority substance	Dichlorvos	-	0.1 ⁽²⁾ (‘other individual pesticide’)	From 22/12/18: 6.0E ^{-4(6a)}	From 22/12/18: 6.0E ^{-5(6a)}
Hazardous substance	From 22/12/18: Priority substance	Heptachlor and heptachlor epoxide	-	0.03 ⁽²⁾	From 22/12/18: 2.0E ^{-7(6a)}	From 22/12/18: 1.0E ^{-08(6a)}
Miscellaneous						
<i>None</i>	Specific pollutant	Triclosan (antibacterial agent)	-	-	0.1 ^(6a)	0.1 ^(6a)
Hazardous substance	From 22/12/18: Priority hazardous substance	Perfluoro-octane sulfonic acid (and its derivatives) (PFOS)	-	-	From 22/12/18: 6.5E ^{-4(6a)}	From 22/12/18: 1.3E ^{-4(6a)}
Hazardous substance	From 22/12/18: Priority hazardous substance	Hexabromo cyclododecane (HBCDD)	-	-	From 22/12/18: 0.0016 ^(6a)	From 22/12/18: 0.0008 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters

Notes:

⁽²⁾ A target concentration is not available.

⁽⁵⁾Please note that total ammonia (NH₄⁺ and NH₃) is equivalent to ammoniacal nitrogen in laboratory reports

^{*1} Please note that although iron is listed in the 2015 Direction as 1.000 µg/l, the EQS remains at 1mg/l in Scotland and it is assumed this is an error and should read either 1,000 or 1000µg/l.

^{*2} Please note that although Isodrin is not listed in name within the group of “Cyclodiene pesticides” in Table 1 of Schedule 3 Part 3 of the 2015 Direction⁽⁶⁾, the CAS number for Isodrin (465-73-6) is listed and therefore it is assumed that it has been missed off the named list of substances.

^{*3} Total petroleum hydrocarbons is used for consistency, but is an analytical method-defined measurement for a mixture of hydrocarbons subject to environmental analysis¹¹.

“Bioavailable” in relation to copper, zinc, nickel and manganese (but not lead) is the generic EQSbioavailable^(6a) derived from the Metal Bioavailability Assessment Tool (M-BAT) developed by the Water Framework Directive UK Technical Advisory Group (WFDTAG). Exceedance of this value should prompt a site-specific assessment using the M-BAT with pH, DOC and Ca to derive a site-specific EQS termed the PNEC_{dissolved}.
<http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat>.

For zinc, if there is an exceedance of the EQSbioavailable in an initial GQRA, Tier 2 required that the EQS for zinc should also have the ambient background concentration of zinc added as well

Table 2: World Health Organization (WHO) guide values for TPH CWG fractions in drinking water⁽¹³⁾ (as referenced in CL:AIRE, 2017⁽¹¹⁾)

TPH CWG fraction	WHO guide value for drinking water ⁽¹³⁾ (µg/l)
Aliphatic fractions:	
Aliphatic EC5-EC6	15,000
Aliphatic >EC6-EC8	15,000
Aliphatic >EC8-EC10	300
Aliphatic >EC10-EC12	300
Aliphatic >EC12-EC16	300
Aliphatic >EC16-EC21	-
Aliphatic >EC21-EC35	-
Aromatic fractions:	
Aromatic EC5-EC6	10 (benzene)
Aromatic >EC6-EC8	700 (toluene)
Aromatic >EC8-EC10	300 (ethyl benzene) 500 (xylenes)
Aromatic >EC10-EC12	90
Aromatic >EC12-EC16	90
Aromatic >EC16-EC21	90
Aromatic >EC21-EC35	90
Reference: World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva ⁽¹³⁾ .	

References

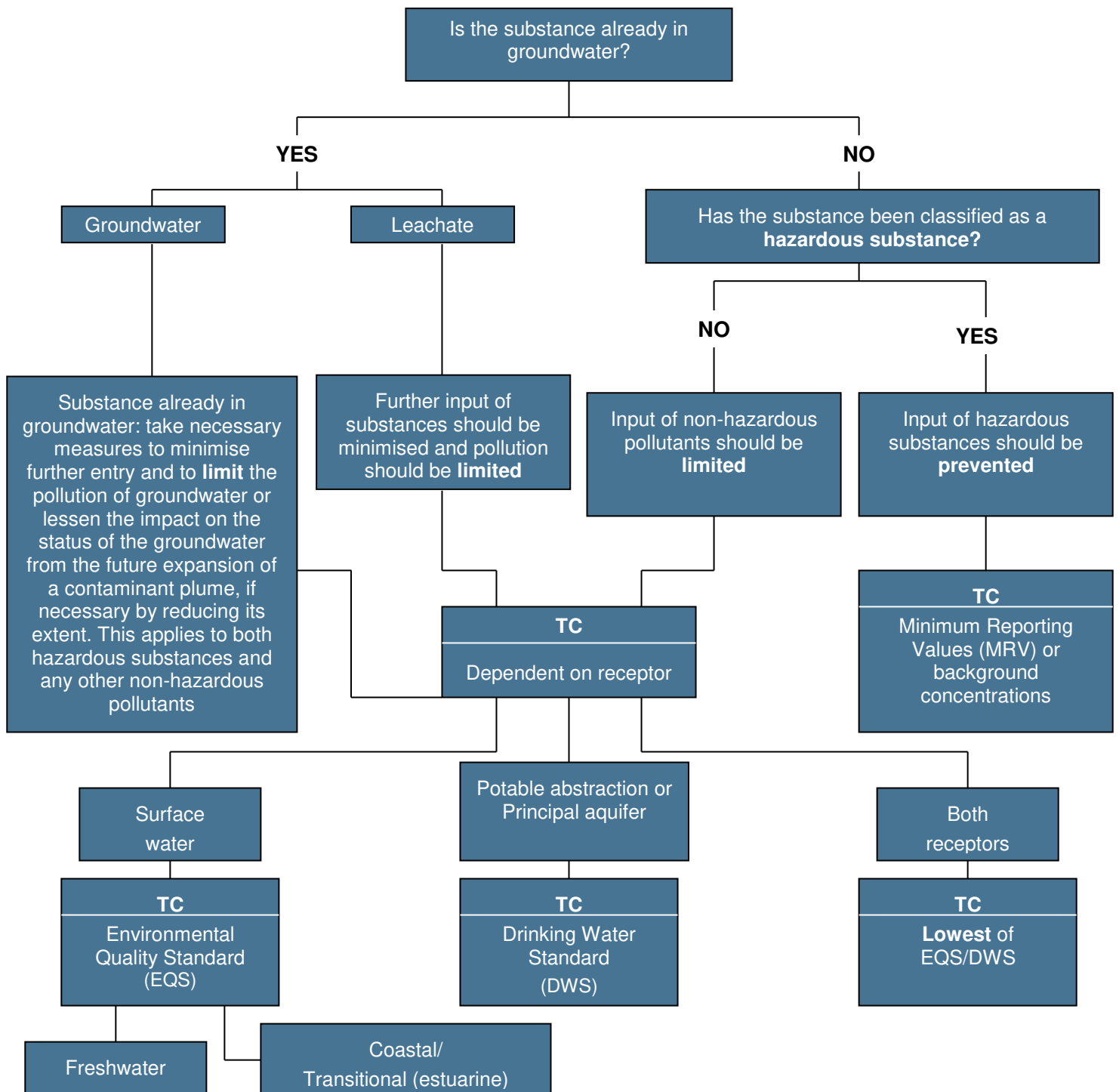
1. Environment Agency (2017), 'The Environment Agency's approach to groundwater protection', version 1.0, March 2017 (formerly contained within GP3) [accessed 29 March 2017].
<https://www.gov.uk/government/collections/groundwater-protection>
- 1a. Environment Agency (2017), 'Land contamination groundwater compliance points: quantitative risk assessments', March 2017 (formerly contained within GP3) [accessed 29 March 2017].
<https://www.gov.uk/government/collections/groundwater-protection>
2. The Water Supply (Water Quality) Regulations 2016 (SI 2016/619)
 - 2a. Sum of chloroform, bromoform, dibromochloromethane and bromodichloromethane
 - 2b. Standard applies to individual pesticides except aldrin, dieldrin, heptachlor and heptachlor epoxide, for which a separate standard is defined.
3. The Private Water Supplies (England) Regulations 2016. SI 2016 / 618
4. WHO (2011), *Guidelines for drinking-water quality*, 4th edn
5. JAGDAG hazard substance determinations: This list contains substances that are determined to be hazardous substances or non-hazardous pollutants for the purposes of the groundwater directive 2006/118/EC. The absence of an assessment or substance from the list means an assessment has not been done yet and is presented as 'Not yet determined'; if a substance has been assessed but does not fall into either category it is presented as 'None'. For further details on how substances are assessed, see the Joint Agencies Groundwater Directive Advisory Group (JAGDAG) 'Methodology for the determination of hazardous substances in groundwater for the purposes of the groundwater directive 2006/118/EC' which is available from the JAGDAG website. The methodology is a UK-wide framework that sets criteria for how to assess whether a substance is a hazardous substances in groundwater. The list of substances can be found at:
<https://www.wfduk.org/stakeholders/jagdag>
6. The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.
 - 6a. The EQS for these substances are based on a "long term mean" or an "annual average (AA)" EQS.
 - 6b. For cadmium and its compounds the EQS values vary depending on the hardness of the water as specified in five class categories (Class 1: < 40 mg CaCO₃/l, Class 2: 40 to < 50 mg CaCO₃/l, Class 3: 50 to < 100 mg CaCO₃/l, Class 4: 100 to < 200 mg CaCO₃/l and Class 5: ≥ 200 mg CaCO₃/l).
 - 6c. The EQS for Mercury and hexachlorobutadiene are based on a "maximum acceptable concentration (MAC)" EQS in absence of an "annual average (AA)" EQS.
 - 6d. The EQS for chlorine in saltwater is based on the 95th percentile concentration of total residual oxidant, which refers to the sum of all oxidising agents existing in water, expressed as available chlorine.
 - 6e. The recommended saltwater standard is derived using a safety factor of 100. Where the standard is failed, it is recommended that supporting evidence of ecological damage should be obtained before committing to expensive action.
 - 6f. EQS for total ammonia is as per Schedule 3, Part 1, Table 7 of of the above directions. EQS applies to river types 1, 2 and 4 and 6 (namely upland and low alkalinity). The EQS for a lowland and high alkalinity rivers (types 3, 5 and 7) is 600µg/l (0.6mg/l).



Additional information on the Metal Bioavailability Assessment Tool (M-BAT) is available at <http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat>

7. Minimum reporting values listed at <https://www.gov.uk/government/publications/values-for-groundwater-risk-assessments/hazardous-substances-to-groundwater-minimum-reporting-values> (updated 13 January 2017; accessed 29 March 2017). Note target concentration for xylenes is 3 µg/l each for o-xylene and m/p xylene as it may not be possible to separate m- and p-xylene; 135 tcb, 124 tcb, 123 tcb each to 0.01 µg/l)
8. The Surface Waters (Abstraction for Drinking Water) (Classification) Regulations 1996 (as amended). SI 1996 / 3001
9. Council Directive on the Quality of Fresh Waters Needing Protection or Improvement in Order to Support Fish Life (Freshwater Fish Directive) (78/659/EEC)
10. WRc plc (2002), R&D Technical Report P45.
11. CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. V1.1.
12. Drinking Water Inspectorate (London, UK). Environmental Information Request on MTBE in drinking water. Ref. DWI 1/10/18; dated 28 November 2006. Value is based on the odour threshold for MTBE, which is lower than a health-based guideline value
13. World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva. [accessed 29 March 2017] http://www.who.int/water_sanitation_health/dwq/chemicals/petroleumproducts_2add_june2008.pdf

FLOW CHART TO ASSIST WITH SELECTION OF TARGET CONCENTRATIONS




TC = Target concentration

When leachate is being assessed the 'compliance point' is the groundwater body. Therefore dilution within the groundwater body may be applied with caution before comparing with the TC.

When directly assessing a receptor, e.g., a river, the appropriate TC should be selected.



APPENDIX O GQRA DATA SCREENING TABLES – SOILS ZONE A

Project name	Brown's Lane - Zone A	Notes	
Project code	252332		
Client name	Coventry City Council		
Address			
NGR			
Land use	Residential with home-grown produce		
SOM	1%		
GAC version	2019_00		

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/08021/3	20/08021/4	20/08021/6	20/08021/9	20/08021/13	20/08021/14	20/08021/18	20/08021/20	20/08021/21		
									20/08021/48	TP6	TP6	TP8	TP17	TP24	TP24	TP30	TP34	TP35		
									Client sample ID	TP5	TP6	TP6	TP8	TP17	TP24	TP24	TP30	TP34	TP35	
									Depth to top	1.3	0.2	0.8	0.4	0.1	0.3	0.6	0.1	0.5	0.2	
									Depth to bottom											
									Date sampled	16/09/20	04/09/20	04/09/20	14/09/20	15/09/20	15/09/20	15/09/20	14/09/20	15/09/20	15/09/20	
Metals and Inorganics																				
Arsenic	mg/kg	37		10	<1	20	11	9	<1			<1	4	3		3	2	3		
Cadmium	mg/kg	22		1.8	<0.5	20	17	3	<0.5			0.7	0.9	0.5		0.7	0.6	0.5		
Chromium	mg/kg	910	21	47	16	20	20	0		18		36	30	23		22	18	21		
Chromium (hexavalent)	mg/kg	21			<1	20	0	20	<1			<1	<1	<1		<1	<1	<1		
Copper	mg/kg	2500		56	8	20	20	0		11		26	22	19		17	8	17		
Lead	mg/kg	200		144	10	20	20	0		26		11	45	33		44	15	46		
Mercury	mg/kg	39	0.2	0.49	<0.17	20	3	17	<0.17			<0.17	<0.17	<0.17		<0.17	<0.17	<0.17		
Nickel	mg/kg	130		37	12	20	20	0		13		28	17	17		18	18	16		
Selenium	mg/kg	258			<1	20	0	20	<1			<1	<1	<1		<1	<1	<1		
Zinc	mg/kg	3900		729	29	20	20	0		53		51	70	57		66	49	60		
Asbestos																				
Asbestos in soil						20	0	20		NAD		NAD	NAD	NAD		NAD	NAD	NAD		
Petroleum Hydrocarbons																				
Ali >C5-C6	mg/kg	42			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
Ali >C6-C8	mg/kg	100			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
Ali >C8-C10	mg/kg	27			<1	18	0	18	<1			<1	<1			<1	<1			
Ali >C10-C12	mg/kg	130	48		<1	18	0	18	<1			<1	<1			<1	<1			
Ali >C12-C16	mg/kg	1100	24		<1	18	0	18	<1			<1	<1			<1	<1			
Ali >C16-C21	mg/kg				<1	18	0	18	<1			<1	<1			<1	<1			
Ali >C21-C35	mg/kg			19	<1	18	9	9		7		<1		4			1	<1		
Ali >C16-C35 calculated	mg/kg	65000	8	19	<1	18	9	9		7		<1		4			1	<1		
Total Aliphatics	mg/kg			19	<1	18	9	9		7		<1		4			1	<1		
Aro >C5-C7	mg/kg				<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
Aro >C7-C8	mg/kg				<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
Aro >C8-C10	mg/kg	30		1	<1	18	1	17	<1			<1	<1			<1	<1			
Aro >C10-C12	mg/kg	80			<1	18	0	18	<1			<1	<1			<1	<1			
Aro >C12-C16	mg/kg	140		2	<1	18	1	17	<1			<1	<1			<1	<1			
Aro >C16-C21	mg/kg	260		6	<1	18	2	16	<1			<1	<1			<1	<1			
Aro >C21-C35	mg/kg	1100		40	<1	18	12	6		4		<1		7			4	<1		
Total Aromatics	mg/kg			49	<1	18	12	6		4		<1		7			4	<1		
TPH (Ali & Aro)	mg/kg			68	<1	18	12	6		11		<1		11			5	<1		
BTEX - Benzene	mg/kg	0.2			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
BTEX - Toluene	mg/kg	130			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
BTEX - Ethyl Benzene	mg/kg	50			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
BTEX - o Xylene	mg/kg	61			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
BTEX - m & p Xylene	mg/kg	57			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
MTBE	mg/kg	60			<0.01	18	0	18	<0.01			<0.01	<0.01			<0.01	<0.01			
Polycyclic aromatic hydrocarbons																				
Acenaphthene	mg/kg	230		0.01	<0.01	19	1	18	<0.01			<0.01	<0.01			<0.01	<0.01	<0.01		
Acenaphthylene	mg/kg	180		0.01	<0.01	19	1	18	<0.01			<0.01	<0.01			<0.01	<0.01	<0.01		
Anthracene	mg/kg	2400		0.06	<0.02	19	2	17	<0.02			<0.02	<0.02			<0.02	<0.02	<0.02		
Benzo(a)anthracene	mg/kg	7		0.22	<0.04	19	2	17	<0.04			<0.04	<0.04			<0.04	<0.04	<0.04		
Benzo(a)pyrene	mg/kg	5		0.29	<0.04	19	3	16	<0.04			<0.04	<0.04			<0.04	<0.04	<0.04		

Project name	Brown's Lane - Zone A
Project code	252332
Client name	Coventry City Council
Address	
NGR	
Land use	Residential with home-grown produce
SOM	1%
GAC version	2019_00

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/22	20/08021/25	20/08021/27	20/08021/28	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/51	20/08021/35
									Client sample ID	TP37	TP41	TP43	TP43	WS2	WS2	WS3	WS4	WS6	WS7
									Depth to top	0.1	0.4	0.1	1	0.4	2.7	0.5	0.4	1.7	0.3
									Depth to bottom										
									Date sampled	02/09/20	15/09/20	04/09/20	04/09/20	15/09/20	15/09/20	15/09/20	16/09/20	15/09/20	17/09/20
Metals and Inorganics																			
Arsenic	mg/kg	37		10	<1	20	11	9	1	10	2		<1		<1	<1		<1	
Cadmium	mg/kg	22		1.8	<0.5	20	17	3	0.7	0.9	0.6		0.6		0.7	0.7		<0.5	
Chromium	mg/kg	910	21	47	16	20	20	0	25	27	23		33		28	36			16
Chromium (hexavalent)	mg/kg	21			<1	20	0	20	<1	<1	<1		<1		<1	<1		<1	
Copper	mg/kg	2500		56	8	20	20	0	22	26	16		26		18	27			11
Lead	mg/kg	200		144	10	20	20	0	64	30	23		10		11	11			10
Mercury	mg/kg	39	0.2	0.49	<0.17	20	3	17	<0.17	<0.17	0.26		<0.17		<0.17	<0.17		<0.17	
Nickel	mg/kg	130		37	12	20	20	0	17	24	22		36		24	37			12
Selenium	mg/kg	258			<1	20	0	20	<1	<1	<1		<1		<1	<1		<1	
Zinc	mg/kg	3900		729	29	20	20	0	88	72	61		59		52	66			29
Asbestos																			
Asbestos in soil						20	0	20	NAD	NAD	NAD		NAD		NAD	NAD			NAD
Petroleum Hydrocarbons																			
Ali >C5-C6	mg/kg	42			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
Ali >C6-C8	mg/kg	100			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
Ali >C8-C10	mg/kg	27			<1	18	0	18	<1	<1	<1		<1		<1	<1		<1	<1
Ali >C10-C12	mg/kg	130	48		<1	18	0	18	<1	<1	<1		<1		<1	<1		<1	<1
Ali >C12-C16	mg/kg	1100	24		<1	18	0	18	<1	<1	<1		<1		<1	<1		<1	<1
Ali >C16-C21	mg/kg				<1	18	0	18	<1	<1	<1		<1		<1	<1		<1	<1
Ali >C21-C35	mg/kg			19	<1	18	9	9	5	2	<1		<1		<1	<1		<1	<1
Ali >C16-C35 calculated	mg/kg	65000	8	19	<1	18	9	9	5	2	<1		<1		<1	<1		<1	<1
Total Aliphatics	mg/kg			19	<1	18	9	9	5	2	<1		<1		<1	<1		<1	<1
Aro >C5-C7	mg/kg				<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
Aro >C7-C8	mg/kg				<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
Aro >C8-C10	mg/kg	30		1	<1	18	1	17	<1	<1	<1		<1		<1	<1		<1	<1
Aro >C10-C12	mg/kg	80			<1	18	0	18	<1	<1	<1		<1		<1	<1		<1	<1
Aro >C12-C16	mg/kg	140		2	<1	18	1	17	<1	<1	<1		<1		<1	<1		<1	<1
Aro >C16-C21	mg/kg	260		6	<1	18	2	16	<1	<1	1		<1		<1	<1		<1	<1
Aro >C21-C35	mg/kg	1100		40	<1	18	12	6	9	2	5		<1		<1	<1		<1	1
Total Aromatics	mg/kg			49	<1	18	12	6	9	2	6		<1		<1	<1		<1	1
TPH (Ali & Aro)	mg/kg			68	<1	18	12	6	14	4	6		<1		<1	<1		<1	1
BTEX - Benzene	mg/kg	0.2			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - Toluene	mg/kg	130			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	mg/kg	50			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - o Xylene	mg/kg	61			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - m & p Xylene	mg/kg	57			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
MTBE	mg/kg	60			<0.01	18	0	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
Polycyclic aromatic hydrocarbons																			
Acenaphthene	mg/kg	230		0.01	<0.01	19	1	18	<0.01	<0.01	0.01		<0.01		<0.01	<0.01		<0.01	<0.01
Acenaphthylene	mg/kg	180		0.01	<0.01	19	1	18	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01		<0.01	<0.01
Anthracene	mg/kg	2400		0.06	<0.02	19	2	17	<0.02	<0.02	0.06		<0.02		<0.02	<0.02		<0.02	<0.02
Benzo(a)anthracene	mg/kg	7		0.22	<0.04	19	2	17	<0.04	<0.04	0.12		<0.04		<0.04	<0.04		<0.04	<0.04
Benzo(a)pyrene	mg/kg	5		0.29	<0.04	19	3	16	0.06	<0.04	0.12		<0.04		<0.04	<0.04		<0.04	<0.04

Project name	Brown's Lane - Zone A
Project code	252332
Client name	Coventry City Council
Address	
NGR	
Land use	Residential with home-grown produce
SOM	1%
GAC version	2019_00

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/36	20/08021/37	20/08021/52	20/08021/39	20/08021/40	20/08021/41	20/08021/54	20/08021/55	20/08021/42	20/08021/56
									Client sample ID	WS7	WS9	WS9	WS12	WS13	WS14	WS15	WS19	WS21	WS21
									Depth to top	1.8	0.2	1.9	2	0.2	0.2	1.5	0.8	0.2	1.3
									Depth to bottom										
									Date sampled	17/09/20	18/09/20	18/09/20	18/09/20	18/09/20	17/09/20	18/09/20	18/09/20	16/09/20	16/09/20
Metals and Inorganics																			
Arsenic	mg/kg	37		10	<1	20	11	9			3			<1	<1				5
Cadmium	mg/kg	22		1.8	<0.5	20	17	3			0.5			0.6	<0.5				0.7
Chromium	mg/kg	910	21	47	16	20	20	0			20			19	22				23
Chromium (hexavalent)	mg/kg	21			<1	20	0	20			<1			<1	<1				<1
Copper	mg/kg	2500		56	8	20	20	0			19			17	13				20
Lead	mg/kg	200		144	10	20	20	0			38			25	12				44
Mercury	mg/kg	39	0.2	0.49	<0.17	20	3	17			<0.17			0.17	<0.17				<0.17
Nickel	mg/kg	130		37	12	20	20	0			14			15	16				17
Selenium	mg/kg	258			<1	20	0	20			<1			<1	<1				<1
Zinc	mg/kg	3900		729	29	20	20	0			57			51	40				70
Asbestos																			
Asbestos in soil						20	0	20			NAD			NAD	NAD				NAD
Petroleum Hydrocarbons																			
Ali >C5-C6	mg/kg	42			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
Ali >C6-C8	mg/kg	100			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
Ali >C8-C10	mg/kg	27			<1	18	0	18			<1			<1	<1				<1
Ali >C10-C12	mg/kg	130	48		<1	18	0	18			<1			<1	<1				<1
Ali >C12-C16	mg/kg	1100	24		<1	18	0	18			<1			<1	<1				<1
Ali >C16-C21	mg/kg				<1	18	0	18			<1			<1	<1				<1
Ali >C21-C35	mg/kg			19	<1	18	9	9			2			<1		3			1
Ali >C16-C35 calculated	mg/kg	65000	8	19	<1	18	9	9			2			<1		3			1
Total Aliphatics	mg/kg			19	<1	18	9	9			2			<1		3			1
Aro >C5-C7	mg/kg				<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
Aro >C7-C8	mg/kg				<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
Aro >C8-C10	mg/kg	30		1	<1	18	1	17			<1			<1	<1				<1
Aro >C10-C12	mg/kg	80			<1	18	0	18			<1			<1	<1				<1
Aro >C12-C16	mg/kg	140		2	<1	18	1	17			<1			<1	<1				<1
Aro >C16-C21	mg/kg	260		6	<1	18	2	16			<1			<1	<1				<1
Aro >C21-C35	mg/kg	1100		40	<1	18	12	6			3			1	3				4
Total Aromatics	mg/kg			49	<1	18	12	6			3			1	3				4
TPH (Ali & Aro)	mg/kg			68	<1	18	12	6			6			1	6				5
BTEX - Benzene	mg/kg	0.2			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
BTEX - Toluene	mg/kg	130			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
BTEX - Ethyl Benzene	mg/kg	50			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
BTEX - o Xylene	mg/kg	61			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
BTEX - m & p Xylene	mg/kg	57			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
MTBE	mg/kg	60			<0.01	18	0	18			<0.01			<0.01	<0.01				<0.01
Polycyclic aromatic hydrocarbons																			
Acenaphthene	mg/kg	230		0.01	<0.01	19	1	18			<0.01			<0.01	<0.01				<0.01
Acenaphthylene	mg/kg	180		0.01	<0.01	19	1	18			<0.01			<0.01	<0.01				<0.01
Anthracene	mg/kg	2400		0.06	<0.02	19	2	17			<0.02			<0.02	<0.02				<0.02
Benzo(a)anthracene	mg/kg	7		0.22	<0.04	19	2	17			<0.04			<0.04	<0.04				<0.04
Benzo(a)pyrene	mg/kg	5		0.29	<0.04	19	3	16			<0.04			<0.04	<0.04				<0.04

Project name	Brown's Lane - Zone A	
Project code	252332	
Client name	Coventry City Council	
Address		
NGR		
Land use	Residential with home-grown produce	
SOM	1%	
GAC version	2019_00	

Lab sample ID	20/08021/43	20/08021/44
Client sample ID	WS23	WS24
Depth to top	0.2	0.2
Depth to bottom		
Date sampled	17/09/20	14/09/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete		
Metals and Inorganics										
Arsenic	mg/kg	37		10	<1	20	11	9	<1	6
Cadmium	mg/kg	22		1.8	<0.5	20	17	3	0.7	1.8
Chromium	mg/kg	910	21	47	16	20	20	0	37	47
Chromium (hexavalent)	mg/kg	21			<1	20	0	20	<1	<1
Copper	mg/kg	2500		56	8	20	20	0	22	56
Lead	mg/kg	200		144	10	20	20	0	21	144
Mercury	mg/kg	39	0.2	0.49	<0.17	20	3	17	<0.17	0.49
Nickel	mg/kg	130		37	12	20	20	0	28	31
Selenium	mg/kg	258			<1	20	0	20	<1	<1
Zinc	mg/kg	3900		729	29	20	20	0	61	729
Asbestos										
Asbestos in soil						20	0	20	NAD	NAD
Petroleum Hydrocarbons										
Ali >C5-C6	mg/kg	42			<0.01	18	0	18	<0.01	<0.01
Ali >C6-C8	mg/kg	100			<0.01	18	0	18	<0.01	<0.01
Ali >C8-C10	mg/kg	27			<1	18	0	18	<1	<1
Ali >C10-C12	mg/kg	130	48		<1	18	0	18	<1	<1
Ali >C12-C16	mg/kg	1100	24		<1	18	0	18	<1	<1
Ali >C16-C21	mg/kg				<1	18	0	18	<1	<1
Ali >C21-C35	mg/kg			19	<1	18	9	9	<1	19
Ali >C16-C35 calculated	mg/kg	65000	8	19	<1	18	9	9	<1	19
Total Aliphatics	mg/kg			19	<1	18	9	9	<1	19
Aro >C5-C7	mg/kg				<0.01	18	0	18	<0.01	<0.01
Aro >C7-C8	mg/kg				<0.01	18	0	18	<0.01	<0.01
Aro >C8-C10	mg/kg	30		1	<1	18	1	17	<1	1
Aro >C10-C12	mg/kg	80			<1	18	0	18	<1	<1
Aro >C12-C16	mg/kg	140		2	<1	18	1	17	<1	2
Aro >C16-C21	mg/kg	260		6	<1	18	2	16	<1	6
Aro >C21-C35	mg/kg	1100		40	<1	18	12	6	<1	40
Total Aromatics	mg/kg			49	<1	18	12	6	<1	49
TPH (Ali & Aro)	mg/kg			68	<1	18	12	6	<1	68
BTEX - Benzene	mg/kg	0.2			<0.01	18	0	18	<0.01	<0.01
BTEX - Toluene	mg/kg	130			<0.01	18	0	18	<0.01	<0.01
BTEX - Ethyl Benzene	mg/kg	50			<0.01	18	0	18	<0.01	<0.01
BTEX - o Xylene	mg/kg	61			<0.01	18	0	18	<0.01	<0.01
BTEX - m & p Xylene	mg/kg	57			<0.01	18	0	18	<0.01	<0.01
MTBE	mg/kg	60			<0.01	18	0	18	<0.01	<0.01
Polycyclic aromatic hydrocarbons										
Acenaphthene	mg/kg	230		0.01	<0.01	19	1	18	<0.01	<0.01
Acenaphthylene	mg/kg	180		0.01	<0.01	19	1	18	<0.01	0.01
Anthracene	mg/kg	2400		0.06	<0.02	19	2	17	<0.02	0.05
Benzo(a)anthracene	mg/kg	7		0.22	<0.04	19	2	17	<0.04	0.22
Benzo(a)pyrene	mg/kg	5		0.29	<0.04	19	3	16	<0.04	0.29

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/08021/48	20/08021/3	20/08021/4	20/08021/6	20/08021/9	20/08021/13	20/08021/14	20/08021/18	20/08021/20	20/08021/21
									Client sample ID	TP5	TP6	TP6	TP8	TP17	TP24	TP24	TP30	TP34	TP35
									Depth to top	1.3	0.2	0.8	0.4	0.1	0.3	0.6	0.1	0.5	0.2
									Depth to bottom										
Date sampled	16/09/20	04/09/20	04/09/20	14/09/20	15/09/20	15/09/20	15/09/20	14/09/20	15/09/20	15/09/20									
Benzo(b)fluoranthene	mg/kg	2.6		0.35	<0.05	19	3	16		<0.05		<0.05	<0.05				<0.05	<0.05	<0.05
Benzo(ghi)perylene	mg/kg	310		0.29	<0.05	19	3	16		<0.05		<0.05	<0.05				<0.05	<0.05	<0.05
Benzo(k)fluoranthene	mg/kg	77		0.11	<0.07	19	1	18		<0.07		<0.07	<0.07				<0.07	<0.07	<0.07
Chrysene	mg/kg	15		0.32	<0.06	19	2	17		<0.06		<0.06	<0.06				<0.06	<0.06	<0.06
Dibenzo(ah)anthracene	mg/kg	0.24		0.06	<0.04	19	1	18		<0.04		<0.04	<0.04				<0.04	<0.04	<0.04
Fluoranthene	mg/kg	290		0.47	<0.08	19	2	17		<0.08		<0.08	<0.08				<0.08	<0.08	<0.08
Fluorene	mg/kg	170		0.02	<0.01	19	1	18		<0.01		<0.01	<0.01				<0.01	<0.01	<0.01
Indeno(123-cd)pyrene	mg/kg	27		0.33	<0.03	19	4	15		<0.03		<0.03		0.04			<0.03	<0.03	<0.03
Naphthalene	mg/kg	13			<0.03	19	0	19		<0.03		<0.03	<0.03				<0.03	<0.03	<0.03
Phenanthrene	mg/kg	100		0.19	<0.03	19	2	17		<0.03		<0.03	<0.03				<0.03	<0.03	<0.03
Pyrene	mg/kg	620		0.41	<0.07	19	2	17		<0.07		<0.07	<0.07				<0.07	<0.07	<0.07
Total PAH-16MS	mg/kg			3.1	<0.08	19	3	16		<0.08		<0.08	<0.08				<0.08	<0.08	<0.08
PCBs																			
PCB BZ 101	mg/kg				<0.004	1	0	1											<0.004
PCB BZ 105	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 114	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 118	mg/kg				<0.007	1	0	1											<0.007
PCB BZ 123	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 126	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 138	mg/kg				<0.006	1	0	1											<0.006
PCB BZ 153	mg/kg				<0.004	1	0	1											<0.004
PCB BZ 156	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 157	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 167	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 169	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 180	mg/kg				<0.004	1	0	1											<0.004
PCB BZ 189	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 28	mg/kg				<0.002	1	0	1											<0.002
PCB BZ 52	mg/kg				<0.002	1	0	1											<0.002
PCB BZ 77	mg/kg				<0.005	1	0	1											<0.005
PCB BZ 81	mg/kg				<0.005	1	0	1											<0.005
Other analytes																			
% Stones >10mm	% w/w			43.6	<0.1	32	18	14	2.5	13.5	0.4	3.3	<0.1	11.7	11	<0.1	3.4	<0.1	<0.1
Aldrin	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
alpha-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Ametryn	mg/kg				<0.2	8	0	8						<0.2			<0.2		<0.2
Atraton	mg/kg				<0.2	8	0	8						<0.2			<0.2		<0.2
Atrazine	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Atrazine	mg/kg				<0.2	8	0	8						<0.2			<0.2		<0.2
Azinphos-ethyl	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Azinphos-methyl	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
beta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Carbophenothion	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Chlorfenvinphos	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Chlorothalonil	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Chlorpyrifos	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Chlorpyrifos-methyl	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
cis-Chlordane (Alpha)	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Coumaphos	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
delta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Demeton-O	mg/kg				<0.50	8	0	8						<0.50			<0.50		<0.50
Demeton-S	mg/kg				<0.50	8	0	8						<0.50			<0.50		<0.50
Diazinon (Dimpylate)	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Dichlobenil	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Dichlorvos	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01
Dieldrin	mg/kg				<0.01	8	0	8						<0.01			<0.01		<0.01

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/22	20/08021/25	20/08021/27	20/08021/28	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/51	20/08021/35	
									Client sample ID	TP37	TP41	TP43	TP43	WS2	WS2	WS3	WS4	WS6	WS7	
									Depth to top	0.1	0.4	0.1	1	0.4	2.7	0.5	0.4	1.7	0.3	
									Depth to bottom											
									Date sampled	02/09/20	15/09/20	04/09/20	04/09/20	15/09/20	15/09/20	15/09/20	16/09/20	15/09/20	17/09/20	
Benzo(b)fluoranthene	mg/kg	2.6		0.35	<0.05	19	3	16	0.08	<0.05		0.11		<0.05		<0.05			<0.05	
Benzo(ghi)perylene	mg/kg	310		0.29	<0.05	19	3	16	0.06	<0.05		0.07		<0.05		<0.05			<0.05	
Benzo(k)fluoranthene	mg/kg	77		0.11	<0.07	19	1	18	<0.07	<0.07	<0.07			<0.07		<0.07			<0.07	
Chrysene	mg/kg	15		0.32	<0.06	19	2	17	<0.06	<0.06		0.17		<0.06		<0.06			<0.06	
Dibenzo(ah)anthracene	mg/kg	0.24		0.06	<0.04	19	1	18	<0.04	<0.04	<0.04			<0.04		<0.04			<0.04	
Fluoranthene	mg/kg	290		0.47	<0.08	19	2	17	<0.08	<0.08		0.15		<0.08		<0.08			<0.08	
Fluorene	mg/kg	170		0.02	<0.01	19	1	18	<0.01	<0.01		0.02		<0.01		<0.01			<0.01	
Indeno(123-cd)pyrene	mg/kg	27		0.33	<0.03	19	4	15	0.08	<0.03		0.08		<0.03		<0.03			<0.03	
Naphthalene	mg/kg	13			<0.03	19	0	19	<0.03	<0.03	<0.03			<0.03		<0.03			<0.03	
Phenanthrene	mg/kg	100		0.19	<0.03	19	2	17	<0.03	<0.03		0.19		<0.03		<0.03			<0.03	
Pyrene	mg/kg	620		0.41	<0.07	19	2	17	<0.07	<0.07		0.15		<0.07		<0.07			<0.07	
Total PAH-16MS	mg/kg			3.1	<0.08	19	3	16	0.28	<0.08		1.25		<0.08		<0.08			<0.08	
PCBs																				
PCB BZ 101	mg/kg				<0.004	1	0	1												
PCB BZ 105	mg/kg				<0.005	1	0	1												
PCB BZ 114	mg/kg				<0.005	1	0	1												
PCB BZ 118	mg/kg				<0.007	1	0	1												
PCB BZ 123	mg/kg				<0.005	1	0	1												
PCB BZ 126	mg/kg				<0.005	1	0	1												
PCB BZ 138	mg/kg				<0.006	1	0	1												
PCB BZ 153	mg/kg				<0.004	1	0	1												
PCB BZ 156	mg/kg				<0.005	1	0	1												
PCB BZ 157	mg/kg				<0.005	1	0	1												
PCB BZ 167	mg/kg				<0.005	1	0	1												
PCB BZ 169	mg/kg				<0.005	1	0	1												
PCB BZ 180	mg/kg				<0.004	1	0	1												
PCB BZ 189	mg/kg				<0.005	1	0	1												
PCB BZ 28	mg/kg				<0.002	1	0	1												
PCB BZ 52	mg/kg				<0.002	1	0	1												
PCB BZ 77	mg/kg				<0.005	1	0	1												
PCB BZ 81	mg/kg				<0.005	1	0	1												
Other analytes																				
% Stones >10mm	% w/w			43.6	<0.1	32	18	14	<0.1		12.7	<0.1		43.6	<0.1	3.1	9.1	<0.1	3.6	35.5
Aldrin	mg/kg				<0.01	8	0	8												<0.01
alpha-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8												<0.01
Ametryn	mg/kg				<0.2	8	0	8												<0.2
Atraton	mg/kg				<0.2	8	0	8												<0.2
Atrazine	mg/kg				<0.01	8	0	8												<0.01
Atrazine	mg/kg				<0.2	8	0	8												<0.2
Azinphos-ethyl	mg/kg				<0.01	8	0	8												<0.01
Azinphos-methyl	mg/kg				<0.01	8	0	8												<0.01
beta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8												<0.01
Carbophenothion	mg/kg				<0.01	8	0	8												<0.01
Chlorfenvinphos	mg/kg				<0.01	8	0	8												<0.01
Chlorothalonil	mg/kg				<0.01	8	0	8												<0.01
Chlorpyrifos	mg/kg				<0.01	8	0	8												<0.01
Chlorpyrifos-methyl	mg/kg				<0.01	8	0	8												<0.01
cis-Chlordane (Alpha)	mg/kg				<0.01	8	0	8												<0.01
Coumaphos	mg/kg				<0.01	8	0	8												<0.01
delta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8												<0.01
Demeton-O	mg/kg				<0.50	8	0	8												<0.50
Demeton-S	mg/kg				<0.50	8	0	8												<0.50
Diazinon (Dimpylate)	mg/kg				<0.01	8	0	8												<0.01
Dichlobenil	mg/kg				<0.01	8	0	8												<0.01
Dichlorvos	mg/kg				<0.01	8	0	8												<0.01
Dieldrin	mg/kg				<0.01	8	0	8												<0.01

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/36	20/08021/37	20/08021/52	20/08021/39	20/08021/40	20/08021/41	20/08021/54	20/08021/55	20/08021/42	20/08021/56
									Client sample ID	WS7	WS9	WS9	WS12	WS13	WS14	WS15	WS19	WS21	WS21
									Depth to top	1.8	0.2	1.9	2	0.2	0.2	1.5	0.8	0.2	1.3
									Depth to bottom										
Date sampled	17/09/20	18/09/20	18/09/20	18/09/20	18/09/20	17/09/20	18/09/20	18/09/20	16/09/20	16/09/20									
Benzo(b)fluoranthene	mg/kg	2.6		0.35	<0.05	19	3	16		<0.05				<0.05	<0.05			<0.05	
Benzo(ghi)perylene	mg/kg	310		0.29	<0.05	19	3	16		<0.05				<0.05	<0.05			<0.05	
Benzo(k)fluoranthene	mg/kg	77		0.11	<0.07	19	1	18		<0.07				<0.07	<0.07			<0.07	
Chrysene	mg/kg	15		0.32	<0.06	19	2	17		<0.06				<0.06	<0.06			<0.06	
Dibenzo(ah)anthracene	mg/kg	0.24		0.06	<0.04	19	1	18		<0.04				<0.04	<0.04			<0.04	
Fluoranthene	mg/kg	290		0.47	<0.08	19	2	17		<0.08				<0.08	<0.08			<0.08	
Fluorene	mg/kg	170		0.02	<0.01	19	1	18		<0.01				<0.01	<0.01			<0.01	
Indeno(123-cd)pyrene	mg/kg	27		0.33	<0.03	19	4	15		<0.03				<0.03	<0.03			<0.03	
Naphthalene	mg/kg	13			<0.03	19	0	19		<0.03				<0.03	<0.03			<0.03	
Phenanthrene	mg/kg	100		0.19	<0.03	19	2	17		<0.03				<0.03	<0.03			<0.03	
Pyrene	mg/kg	620		0.41	<0.07	19	2	17		<0.07				<0.07	<0.07			<0.07	
Total PAH-16MS	mg/kg			3.1	<0.08	19	3	16		<0.08				<0.08	<0.08			<0.08	
PCBs																			
PCB BZ 101	mg/kg				<0.004	1	0	1											
PCB BZ 105	mg/kg				<0.005	1	0	1											
PCB BZ 114	mg/kg				<0.005	1	0	1											
PCB BZ 118	mg/kg				<0.007	1	0	1											
PCB BZ 123	mg/kg				<0.005	1	0	1											
PCB BZ 126	mg/kg				<0.005	1	0	1											
PCB BZ 138	mg/kg				<0.006	1	0	1											
PCB BZ 153	mg/kg				<0.004	1	0	1											
PCB BZ 156	mg/kg				<0.005	1	0	1											
PCB BZ 157	mg/kg				<0.005	1	0	1											
PCB BZ 167	mg/kg				<0.005	1	0	1											
PCB BZ 169	mg/kg				<0.005	1	0	1											
PCB BZ 180	mg/kg				<0.004	1	0	1											
PCB BZ 189	mg/kg				<0.005	1	0	1											
PCB BZ 28	mg/kg				<0.002	1	0	1											
PCB BZ 52	mg/kg				<0.002	1	0	1											
PCB BZ 77	mg/kg				<0.005	1	0	1											
PCB BZ 81	mg/kg				<0.005	1	0	1											
Other analytes																			
% Stones >10mm	% w/w			43.6	<0.1	32	18	14	3.4	<0.1		2.1	<0.1		3.3	16.1	<0.1	<0.1	<0.1
Aldrin	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
alpha-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Ametryn	mg/kg				<0.2	8	0	8		<0.2					<0.2				<0.2
Atraton	mg/kg				<0.2	8	0	8		<0.2					<0.2				<0.2
Atrazine	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Atrazine	mg/kg				<0.2	8	0	8		<0.2					<0.2				<0.2
Azinphos-ethyl	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Azinphos-methyl	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
beta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Carbophenothion	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Chlorfenvinphos	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Chlorothalonil	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Chlorpyrifos	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Chlorpyrifos-methyl	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
cis-Chlordane (Alpha)	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Coumaphos	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
delta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Demeton-O	mg/kg				<0.50	8	0	8		<0.50					<0.50				<0.50
Demeton-S	mg/kg				<0.50	8	0	8		<0.50					<0.50				<0.50
Diazinon (Dimpylate)	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Dichlobenil	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Dichlorvos	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01
Dieldrin	mg/kg				<0.01	8	0	8		<0.01					<0.01				<0.01

Lab sample ID	20/08021/43	20/08021/44
Client sample ID	WS23	WS24
Depth to top	0.2	0.2
Depth to bottom		
Date sampled	17/09/20	14/09/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete		
Benzo(b)fluoranthene	mg/kg	2.6		0.35	<0.05	19	3	16	<0.05	0.35
Benzo(ghi)perylene	mg/kg	310		0.29	<0.05	19	3	16	<0.05	0.29
Benzo(k)fluoranthene	mg/kg	77		0.11	<0.07	19	1	18	<0.07	0.11
Chrysene	mg/kg	15		0.32	<0.06	19	2	17	<0.06	0.32
Dibenzo(ah)anthracene	mg/kg	0.24		0.06	<0.04	19	1	18	<0.04	0.06
Fluoranthene	mg/kg	290		0.47	<0.08	19	2	17	<0.08	0.47
Fluorene	mg/kg	170		0.02	<0.01	19	1	18	<0.01	<0.01
Indeno(123-cd)pyrene	mg/kg	27		0.33	<0.03	19	4	15	<0.03	0.33
Naphthalene	mg/kg	13			<0.03	19	0	19	<0.03	<0.03
Phenanthrene	mg/kg	100		0.19	<0.03	19	2	17	<0.03	0.19
Pyrene	mg/kg	620		0.41	<0.07	19	2	17	<0.07	0.41
Total PAH-16MS	mg/kg			3.1	<0.08	19	3	16	<0.08	3.1
PCBs										
PCB BZ 101	mg/kg				<0.004	1	0	1		
PCB BZ 105	mg/kg				<0.005	1	0	1		
PCB BZ 114	mg/kg				<0.005	1	0	1		
PCB BZ 118	mg/kg				<0.007	1	0	1		
PCB BZ 123	mg/kg				<0.005	1	0	1		
PCB BZ 126	mg/kg				<0.005	1	0	1		
PCB BZ 138	mg/kg				<0.006	1	0	1		
PCB BZ 153	mg/kg				<0.004	1	0	1		
PCB BZ 156	mg/kg				<0.005	1	0	1		
PCB BZ 157	mg/kg				<0.005	1	0	1		
PCB BZ 167	mg/kg				<0.005	1	0	1		
PCB BZ 169	mg/kg				<0.005	1	0	1		
PCB BZ 180	mg/kg				<0.004	1	0	1		
PCB BZ 189	mg/kg				<0.005	1	0	1		
PCB BZ 28	mg/kg				<0.002	1	0	1		
PCB BZ 52	mg/kg				<0.002	1	0	1		
PCB BZ 77	mg/kg				<0.005	1	0	1		
PCB BZ 81	mg/kg				<0.005	1	0	1		
Other analytes										
% Stones >10mm	% w/w			43.6	<0.1	32	18	14	<0.1	3
Aldrin	mg/kg				<0.01	8	0	8	<0.01	
alpha-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8	<0.01	
Ametryn	mg/kg				<0.2	8	0	8	<0.2	
Atraton	mg/kg				<0.2	8	0	8	<0.2	
Atrazine	mg/kg				<0.01	8	0	8	<0.01	
Atrazine	mg/kg				<0.2	8	0	8	<0.2	
Azinphos-ethyl	mg/kg				<0.01	8	0	8	<0.01	
Azinphos-methyl	mg/kg				<0.01	8	0	8	<0.01	
beta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8	<0.01	
Carbophenothion	mg/kg				<0.01	8	0	8	<0.01	
Chlorfenvinphos	mg/kg				<0.01	8	0	8	<0.01	
Chlorothalonil	mg/kg				<0.01	8	0	8	<0.01	
Chlorpyrifos	mg/kg				<0.01	8	0	8	<0.01	
Chlorpyrifos-methyl	mg/kg				<0.01	8	0	8	<0.01	
cis-Chlordane (Alpha)	mg/kg				<0.01	8	0	8	<0.01	
Coumaphos	mg/kg				<0.01	8	0	8	<0.01	
delta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8	<0.01	
Demeton-O	mg/kg				<0.50	8	0	8	<0.50	
Demeton-S	mg/kg				<0.50	8	0	8	<0.50	
Diazinon (Dimpylate)	mg/kg				<0.01	8	0	8	<0.01	
Dichlobenil	mg/kg				<0.01	8	0	8	<0.01	
Dichlorvos	mg/kg				<0.01	8	0	8	<0.01	
Dieldrin	mg/kg				<0.01	8	0	8	<0.01	

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/08021/48	20/08021/3	20/08021/4	20/08021/6	20/08021/9	20/08021/13	20/08021/14	20/08021/18	20/08021/20	20/08021/21		
									Client sample ID	TP5	TP6	TP6	TP8	TP17	TP24	TP24	TP30	TP34	TP35		
									Depth to top	1.3	0.2	0.8	0.4	0.1	0.3	0.6	0.1	0.5	0.2		
									Depth to bottom												
Date sampled	16/09/20	04/09/20	04/09/20	14/09/20	15/09/20	15/09/20	15/09/20	14/09/20	15/09/20	15/09/20											
Dimethoate	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Disulfoton	mg/kg				<0.10	8	0	8									<0.10		<0.10		<0.10
Endosulphan I (Alpha)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Endosulphan II (Beta)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Endosulphan Sulphate	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Endrin	mg/kg				<0.18	8	0	8									<0.18		<0.18		<0.18
Endrin Aldehyde	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Endrin Ketone	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Ethion	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Etrimphos	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Fenitrothion	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Fensulphothion	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Fenthion	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Heptachlor	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Heptachlor epoxide	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Hexachlorobenzene (HCB)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Isodrin	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Malathion	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Methyl Parathion	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Mevinphos	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
o,p-DDD (2,4)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
o,p-DDE (2,4)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
o,p-DDT (2,4)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
o,p-Methoxychlor	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
p,p-DDD (4,4)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
p,p-DDE (4,4)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
p,p-DDT (4,4)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
p,p-Methoxychlor	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Parathion (ethyl)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Pendimethalin	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Permethrin I (cis)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Permethrin II (trans)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
pH	pH				8.55	4.49	20	20	0			4.49		6.55	6.81		6.49		6.84	8.1	6.3
pH BRE	pH				8.49	5.27	13	13	0		8.2		5.27				6.7			8.1	
Phorate	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Phosalone	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Pirimiphos-methyl	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Prometon	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Prometryn	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Propazine	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Propetamphos	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Prothiofos (Tokuthion)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Quintozene (PCNB)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Secbumeton	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Simazine	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Simazine	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Simetryn	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Sulprofos	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Tecnazene	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Telodrin	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01
Terbutylazine	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Terbutryn	mg/kg				<0.2	8	0	8									<0.2		<0.2		<0.2
Total Organic Carbon	% w/w				5.62	0.21	20	20	0			1.76		0.21	1.94		1.49		2.08	0.39	1.81
Converted to SOM (x / 0.58)	% w/w				9.689655	0.362069	20	20	0			3.03448276		0.36206897	3.34482759		2.56896552		3.5862069	0.67241379	3.12068966
Total Speciated PCB-EC7 & WHO12	mg/kg				<0.007	1	0	1											<0.007		
trans-Chlordane (Gamma)	mg/kg				<0.01	8	0	8									<0.01		<0.01		<0.01

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/22	20/08021/25	20/08021/27	20/08021/28	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/51	20/08021/35	
									Client sample ID	TP37	TP41	TP43	TP43	WS2	WS2	WS3	WS4	WS6	WS7	
									Depth to top	0.1	0.4	0.1	1	0.4	2.7	0.5	0.4	1.7	0.3	
									Depth to bottom											
Date sampled	02/09/20	15/09/20	04/09/20	04/09/20	15/09/20	15/09/20	15/09/20	16/09/20	15/09/20	17/09/20										
Dimethoate	mg/kg				<0.01	8	0	8											<0.01	
Disulfoton	mg/kg				<0.10	8	0	8											<0.10	
Endosulphan I (Alpha)	mg/kg				<0.01	8	0	8											<0.01	
Endosulphan II (Beta)	mg/kg				<0.01	8	0	8											<0.01	
Endosulphan Sulphate	mg/kg				<0.01	8	0	8											<0.01	
Endrin	mg/kg				<0.18	8	0	8											<0.18	
Endrin Aldehyde	mg/kg				<0.01	8	0	8											<0.01	
Endrin Ketone	mg/kg				<0.01	8	0	8											<0.01	
Ethion	mg/kg				<0.01	8	0	8											<0.01	
Etrimphos	mg/kg				<0.01	8	0	8											<0.01	
Fenitrothion	mg/kg				<0.01	8	0	8											<0.01	
Fensulphothion	mg/kg				<0.01	8	0	8											<0.01	
Fenthion	mg/kg				<0.01	8	0	8											<0.01	
Heptachlor	mg/kg				<0.01	8	0	8											<0.01	
Heptachlor epoxide	mg/kg				<0.01	8	0	8											<0.01	
Hexachlorobenzene (HCB)	mg/kg				<0.01	8	0	8											<0.01	
Isodrin	mg/kg				<0.01	8	0	8											<0.01	
Malathion	mg/kg				<0.01	8	0	8											<0.01	
Methyl Parathion	mg/kg				<0.01	8	0	8											<0.01	
Mevinphos	mg/kg				<0.01	8	0	8											<0.01	
o,p-DDD (2,4)	mg/kg				<0.01	8	0	8											<0.01	
o,p-DDE (2,4)	mg/kg				<0.01	8	0	8											<0.01	
o,p-DDT (2,4)	mg/kg				<0.01	8	0	8											<0.01	
o,p-Methoxychlor	mg/kg				<0.01	8	0	8											<0.01	
p,p-DDD (4,4)	mg/kg				<0.01	8	0	8											<0.01	
p,p-DDE (4,4)	mg/kg				<0.01	8	0	8											<0.01	
p,p-DDT (4,4)	mg/kg				<0.01	8	0	8											<0.01	
p,p-Methoxychlor	mg/kg				<0.01	8	0	8											<0.01	
Parathion (ethyl)	mg/kg				<0.01	8	0	8											<0.01	
Pendimethalin	mg/kg				<0.01	8	0	8											<0.01	
Permethrin I (cis)	mg/kg				<0.01	8	0	8											<0.01	
Permethrin II (trans)	mg/kg				<0.01	8	0	8											<0.01	
pH	pH				8.55	4.49	20	20	0	5.77	5.31	8.55		7.97		7.24		6.29		7.16
pH BRE	pH				8.49	5.27	13	13	0				8.14		8.19				8.12	
Phorate	mg/kg				<0.01	8	0	8											<0.01	
Phosalone	mg/kg				<0.01	8	0	8											<0.01	
Pirimiphos-methyl	mg/kg				<0.01	8	0	8											<0.01	
Prometon	mg/kg				<0.2	8	0	8											<0.2	
Prometryn	mg/kg				<0.2	8	0	8											<0.2	
Propazine	mg/kg				<0.2	8	0	8											<0.2	
Propetamphos	mg/kg				<0.01	8	0	8											<0.01	
Prothiofos (Tokuthion)	mg/kg				<0.01	8	0	8											<0.01	
Quintozene (PCNB)	mg/kg				<0.01	8	0	8											<0.01	
Secbumeton	mg/kg				<0.2	8	0	8											<0.2	
Simazine	mg/kg				<0.01	8	0	8											<0.01	
Simazine	mg/kg				<0.2	8	0	8											<0.2	
Simetryn	mg/kg				<0.2	8	0	8											<0.2	
Sulprofos	mg/kg				<0.01	8	0	8											<0.01	
Tecnazene	mg/kg				<0.01	8	0	8											<0.01	
Telodrin	mg/kg				<0.01	8	0	8											<0.01	
Terbutylazine	mg/kg				<0.2	8	0	8											<0.2	
Terbutryn	mg/kg				<0.2	8	0	8											<0.2	
Total Organic Carbon	% w/w				5.62	0.21	20	20	0	3.29	0.71	0.87		0.22		0.38		0.26		0.35
Converted to SOM (x / 0.58)	% w/w				9.689655	0.362069	20	20	0	5.67241379	1.22413793	1.5		0.37931034		0.65517241		0.44827586		0.60344828
Total Speciated PCB-EC7 & WHO12	mg/kg				<0.007	1	0	1												
trans-Chlordane (Gamma)	mg/kg				<0.01	8	0	8											<0.01	

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/36	20/08021/37	20/08021/52	20/08021/39	20/08021/40	20/08021/41	20/08021/54	20/08021/55	20/08021/42	20/08021/56
									Client sample ID	WS7	WS9	WS9	WS12	WS13	WS14	WS15	WS19	WS21	WS21
									Depth to top	1.8	0.2	1.9	2	0.2	0.2	1.5	0.8	0.2	1.3
									Depth to bottom										
Date sampled	17/09/20	18/09/20	18/09/20	18/09/20	18/09/20	17/09/20	18/09/20	18/09/20	16/09/20	16/09/20									
Dimethoate	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Disulfoton	mg/kg				<0.10	8	0	8		<0.10								<0.10	
Endosulphan I (Alpha)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Endosulphan II (Beta)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Endosulphan Sulphate	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Endrin	mg/kg				<0.18	8	0	8		<0.18								<0.18	
Endrin Aldehyde	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Endrin Ketone	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Ethion	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Etrimphos	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Fenitrothion	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Fensulphothion	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Fenthion	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Heptachlor	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Heptachlor epoxide	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Hexachlorobenzene (HCB)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Isodrin	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Malathion	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Methyl Parathion	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Mevinphos	mg/kg				<0.01	8	0	8		<0.01								<0.01	
o,p-DDD (2,4)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
o,p-DDE (2,4)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
o,p-DDT (2,4)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
o,p-Methoxychlor	mg/kg				<0.01	8	0	8		<0.01								<0.01	
p,p-DDD (4,4)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
p,p-DDE (4,4)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
p,p-DDT (4,4)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
p,p-Methoxychlor	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Parathion (ethyl)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Pendimethalin	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Permethrin I (cis)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
Permethrin II (trans)	mg/kg				<0.01	8	0	8		<0.01								<0.01	
pH	pH			8.55	4.49	20	20	0			6.36			6.86	7.14			6.19	
pH BRE	pH			8.49	5.27	13	13	0	8.26		7.49	8.49				6.4	7.48		7.65
Phorate	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Phosalone	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Pirimiphos-methyl	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Prometon	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Prometryn	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Propazine	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Propetamphos	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Prothiofos (Tokuthion)	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Quintozene (PCNB)	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Secbumeton	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Simazine	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Simazine	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Simetryn	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Sulprofos	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Tecnazene	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Telodrin	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	
Terbutylazine	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Terbutryn	mg/kg				<0.2	8	0	8		<0.2					<0.2			<0.2	
Total Organic Carbon	% w/w			5.62	0.21	20	20	0			1.29			1.05	0.44			1.8	
Converted to SOM (x / 0.58)	% w/w			9.689655	0.362069	20	20	0			2.22413793			1.81034483	0.75862069			3.10344828	
Total Speciated PCB-EC7 & WHO12	mg/kg				<0.007	1	0	1											
trans-Chlordane (Gamma)	mg/kg				<0.01	8	0	8		<0.01					<0.01			<0.01	

Lab sample ID	20/08021/43	20/08021/44
Client sample ID	WS23	WS24
Depth to top	0.2	0.2
Depth to bottom		
Date sampled	17/09/20	14/09/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete		
Dimethoate	mg/kg				<0.01	8	0	8	<0.01	
Disulfoton	mg/kg				<0.10	8	0	8	<0.10	
Endosulphan I (Alpha)	mg/kg				<0.01	8	0	8	<0.01	
Endosulphan II (Beta)	mg/kg				<0.01	8	0	8	<0.01	
Endosulphan Sulphate	mg/kg				<0.01	8	0	8	<0.01	
Endrin	mg/kg				<0.18	8	0	8	<0.18	
Endrin Aldehyde	mg/kg				<0.01	8	0	8	<0.01	
Endrin Ketone	mg/kg				<0.01	8	0	8	<0.01	
Ethion	mg/kg				<0.01	8	0	8	<0.01	
Etrimphos	mg/kg				<0.01	8	0	8	<0.01	
Fenitrothion	mg/kg				<0.01	8	0	8	<0.01	
Fensulphothion	mg/kg				<0.01	8	0	8	<0.01	
Fenthion	mg/kg				<0.01	8	0	8	<0.01	
Heptachlor	mg/kg				<0.01	8	0	8	<0.01	
Heptachlor epoxide	mg/kg				<0.01	8	0	8	<0.01	
Hexachlorobenzene (HCB)	mg/kg				<0.01	8	0	8	<0.01	
Isodrin	mg/kg				<0.01	8	0	8	<0.01	
Malathion	mg/kg				<0.01	8	0	8	<0.01	
Methyl Parathion	mg/kg				<0.01	8	0	8	<0.01	
Mevinphos	mg/kg				<0.01	8	0	8	<0.01	
o,p-DDD (2,4)	mg/kg				<0.01	8	0	8	<0.01	
o,p-DDE (2,4)	mg/kg				<0.01	8	0	8	<0.01	
o,p-DDT (2,4)	mg/kg				<0.01	8	0	8	<0.01	
o,p-Methoxychlor	mg/kg				<0.01	8	0	8	<0.01	
p,p-DDD (4,4)	mg/kg				<0.01	8	0	8	<0.01	
p,p-DDE (4,4)	mg/kg				<0.01	8	0	8	<0.01	
p,p-DDT (4,4)	mg/kg				<0.01	8	0	8	<0.01	
p,p-Methoxychlor	mg/kg				<0.01	8	0	8	<0.01	
Parathion (ethyl)	mg/kg				<0.01	8	0	8	<0.01	
Pendimethalin	mg/kg				<0.01	8	0	8	<0.01	
Permethrin I (cis)	mg/kg				<0.01	8	0	8	<0.01	
Permethrin II (trans)	mg/kg				<0.01	8	0	8	<0.01	
pH	pH			8.55	4.49	20	20	0	6.96	7
pH BRE	pH			8.49	5.27	13	13	0		
Phorate	mg/kg				<0.01	8	0	8	<0.01	
Phosalone	mg/kg				<0.01	8	0	8	<0.01	
Pirimiphos-methyl	mg/kg				<0.01	8	0	8	<0.01	
Prometon	mg/kg				<0.2	8	0	8	<0.2	
Prometryn	mg/kg				<0.2	8	0	8	<0.2	
Propazine	mg/kg				<0.2	8	0	8	<0.2	
Propetamphos	mg/kg				<0.01	8	0	8	<0.01	
Prothiofos (Tokuthion)	mg/kg				<0.01	8	0	8	<0.01	
Quintozene (PCNB)	mg/kg				<0.01	8	0	8	<0.01	
Secbumeton	mg/kg				<0.2	8	0	8	<0.2	
Simazine	mg/kg				<0.01	8	0	8	<0.01	
Simazine	mg/kg				<0.2	8	0	8	<0.2	
Simetryn	mg/kg				<0.2	8	0	8	<0.2	
Sulprofos	mg/kg				<0.01	8	0	8	<0.01	
Tecnazene	mg/kg				<0.01	8	0	8	<0.01	
Telodrin	mg/kg				<0.01	8	0	8	<0.01	
Terbutylazine	mg/kg				<0.2	8	0	8	<0.2	
Terbutryn	mg/kg				<0.2	8	0	8	<0.2	
Total Organic Carbon	% w/w			5.62	0.21	20	20	0	0.75	5.62
Converted to SOM (x / 0.58)	% w/w			9.689655	0.362069	20	20	0	1.29310345	9.68965517
Total Speciated PCB-EC7 & WHO12	mg/kg				<0.007	1	0	1		
trans-Chlordane (Gamma)	mg/kg				<0.01	8	0	8	<0.01	

										Lab sample ID	20/08021/48	20/08021/3	20/08021/4	20/08021/6	20/08021/9	20/08021/13	20/08021/14	20/08021/18	20/08021/20	20/08021/21		
										Client sample ID	TP5	TP6	TP6	TP8	TP17	TP24	TP24	TP30	TP34	TP35		
										Depth to top	1.3	0.2	0.8	0.4	0.1	0.3	0.6	0.1	0.5	0.2		
										Depth to bottom												
										Date sampled	16/09/20	04/09/20	04/09/20	14/09/20	15/09/20	15/09/20	15/09/20	14/09/20	15/09/20	15/09/20		
Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects														
Triadimefon	mg/kg				<0.01	8	0	8										<0.01		<0.01		<0.01
Triallate	mg/kg				<0.01	8	0	8										<0.01		<0.01		<0.01
Triazophos	mg/kg				<0.01	8	0	8										<0.01		<0.01		<0.01
Trichloronate	mg/kg				<0.01	8	0	8										<0.01		<0.01		<0.01
Trifluralin	mg/kg				<0.01	8	0	8										<0.01		<0.01		<0.01

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/22	20/08021/25	20/08021/27	20/08021/28	20/08021/31	20/08021/32	20/08021/33	20/08021/34	20/08021/51	20/08021/35	
									Client sample ID	TP37	TP41	TP43	TP43	WS2	WS2	WS3	WS4	WS6	WS7	
									Depth to top	0.1	0.4	0.1	1	0.4	2.7	0.5	0.4	1.7	0.3	
									Depth to bottom											
									Date sampled	02/09/20	15/09/20	04/09/20	04/09/20	15/09/20	15/09/20	15/09/20	16/09/20	15/09/20	17/09/20	
Triadimefon	mg/kg				<0.01	8	0	8											<0.01	
Triallate	mg/kg				<0.01	8	0	8											<0.01	
Triazophos	mg/kg				<0.01	8	0	8											<0.01	
Trichloronate	mg/kg				<0.01	8	0	8											<0.01	
Trifluralin	mg/kg				<0.01	8	0	8											<0.01	

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/36	20/08021/37	20/08021/52	20/08021/39	20/08021/40	20/08021/41	20/08021/54	20/08021/55	20/08021/42	20/08021/56
									Client sample ID	WS7	WS9	WS9	WS12	WS13	WS14	WS15	WS19	WS21	WS21
									Depth to top	1.8	0.2	1.9	2	0.2	0.2	1.5	0.8	0.2	1.3
									Depth to bottom										
									Date sampled	17/09/20	18/09/20	18/09/20	18/09/20	18/09/20	17/09/20	18/09/20	18/09/20	16/09/20	16/09/20
Triadimefon	mg/kg				<0.01	8	0	8							<0.01			<0.01	
Triallate	mg/kg				<0.01	8	0	8							<0.01			<0.01	
Triazophos	mg/kg				<0.01	8	0	8							<0.01			<0.01	
Trichloronate	mg/kg				<0.01	8	0	8							<0.01			<0.01	
Trifluralin	mg/kg				<0.01	8	0	8							<0.01			<0.01	


Lab sample ID	20/08021/43	20/08021/44
Client sample ID	WS23	WS24
Depth to top	0.2	0.2
Depth to bottom		
Date sampled	17/09/20	14/09/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete		
Triadimefon	mg/kg				<0.01	8	0	8	<0.01	
Triallate	mg/kg				<0.01	8	0	8	<0.01	
Triazophos	mg/kg				<0.01	8	0	8	<0.01	
Trichloronate	mg/kg				<0.01	8	0	8	<0.01	
Trifluralin	mg/kg				<0.01	8	0	8	<0.01	



APPENDIX P

GQRA DATA SCREENING TABLES – ZONE B

Project name	Brown's Lane - Zone B	Notes	
Project code	252332		
Client name	Coventry City Council		
Address			
NGR			
Land use	Public Open Space in close proximity to residential housing		
SOM	1%		
GAC version	2019_00		

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/08021/46	20/08021/47	20/08021/1	20/08021/2	20/08021/5	20/08021/7	20/08021/8	20/08021/10	20/08021/11	20/08021/12	
									Client sample ID	BH1	BH2	SA1	TP3	TP7	TP15	TP16	TP19	TP22	TP22	
									Depth to top	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.3	0.3	2	
									Depth to bottom											
									Date sampled	17/09/20	17/09/20	16/09/20	14/09/20	04/09/20	03/09/20	14/09/20	03/09/20	03/09/20	03/09/20	
Metals and Inorganics																				
Arsenic	mg/kg	79		176	<1	17	8	9	<1	<1	<1	<1	<1	2	<1	2	<1	<1		
Cadmium	mg/kg	220		146	<0.5	17	7	10	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.8	<0.5	<0.5			
Chromium	mg/kg	1540	21	164	14	17	17	0	20	19	16	22	14	23	26	22		19		
Chromium (hexavalent)	mg/kg	21		<1		17	0	17	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Copper	mg/kg	12000		92	11	17	17	0	15	13	11	16	15	13	22	15	11			
Lead	mg/kg	630		495	12	17	17	0	56	27	23	36	41	17	47	31	27			
Mercury	mg/kg	120	16	6.6	<0.17	17	4	13	0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		
Nickel	mg/kg	230		149	11	17	17	0	18	15	13	15	11	17	22	17	14			
Selenium	mg/kg	1100		154	<1	17	1	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Zinc	mg/kg	81000		479	40	17	17	0	62	50	44	54	51	51	78	61	47			
Asbestos																				
Asbestos in soil						17	0	17	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD		
Petroleum Hydrocarbons																				
Ali >C5-C6	mg/kg	570000	304	<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Ali >C6-C8	mg/kg	600000		<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Ali >C8-C10	mg/kg	13000		<1		16	0	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Ali >C10-C12	mg/kg	13000		<1		16	0	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Ali >C12-C16	mg/kg	13000		<1		16	0	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Ali >C16-C21	mg/kg			2	<1	16	1	15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Ali >C21-C35	mg/kg			36	<1	16	10	6	2	<1		2	1	5	<1	4	3		<1	
Ali >C16-C35 calculated	mg/kg	250000		38	<1	16	10	6	2	<1		2	1	5	<1	4	3		<1	
Total Aliphatics	mg/kg			38	<1	16	10	6	2	<1		2	1	5	<1	4	3		<1	
Aro >C5-C7	mg/kg			<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aro >C7-C8	mg/kg			<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Aro >C8-C10	mg/kg	5000		1	<1	16	1	15	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Aro >C10-C12	mg/kg	5000		<1		16	0	16	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Aro >C12-C16	mg/kg	5000		5	<1	16	2	14	<1	<1	<1	<1	<1	<1	<1		3		<1	
Aro >C16-C21	mg/kg	3800		17	<1	16	4	12	<1	<1	<1	<1	<1	<1		5	2		<1	
Aro >C21-C35	mg/kg	3800		101	<1	16	13	3	7	4	3	2	10	<1	22	8			<1	
Total Aromatics	mg/kg			124	<1	16	13	3	7	4	3	2	10	<1	27	14			<1	
TPH (Ali & Aro)	mg/kg			162	<1	16	13	3	10	4	5	3	15	<1	31	17			<1	
BTEX - Benzene	mg/kg	140		<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
BTEX - Toluene	mg/kg	55700		<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
BTEX - Ethyl Benzene	mg/kg	23900		<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
BTEX - o Xylene	mg/kg	41000		<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
BTEX - m & p Xylene	mg/kg	40800		<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
MTBE	mg/kg	74600		<0.01		16	0	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Polycyclic aromatic hydrocarbons																				
Acenaphthene	mg/kg	14800		0.02	<0.01	17	1	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthylene	mg/kg	14800		0.06	<0.01	17	1	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Anthracene	mg/kg	74100		0.07	<0.02	17	1	16	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Benzo(a)anthracene	mg/kg	29		0.38	<0.04	17	3	14	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	<0.04	<0.04	
Benzo(a)pyrene	mg/kg	10		0.76	<0.04	17	3	14	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.11	<0.04	<0.04	<0.04	

Project name	Brown's Lane - Zone B										
Project code	252332										
Client name	Coventry City Council										
Address											
NGR											
Land use	Public Open Space in close proximity to residential housing										
SOM	1%										
GAC version	2019_00										

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/19	20/08021/49	20/08021/23	20/08021/24	20/08021/26	20/08021/29	20/08021/30
									Client sample ID	TP25	TP26	TP27	TP33	TP38	TP39	TP40	TP42	TP44	TP47
									Depth to top	0.25	1.8	0.3	0.1	1.4	0.3	0.3	0.3	0.1	0.05
									Depth to bottom										
									Date sampled	04/09/20	03/09/20	03/09/20	03/09/20	02/09/20	02/09/20	03/09/20	02/09/20	02/09/20	02/09/20
Metals and Inorganics																			
Arsenic	mg/kg	79		176	<1	17	8	9	2	<1			2		<1	176		7	2
Cadmium	mg/kg	220		146	<0.5	17	7	10	<0.5			<0.5	0.6		<0.5	146		1.6	0.7
Chromium	mg/kg	1540	21	164	14	17	17	0	20			23	26		18	164		23	23
Chromium (hexavalent)	mg/kg	21			<1	17	0	17	<1			<1	<1		<1	<1		<1	<1
Copper	mg/kg	12000		92	11	17	17	0	15			11	16		11	92		50	23
Lead	mg/kg	630		495	12	17	17	0	35			24	31		20	154		131	495
Mercury	mg/kg	120	16	6.6	<0.17	17	4	13	<0.17			<0.17	<0.17		<0.17	6.6		0.38	0.27
Nickel	mg/kg	230		149	11	17	17	0	14			16	17		13	149		29	19
Selenium	mg/kg	1100		154	<1	17	1	16	<1			<1	<1		<1	154		<1	<1
Zinc	mg/kg	81000		479	40	17	17	0	61			53	71		53	183		479	106
Asbestos																			
Asbestos in soil						17	0	17	NAD			NAD	NAD		NAD	NAD		NAD	NAD
Petroleum Hydrocarbons																			
Ali >C5-C6	mg/kg	570000	304		<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
Ali >C6-C8	mg/kg	600000			<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
Ali >C8-C10	mg/kg	13000			<1	16	0	16				<1	<1		<1	<1		<1	<1
Ali >C10-C12	mg/kg	13000			<1	16	0	16				<1	<1		<1	<1		<1	<1
Ali >C12-C16	mg/kg	13000			<1	16	0	16				<1	<1		<1	<1		<1	<1
Ali >C16-C21	mg/kg				2	<1	16	1	15			<1	<1		<1	<1		2	<1
Ali >C21-C35	mg/kg				36	<1	16	10	6			<1		7		6	<1	36	5
Ali >C16-C35 calculated	mg/kg	250000			38	<1	16	10	6			<1		7		6	<1	38	5
Total Aliphatics	mg/kg				38	<1	16	10	6			<1		7		6	<1	38	5
Aro >C5-C7	mg/kg				<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
Aro >C7-C8	mg/kg				<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
Aro >C8-C10	mg/kg	5000			1	<1	16	1	15			<1	<1		<1	<1		1	<1
Aro >C10-C12	mg/kg	5000			<1	16	0	16				<1	<1		<1	<1		<1	<1
Aro >C12-C16	mg/kg	5000			5	<1	16	2	14			<1	<1		<1	<1		5	<1
Aro >C16-C21	mg/kg	3800			17	<1	16	4	12			<1	<1		<1	<1		17	3
Aro >C21-C35	mg/kg	3800			101	<1	16	13	3			2	10		3	<1		101	13
Total Aromatics	mg/kg				124	<1	16	13	3			2	10		3	<1		124	15
TPH (Ali & Aro)	mg/kg				162	<1	16	13	3			2	17		9	<1		162	20
BTEX - Benzene	mg/kg	140			<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - Toluene	mg/kg	55700			<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - Ethyl Benzene	mg/kg	23900			<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - o Xylene	mg/kg	41000			<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
BTEX - m & p Xylene	mg/kg	40800			<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
MTBE	mg/kg	74600			<0.01	16	0	16				<0.01	<0.01		<0.01	<0.01		<0.01	<0.01
Polycyclic aromatic hydrocarbons																			
Acenaphthene	mg/kg	14800			0.02	<0.01	17	1	16	<0.01		<0.01	<0.01		<0.01	<0.01		0.02	<0.01
Acenaphthylene	mg/kg	14800			0.06	<0.01	17	1	16	<0.01		<0.01	<0.01		<0.01	<0.01		0.06	<0.01
Anthracene	mg/kg	74100			0.07	<0.02	17	1	16	<0.02		<0.02	<0.02		<0.02	<0.02		0.07	<0.02
Benzo(a)anthracene	mg/kg	29			0.38	<0.04	17	3	14	<0.04		<0.04	<0.04		<0.04	<0.04		0.38	0.05
Benzo(a)pyrene	mg/kg	10			0.76	<0.04	17	3	14	<0.04		<0.04	<0.04		<0.04	<0.04		0.76	0.08

Project name	Brown's Lane - Zone B
Project code	252332
Client name	Coventry City Council
Address	
NGR	
Land use	Public Open Space in close proximity to residential housing
SOM	1%
GAC version	2019_00

Lab sample ID	20/08021/50	20/08021/38	20/08021/53	20/08021/45	20/08021/57
Client sample ID	WS1	WS11	WS11	WS25	WS25
Depth to top	0.5	0.4	1.7	2.6	1.6
Depth to bottom					
Date sampled	16/09/20	14/09/20	14/09/20	14/09/20	14/09/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete					
Metals and Inorganics													
Arsenic	mg/kg	79		176	<1	17	8	9				4	
Cadmium	mg/kg	220		146	<0.5	17	7	10				0.5	
Chromium	mg/kg	1540	21	164	14	17	17	0				23	
Chromium (hexavalent)	mg/kg	21			<1	17	0	17				<1	
Copper	mg/kg	12000		92	11	17	17	0				13	
Lead	mg/kg	630		495	12	17	17	0				12	
Mercury	mg/kg	120	16	6.6	<0.17	17	4	13				<0.17	
Nickel	mg/kg	230		149	11	17	17	0				18	
Selenium	mg/kg	1100		154	<1	17	1	16				<1	
Zinc	mg/kg	81000		479	40	17	17	0				40	
Asbestos													
Asbestos in soil						17	0	17				NAD	
Petroleum Hydrocarbons													
Ali >C5-C6	mg/kg	570000	304		<0.01	16	0	16				<0.01	
Ali >C6-C8	mg/kg	600000			<0.01	16	0	16				<0.01	
Ali >C8-C10	mg/kg	13000			<1	16	0	16				<1	
Ali >C10-C12	mg/kg	13000			<1	16	0	16				<1	
Ali >C12-C16	mg/kg	13000			<1	16	0	16				<1	
Ali >C16-C21	mg/kg			2	<1	16	1	15				<1	
Ali >C21-C35	mg/kg			36	<1	16	10	6				<1	
Ali >C16-C35 calculated	mg/kg	250000		38	<1	16	10	6				<1	
Total Aliphatics	mg/kg			38	<1	16	10	6				<1	
Aro >C5-C7	mg/kg				<0.01	16	0	16				<0.01	
Aro >C7-C8	mg/kg				<0.01	16	0	16				<0.01	
Aro >C8-C10	mg/kg	5000		1	<1	16	1	15				<1	
Aro >C10-C12	mg/kg	5000			<1	16	0	16				<1	
Aro >C12-C16	mg/kg	5000		5	<1	16	2	14				<1	
Aro >C16-C21	mg/kg	3800		17	<1	16	4	12				<1	
Aro >C21-C35	mg/kg	3800		101	<1	16	13	3				3	
Total Aromatics	mg/kg			124	<1	16	13	3				3	
TPH (Ali & Aro)	mg/kg			162	<1	16	13	3				4	
BTEX - Benzene	mg/kg	140			<0.01	16	0	16				<0.01	
BTEX - Toluene	mg/kg	55700			<0.01	16	0	16				<0.01	
BTEX - Ethyl Benzene	mg/kg	23900			<0.01	16	0	16				<0.01	
BTEX - o Xylene	mg/kg	41000			<0.01	16	0	16				<0.01	
BTEX - m & p Xylene	mg/kg	40800			<0.01	16	0	16				<0.01	
MTBE	mg/kg	74600			<0.01	16	0	16				<0.01	
Polycyclic aromatic hydrocarbons													
Acenaphthene	mg/kg	14800		0.02	<0.01	17	1	16				<0.01	
Acenaphthylene	mg/kg	14800		0.06	<0.01	17	1	16				<0.01	
Anthracene	mg/kg	74100		0.07	<0.02	17	1	16				<0.02	
Benzo(a)anthracene	mg/kg	29		0.38	<0.04	17	3	14				<0.04	
Benzo(a)pyrene	mg/kg	10		0.76	<0.04	17	3	14				<0.04	

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/08021/46	20/08021/47	20/08021/1	20/08021/2	20/08021/5	20/08021/7	20/08021/8	20/08021/10	20/08021/11	20/08021/12
									Client sample ID	BH1	BH2	SA1	TP3	TP7	TP15	TP16	TP19	TP22	TP22
									Depth to top	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.3	0.3	2
									Depth to bottom										
									Date sampled	17/09/20	17/09/20	16/09/20	14/09/20	04/09/20	03/09/20	14/09/20	03/09/20	03/09/20	03/09/20
Benzo(b)fluoranthene	mg/kg		7	0.86	<0.05	17	3	14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	<0.05	<0.05	
Benzo(ghi)perylene	mg/kg		640	0.76	<0.05	17	3	14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	
Benzo(k)fluoranthene	mg/kg		190	0.28	<0.07	17	1	16	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	
Chrysene	mg/kg		57	0.67	<0.06	17	3	14	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.09	<0.06	<0.06	
Dibenzo(ah)anthracene	mg/kg		0.57	0.12	<0.04	17	1	16	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
Fluoranthene	mg/kg		3100	0.93	<0.08	17	3	14	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.11	<0.08	<0.08	
Fluorene	mg/kg		9900	0.02	<0.01	17	1	16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Indeno(123-cd)pyrene	mg/kg		82	0.95	<0.03	17	6	11	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.11	<0.03	<0.03	
Naphthalene	mg/kg		4900		<0.03	17	0	17	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Phenanthrene	mg/kg		3100	0.44	<0.03	17	2	15	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Pyrene	mg/kg		7400	0.83	<0.07	17	3	14	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.11	<0.07	<0.07	
Total PAH-16MS	mg/kg			7.15	<0.08	17	3	14	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.8	<0.08	<0.08	
PCBs																			
PCB BZ 101	mg/kg					0	0	0											
PCB BZ 105	mg/kg					0	0	0											
PCB BZ 114	mg/kg					0	0	0											
PCB BZ 118	mg/kg					0	0	0											
PCB BZ 123	mg/kg					0	0	0											
PCB BZ 126	mg/kg					0	0	0											
PCB BZ 138	mg/kg					0	0	0											
PCB BZ 153	mg/kg					0	0	0											
PCB BZ 156	mg/kg					0	0	0											
PCB BZ 157	mg/kg					0	0	0											
PCB BZ 167	mg/kg					0	0	0											
PCB BZ 169	mg/kg					0	0	0											
PCB BZ 180	mg/kg					0	0	0											
PCB BZ 189	mg/kg					0	0	0											
PCB BZ 28	mg/kg					0	0	0											
PCB BZ 52	mg/kg					0	0	0											
PCB BZ 77	mg/kg					0	0	0											
PCB BZ 81	mg/kg					0	0	0											
Other analytes																			
% Stones >10mm	% w/w			14.4	<0.1	25	13	12	0.7	1.6	14.4	<0.1	<0.1	4.1	<0.1	<0.1	4.8	<0.1	
Aldrin	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
alpha-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Ametryn	mg/kg				<0.2	8	0	8				<0.2	<0.2				<0.2	<0.2	
Atraton	mg/kg				<0.2	8	0	8				<0.2	<0.2				<0.2	<0.2	
Atrazine	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Atrazine	mg/kg				<0.2	8	0	8				<0.2	<0.2				<0.2	<0.2	
Azinphos-ethyl	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Azinphos-methyl	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
beta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Carbophenothion	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Chlorfenvinphos	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Chlorothalonil	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Chlorpyrifos	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Chlorpyrifos-methyl	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
cis-Chlordane (Alpha)	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Coumaphos	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
delta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Demeton-O	mg/kg				<0.50	8	0	8				<0.50	<0.50				<0.50	<0.50	
Demeton-S	mg/kg				<0.50	8	0	8				<0.50	<0.50				<0.50	<0.50	
Diazinon (Dimpylate)	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Dichlobenil	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Dichlorvos	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	
Dieldrin	mg/kg				<0.01	8	0	8				<0.01	<0.01				<0.01	<0.01	

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/19	20/08021/49	20/08021/23	20/08021/24	20/08021/26	20/08021/29	20/08021/30	
									Client sample ID	TP25	TP26	TP27	TP33	TP38	TP39	TP40	TP42	TP44	TP47	
									Depth to top	0.25	1.8	0.3	0.1	1.4	0.3	0.3	0.3	0.1	0.05	
									Depth to bottom											
									Date sampled	04/09/20	03/09/20	03/09/20	03/09/20	02/09/20	02/09/20	03/09/20	02/09/20	02/09/20	02/09/20	
Benzo(b)fluoranthene	mg/kg		7	0.86	<0.05	17	3	14	<0.05		<0.05	<0.05		<0.05	<0.05			0.86	0.09	
Benzo(ghi)perylene	mg/kg		640	0.76	<0.05	17	3	14	<0.05		<0.05	<0.05		<0.05	<0.05			0.76	0.08	
Benzo(k)fluoranthene	mg/kg		190	0.28	<0.07	17	1	16	<0.07		<0.07	<0.07		<0.07	<0.07			0.28	<0.07	
Chrysene	mg/kg		57	0.67	<0.06	17	3	14	<0.06		<0.06	<0.06		<0.06	<0.06			0.67	0.09	
Dibenzo(ah)anthracene	mg/kg		0.57	0.12	<0.04	17	1	16	<0.04		<0.04	<0.04		<0.04	<0.04			0.12	<0.04	
Fluoranthene	mg/kg		3100	0.93	<0.08	17	3	14	<0.08		<0.08	<0.08		<0.08	<0.08			0.93	0.1	
Fluorene	mg/kg		9900	0.02	<0.01	17	1	16	<0.01		<0.01	<0.01		<0.01	<0.01			0.02	<0.01	
Indeno(123-cd)pyrene	mg/kg		82	0.95	<0.03	17	6	11		0.04	<0.03		0.05	<0.03	<0.03			0.95	0.09	
Naphthalene	mg/kg		4900		<0.03	17	0	17	<0.03		<0.03	<0.03		<0.03	<0.03		<0.03		<0.03	
Phenanthrene	mg/kg		3100	0.44	<0.03	17	2	15	<0.03		<0.03	<0.03		<0.03	<0.03			0.44	0.04	
Pyrene	mg/kg		7400	0.83	<0.07	17	3	14	<0.07		<0.07	<0.07		<0.07	<0.07			0.83	0.1	
Total PAH-16MS	mg/kg			7.15	<0.08	17	3	14	<0.08		<0.08	<0.08		<0.08	<0.08			7.15	0.72	
PCBs																				
PCB BZ 101	mg/kg					0	0	0												
PCB BZ 105	mg/kg					0	0	0												
PCB BZ 114	mg/kg					0	0	0												
PCB BZ 118	mg/kg					0	0	0												
PCB BZ 123	mg/kg					0	0	0												
PCB BZ 126	mg/kg					0	0	0												
PCB BZ 138	mg/kg					0	0	0												
PCB BZ 153	mg/kg					0	0	0												
PCB BZ 156	mg/kg					0	0	0												
PCB BZ 157	mg/kg					0	0	0												
PCB BZ 167	mg/kg					0	0	0												
PCB BZ 169	mg/kg					0	0	0												
PCB BZ 180	mg/kg					0	0	0												
PCB BZ 189	mg/kg					0	0	0												
PCB BZ 28	mg/kg					0	0	0												
PCB BZ 52	mg/kg					0	0	0												
PCB BZ 77	mg/kg					0	0	0												
PCB BZ 81	mg/kg					0	0	0												
Other analytes																				
% Stones >10mm	% w/w			14.4	<0.1	25	13	12	2.4	3.5	<0.1	<0.1	2.3	1.1	<0.1	<0.1	7.3	0.4		
Aldrin	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
alpha-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Ametryn	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2	<0.2		
Atraton	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2	<0.2		
Atrazine	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Atrazine	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2	<0.2		
Azinphos-ethyl	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Azinphos-methyl	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
beta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Carbophenothion	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Chlorfenvinphos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Chlorothalonil	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Chlorpyrifos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Chlorpyrifos-methyl	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
cis-Chlordane (Alpha)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Coumaphos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
delta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Demeton-O	mg/kg				<0.50	8	0	8	<0.50		<0.50	<0.50					<0.50	<0.50		
Demeton-S	mg/kg				<0.50	8	0	8	<0.50		<0.50	<0.50					<0.50	<0.50		
Diazinon (Dimpylate)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Dichlobenil	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Dichlorvos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		
Dieldrin	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01	<0.01		

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/50	20/08021/38	20/08021/53	20/08021/45	20/08021/57
									Client sample ID	WS1	WS11	WS11	WS25	WS25
									Depth to top	0.5	0.4	1.7	2.6	1.6
									Depth to bottom					
									Date sampled	16/09/20	14/09/20	14/09/20	14/09/20	14/09/20
Benzo(b)fluoranthene	mg/kg	7		0.86	<0.05	17	3	14		<0.05				
Benzo(ghi)perylene	mg/kg	640		0.76	<0.05	17	3	14		<0.05				
Benzo(k)fluoranthene	mg/kg	190		0.28	<0.07	17	1	16		<0.07				
Chrysene	mg/kg	57		0.67	<0.06	17	3	14		<0.06				
Dibenzo(ah)anthracene	mg/kg	0.57		0.12	<0.04	17	1	16		<0.04				
Fluoranthene	mg/kg	3100		0.93	<0.08	17	3	14		<0.08				
Fluorene	mg/kg	9900		0.02	<0.01	17	1	16		<0.01				
Indeno(123-cd)pyrene	mg/kg	82		0.95	<0.03	17	6	11		<0.03				
Naphthalene	mg/kg	4900			<0.03	17	0	17		<0.03				
Phenanthrene	mg/kg	3100		0.44	<0.03	17	2	15		<0.03				
Pyrene	mg/kg	7400		0.83	<0.07	17	3	14		<0.07				
Total PAH-16MS	mg/kg			7.15	<0.08	17	3	14		<0.08				
PCBs														
PCB BZ 101	mg/kg					0	0	0						
PCB BZ 105	mg/kg					0	0	0						
PCB BZ 114	mg/kg					0	0	0						
PCB BZ 118	mg/kg					0	0	0						
PCB BZ 123	mg/kg					0	0	0						
PCB BZ 126	mg/kg					0	0	0						
PCB BZ 138	mg/kg					0	0	0						
PCB BZ 153	mg/kg					0	0	0						
PCB BZ 156	mg/kg					0	0	0						
PCB BZ 157	mg/kg					0	0	0						
PCB BZ 167	mg/kg					0	0	0						
PCB BZ 169	mg/kg					0	0	0						
PCB BZ 180	mg/kg					0	0	0						
PCB BZ 189	mg/kg					0	0	0						
PCB BZ 28	mg/kg					0	0	0						
PCB BZ 52	mg/kg					0	0	0						
PCB BZ 77	mg/kg					0	0	0						
PCB BZ 81	mg/kg					0	0	0						
Other analytes														
% Stones >10mm	% w/w			14.4	<0.1	25	13	12	<0.1	12.9	<0.1	<0.1		0.6
Aldrin	mg/kg				<0.01	8	0	8						
alpha-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8						
Ametryn	mg/kg				<0.2	8	0	8						
Atraton	mg/kg				<0.2	8	0	8						
Atrazine	mg/kg				<0.01	8	0	8						
Atrazine	mg/kg				<0.2	8	0	8						
Azinphos-ethyl	mg/kg				<0.01	8	0	8						
Azinphos-methyl	mg/kg				<0.01	8	0	8						
beta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8						
Carbophenothion	mg/kg				<0.01	8	0	8						
Chlorfenvinphos	mg/kg				<0.01	8	0	8						
Chlorothalonil	mg/kg				<0.01	8	0	8						
Chlorpyrifos	mg/kg				<0.01	8	0	8						
Chlorpyrifos-methyl	mg/kg				<0.01	8	0	8						
cis-Chlordane (Alpha)	mg/kg				<0.01	8	0	8						
Coumaphos	mg/kg				<0.01	8	0	8						
delta-Hexachlorocyclohexane (HCH)	mg/kg				<0.01	8	0	8						
Demeton-O	mg/kg				<0.50	8	0	8						
Demeton-S	mg/kg				<0.50	8	0	8						
Diazinon (Dimpylate)	mg/kg				<0.01	8	0	8						
Dichlobenil	mg/kg				<0.01	8	0	8						
Dichlorvos	mg/kg				<0.01	8	0	8						
Dieldrin	mg/kg				<0.01	8	0	8						

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/08021/46	20/08021/47	20/08021/1	20/08021/2	20/08021/5	20/08021/7	20/08021/8	20/08021/10	20/08021/11	20/08021/12	
									Client sample ID	BH1	BH2	SA1	TP3	TP7	TP15	TP16	TP19	TP22	TP22	
									Depth to top	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.3	0.3	2	
									Depth to bottom											
									Date sampled	17/09/20	17/09/20	16/09/20	14/09/20	04/09/20	03/09/20	14/09/20	03/09/20	03/09/20	03/09/20	
Dimethoate	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Disulfoton	mg/kg				<0.10	8	0	8					<0.10	<0.10			<0.10			
Endosulphan I (Alpha)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Endosulphan II (Beta)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Endosulphan Sulphate	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Endrin	mg/kg				<0.18	8	0	8					<0.18	<0.18			<0.18			
Endrin Aldehyde	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Endrin Ketone	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Ethion	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Etrimphos	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Fenitrothion	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Fensulphothion	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Fenthion	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Heptachlor	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Heptachlor epoxide	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Hexachlorobenzene (HCB)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Isodrin	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Malathion	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Methyl Parathion	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Mevinphos	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
o,p-DDD (2,4)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
o,p-DDE (2,4)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
o,p-DDT (2,4)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
o,p-Methoxychlor	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
p,p-DDD (4,4)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
p,p-DDE (4,4)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
p,p-DDT (4,4)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
p,p-Methoxychlor	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Parathion (ethyl)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Pendimethalin	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Permethrin I (cis)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Permethrin II (trans)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
pH	pH			7.55	4.73	17	17	0	6.68	6.5	5.79	6.27	4.73	6	7.55	6.81	6.31			
pH BRE	pH			8.31	6.81	7	7	0								6.81				
Phorate	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Phosalone	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Pirimiphos-methyl	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Prometon	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Prometryn	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Propazine	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Propetamphos	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Prothiofos (Tokuthion)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Quintozene (PCNB)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Secbumeton	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Simazine	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Simazine	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Simetryn	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Sulprofos	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Tecnazene	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Telodrin	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			
Terbutylazine	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Terbutryn	mg/kg				<0.2	8	0	8					<0.2	<0.2			<0.2			
Total Organic Carbon	% w/w			5.05	0.24	17	17	0	1.9	0.84	1.33	1.25	2.53	0.88	2.16	1.76	0.96			
Converted to SOM (x / 0.58)	% w/w			8.706897	0.413793	17	17	0	3.27586207	1.44827586	2.29310345	2.15517241	4.36206897	1.51724138	3.72413793	3.03448276	1.65517241			
Total Speciated PCB-EC7 & WHO12	mg/kg					0	0	0												
trans-Chlordane (Gamma)	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01			

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/19	20/08021/49	20/08021/23	20/08021/24	20/08021/26	20/08021/29	20/08021/30	
									Client sample ID	TP25	TP26	TP27	TP33	TP38	TP39	TP40	TP42	TP44	TP47	
									Depth to top	0.25	1.8	0.3	0.1	1.4	0.3	0.3	0.3	0.3	0.1	0.05
									Depth to bottom											
Date sampled	04/09/20	03/09/20	03/09/20	03/09/20	02/09/20	02/09/20	03/09/20	02/09/20	02/09/20	02/09/20	02/09/20									
Dimethoate	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Disulfoton	mg/kg				<0.10	8	0	8	<0.10		<0.10	<0.10					<0.10		<0.10	
Endosulphan I (Alpha)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Endosulphan II (Beta)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Endosulphan Sulphate	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Endrin	mg/kg				<0.18	8	0	8	<0.18		<0.18	<0.18					<0.18		<0.18	
Endrin Aldehyde	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Endrin Ketone	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Ethion	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Etrimphos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Fenitrothion	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Fensulphothion	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Fenthion	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Heptachlor	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Heptachlor epoxide	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Hexachlorobenzene (HCB)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Isodrin	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Malathion	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Methyl Parathion	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Mevinphos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
o,p-DDD (2,4)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
o,p-DDE (2,4)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
o,p-DDT (2,4)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
o,p-Methoxychlor	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
p,p-DDD (4,4)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
p,p-DDE (4,4)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
p,p-DDT (4,4)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
p,p-Methoxychlor	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Parathion (ethyl)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Pendimethalin	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Permethrin I (cis)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Permethrin II (trans)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
pH	pH			7.55	4.73	17	17	0	5.88		6.56	5.66			4.77	6.19		6.72	6.19	
pH BRE	pH			8.31	6.81	7	7	0		8.31			8.26							
Phorate	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Phosalone	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Pirimiphos-methyl	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Prometon	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Prometryn	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Propazine	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Propetamphos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Prothiofos (Tokuthion)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Quintozene (PCNB)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Secbumeton	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Simazine	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Simazine	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Simetryn	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Sulprofos	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Tecnazene	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Telodrin	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	
Terbutylazine	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Terbutryn	mg/kg				<0.2	8	0	8	<0.2		<0.2	<0.2					<0.2		<0.2	
Total Organic Carbon	% w/w			5.05	0.24	17	17	0	2.16		1.1	2.83			1.25	0.77		5.05	3.53	
Converted to SOM (x / 0.58)	% w/w			8.706897	0.413793	17	17	0	3.72413793		1.89655172	4.87931034			2.15517241	1.32758621		8.70689655	6.0862069	
Total Speciated PCB-EC7 & WHO12	mg/kg					0	0	0												
trans-Chlordane (Gamma)	mg/kg				<0.01	8	0	8	<0.01		<0.01	<0.01					<0.01		<0.01	


Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/50	20/08021/38	20/08021/53	20/08021/45	20/08021/57
									Client sample ID	WS1	WS11	WS11	WS25	WS25
									Depth to top	0.5	0.4	1.7	2.6	1.6
									Depth to bottom					
									Date sampled	16/09/20	14/09/20	14/09/20	14/09/20	14/09/20
Dimethoate	mg/kg				<0.01	8	0	8						
Disulfoton	mg/kg				<0.10	8	0	8						
Endosulphan I (Alpha)	mg/kg				<0.01	8	0	8						
Endosulphan II (Beta)	mg/kg				<0.01	8	0	8						
Endosulphan Sulphate	mg/kg				<0.01	8	0	8						
Endrin	mg/kg				<0.18	8	0	8						
Endrin Aldehyde	mg/kg				<0.01	8	0	8						
Endrin Ketone	mg/kg				<0.01	8	0	8						
Ethion	mg/kg				<0.01	8	0	8						
Etrimphos	mg/kg				<0.01	8	0	8						
Fenitrothion	mg/kg				<0.01	8	0	8						
Fensulphothion	mg/kg				<0.01	8	0	8						
Fenthion	mg/kg				<0.01	8	0	8						
Heptachlor	mg/kg				<0.01	8	0	8						
Heptachlor epoxide	mg/kg				<0.01	8	0	8						
Hexachlorobenzene (HCB)	mg/kg				<0.01	8	0	8						
Isodrin	mg/kg				<0.01	8	0	8						
Malathion	mg/kg				<0.01	8	0	8						
Methyl Parathion	mg/kg				<0.01	8	0	8						
Mevinphos	mg/kg				<0.01	8	0	8						
o,p-DDD (2,4)	mg/kg				<0.01	8	0	8						
o,p-DDE (2,4)	mg/kg				<0.01	8	0	8						
o,p-DDT (2,4)	mg/kg				<0.01	8	0	8						
o,p-Methoxychlor	mg/kg				<0.01	8	0	8						
p,p-DDD (4,4)	mg/kg				<0.01	8	0	8						
p,p-DDE (4,4)	mg/kg				<0.01	8	0	8						
p,p-DDT (4,4)	mg/kg				<0.01	8	0	8						
p,p-Methoxychlor	mg/kg				<0.01	8	0	8						
Parathion (ethyl)	mg/kg				<0.01	8	0	8						
Pendimethalin	mg/kg				<0.01	8	0	8						
Permethrin I (cis)	mg/kg				<0.01	8	0	8						
Permethrin II (trans)	mg/kg				<0.01	8	0	8						
pH	pH			7.55	4.73	17	17	0		6.41				
pH BRE	pH			8.31	6.81	7	7	0	7.09		6.91	8.28	7.98	
Phorate	mg/kg				<0.01	8	0	8						
Phosalone	mg/kg				<0.01	8	0	8						
Pirimiphos-methyl	mg/kg				<0.01	8	0	8						
Prometon	mg/kg				<0.2	8	0	8						
Prometryn	mg/kg				<0.2	8	0	8						
Propazine	mg/kg				<0.2	8	0	8						
Propetamphos	mg/kg				<0.01	8	0	8						
Prothiofos (Tokuthion)	mg/kg				<0.01	8	0	8						
Quintozene (PCNB)	mg/kg				<0.01	8	0	8						
Secbumeton	mg/kg				<0.2	8	0	8						
Simazine	mg/kg				<0.01	8	0	8						
Simazine	mg/kg				<0.2	8	0	8						
Simetryn	mg/kg				<0.2	8	0	8						
Sulprofos	mg/kg				<0.01	8	0	8						
Tecnazene	mg/kg				<0.01	8	0	8						
Telodrin	mg/kg				<0.01	8	0	8						
Terbutylazine	mg/kg				<0.2	8	0	8						
Terbutryn	mg/kg				<0.2	8	0	8						
Total Organic Carbon	% w/w			5.05	0.24	17	17	0		0.24				
Converted to SOM (x / 0.58)	% w/w			8.706897	0.413793	17	17	0		0.4137931				
Total Speciated PCB-EC7 & WHO12	mg/kg					0	0	0						
trans-Chlordane (Gamma)	mg/kg				<0.01	8	0	8						

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/08021/46	20/08021/47	20/08021/1	20/08021/2	20/08021/5	20/08021/7	20/08021/8	20/08021/10	20/08021/11	20/08021/12
									Client sample ID	BH1	BH2	SA1	TP3	TP7	TP15	TP16	TP19	TP22	TP22
									Depth to top	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.3	0.3	2
									Depth to bottom										
									Date sampled	17/09/20	17/09/20	16/09/20	14/09/20	04/09/20	03/09/20	14/09/20	03/09/20	03/09/20	03/09/20
Triadimefon	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01		
Triallate	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01		
Triazophos	mg/kg			0.02	<0.01	8	1	7					<0.01	<0.01			0.02		
Trichloronate	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01		
Trifluralin	mg/kg				<0.01	8	0	8					<0.01	<0.01			<0.01		

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/08021/15	20/08021/16	20/08021/17	20/08021/19	20/08021/49	20/08021/23	20/08021/24	20/08021/26	20/08021/29	20/08021/30
									Client sample ID	TP25	TP26	TP27	TP33	TP38	TP39	TP40	TP42	TP44	TP47
									Depth to top	0.25	1.8	0.3	0.1	1.4	0.3	0.3	0.3	0.1	0.05
									Depth to bottom										
									Date sampled	04/09/20	03/09/20	03/09/20	03/09/20	02/09/20	02/09/20	03/09/20	02/09/20	02/09/20	02/09/20
Triadimefon	mg/kg				<0.01	8	0	8	<0.01			<0.01	<0.01				<0.01		<0.01
Triallate	mg/kg				<0.01	8	0	8	<0.01			<0.01	<0.01				<0.01		<0.01
Triazophos	mg/kg			0.02	<0.01	8	1	7	<0.01			<0.01	<0.01				<0.01		<0.01
Trichloronate	mg/kg				<0.01	8	0	8	<0.01			<0.01	<0.01				<0.01		<0.01
Trifluralin	mg/kg				<0.01	8	0	8	<0.01			<0.01	<0.01				<0.01		<0.01

Lab sample ID	20/08021/50	20/08021/38	20/08021/53	20/08021/45	20/08021/57
Client sample ID	WS1	WS11	WS11	WS25	WS25
Depth to top	0.5	0.4	1.7	2.6	1.6
Depth to bottom					
Date sampled	16/09/20	14/09/20	14/09/20	14/09/20	14/09/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete					
Triadimefon	mg/kg				<0.01	8	0	8					
Triallate	mg/kg				<0.01	8	0	8					
Triazophos	mg/kg			0.02	<0.01	8	1	7					
Trichloronate	mg/kg				<0.01	8	0	8					
Trifluralin	mg/kg				<0.01	8	0	8					

Project name	Brown's Lane - Zone B additional trial pits	Notes	
Project code	252332		
Client name	Coventry City Council		
Address			
NGR			
Land use	Public Open Space in close proximity to residential housing		
SOM	1%		
GAC version	2019_00		

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/09084/1	20/09084/2	20/09084/3	20/09084/4	20/09084/5	20/09084/6	20/09084/7	20/09084/8	20/09084/9	20/09084/10
									Client sample ID	TP40A	TP40B	TP40B	TP40C	TP40D	TP40D	TP40E	TP40F	TP40G	TP40G
									Depth to top	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.1	0.1	0.3
									Depth to bottom										
									Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20
Metals and Inorganics																			
Arsenic	mg/kg	79		2	<1	21	1	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	mg/kg	220		1.1	<0.5	21	2	19	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	1540	21	35	17	21	21	0	28	28	23	22	23	20	29	35	26	17	17
Chromium (hexavalent)	mg/kg	21			<1	21	0	21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	mg/kg	12000		19	11	21	21	0	14	15	12	19	15	11	15	15	16	11	11
Lead	mg/kg	630		57	19	21	21	0	46	45	32	41	38	22	34	37	39	19	19
Mercury	mg/kg	120	16		<0.17	21	0	21	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Nickel	mg/kg	230		18	14	21	21	0	16	18	15	15	17	15	18	17	15	14	14
Selenium	mg/kg	1100		2	<1	21	1	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	mg/kg	81000		78	41	21	21	0	66	78	64	64	70	47	70	76	69	41	41
Asbestos																			
Asbestos in soil						0	0	0											
Petroleum Hydrocarbons																			
Ali >C5-C6	mg/kg	570000	304			0	0	0											
Ali >C6-C8	mg/kg	600000				0	0	0											
Ali >C8-C10	mg/kg	13000				0	0	0											
Ali >C10-C12	mg/kg	13000				0	0	0											
Ali >C12-C16	mg/kg	13000				0	0	0											
Ali >C16-C21	mg/kg					0	0	0											
Ali >C21-C35	mg/kg					0	0	0											
Ali >C16-C35 calculated	mg/kg	250000				0	0	0											
Total Aliphatics	mg/kg					0	0	0											
Aro >C5-C7	mg/kg					0	0	0											
Aro >C7-C8	mg/kg					0	0	0											
Aro >C8-C10	mg/kg	5000				0	0	0											
Aro >C10-C12	mg/kg	5000				0	0	0											
Aro >C12-C16	mg/kg	5000				0	0	0											
Aro >C16-C21	mg/kg	3800				0	0	0											
Aro >C21-C35	mg/kg	3800				0	0	0											
Total Aromatics	mg/kg					0	0	0											
TPH (Ali & Aro)	mg/kg					0	0	0											
BTEX - Benzene	mg/kg	140				0	0	0											
BTEX - Toluene	mg/kg	55700				0	0	0											
BTEX - Ethyl Benzene	mg/kg	23900				0	0	0											
BTEX - o Xylene	mg/kg	41000				0	0	0											
BTEX - m & p Xylene	mg/kg	40800				0	0	0											
MTBE	mg/kg	74600				0	0	0											
Polycyclic aromatic hydrocarbons																			
Acenaphthene	mg/kg	14800				0	0	0											
Acenaphthylene	mg/kg	14800				0	0	0											
Anthracene	mg/kg	74100				0	0	0											
Benzo(a)anthracene	mg/kg	29				0	0	0											
Benzo(a)pyrene	mg/kg	10				0	0	0											

Project name	Brown's Lane - Zone B additional trial pits									
Project code	252332									
Client name	Coventry City Council									
Address										
NGR										
Land use	Public Open Space in close proximity to residential housing									
SOM	1%									
GAC version	2019_00									

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/09084/11	20/09084/12	20/09084/13	20/09084/14	20/09084/15	20/09084/16	20/09084/17	20/09084/18	20/09084/19	20/09084/20
									Client sample ID	TP40H	TP40I	TP40I	TP40J	TP40J	TP40K	TP40L	TP40M	TP40M	TP40N
									Depth to top	0.1	0.1	0.25	0.1	0.3	0.1	0.1	0.1	0.3	0.1
									Depth to bottom										
									Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20
Metals and Inorganics																			
Arsenic	mg/kg	79		2	<1	21	1	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1
Cadmium	mg/kg	220		1.1	<0.5	21	2	19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5
Chromium	mg/kg	1540	21	35	17	21	21	0	23	26	19	21	19	28	22	25	19	23	
Chromium (hexavalent)	mg/kg	21			<1	21	0	21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Copper	mg/kg	12000		19	11	21	21	0	17	16	12	12	11	16	11	15	12	14	
Lead	mg/kg	630		57	19	21	21	0	45	39	20	48	25	57	31	35	19	31	
Mercury	mg/kg	120	16		<0.17	21	0	21	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	
Nickel	mg/kg	230		18	14	21	21	0	15	18	15	15	14	16	15	16	16	16	
Selenium	mg/kg	1100		2	<1	21	1	20	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	
Zinc	mg/kg	81000		78	41	21	21	0	69	71	47	55	45	70	52	72	44	66	
Asbestos																			
Asbestos in soil						0	0	0											
Petroleum Hydrocarbons																			
Ali >C5-C6	mg/kg	570000	304			0	0	0											
Ali >C6-C8	mg/kg	600000				0	0	0											
Ali >C8-C10	mg/kg	13000				0	0	0											
Ali >C10-C12	mg/kg	13000				0	0	0											
Ali >C12-C16	mg/kg	13000				0	0	0											
Ali >C16-C21	mg/kg					0	0	0											
Ali >C21-C35	mg/kg					0	0	0											
Ali >C16-C35 calculated	mg/kg	250000				0	0	0											
Total Aliphatics	mg/kg					0	0	0											
Aro >C5-C7	mg/kg					0	0	0											
Aro >C7-C8	mg/kg					0	0	0											
Aro >C8-C10	mg/kg	5000				0	0	0											
Aro >C10-C12	mg/kg	5000				0	0	0											
Aro >C12-C16	mg/kg	5000				0	0	0											
Aro >C16-C21	mg/kg	3800				0	0	0											
Aro >C21-C35	mg/kg	3800				0	0	0											
Total Aromatics	mg/kg					0	0	0											
TPH (Ali & Aro)	mg/kg					0	0	0											
BTEX - Benzene	mg/kg	140				0	0	0											
BTEX - Toluene	mg/kg	55700				0	0	0											
BTEX - Ethyl Benzene	mg/kg	23900				0	0	0											
BTEX - o Xylene	mg/kg	41000				0	0	0											
BTEX - m & p Xylene	mg/kg	40800				0	0	0											
MTBE	mg/kg	74600				0	0	0											
Polycyclic aromatic hydrocarbons																			
Acenaphthene	mg/kg	14800				0	0	0											
Acenaphthylene	mg/kg	14800				0	0	0											
Anthracene	mg/kg	74100				0	0	0											
Benzo(a)anthracene	mg/kg	29				0	0	0											
Benzo(a)pyrene	mg/kg	10				0	0	0											

Project name	Brown's Lane - Zone B additional trial pits	
Project code	252332	
Client name	Coventry City Council	
Address		
NGR		
Land use	Public Open Space in close proximity to residential housing	
SOM	1%	
GAC version	2019_00	

Lab sample ID	20/09084/21
Client sample ID	TP400
Depth to top	0.1
Depth to bottom	
Date sampled	22/10/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete
Metals and Inorganics								
Arsenic	mg/kg	79		2	<1	21	1	20 <1
Cadmium	mg/kg	220		1.1	<0.5	21	2	19 <0.5
Chromium	mg/kg	1540	21	35	17	21	21	0 19
Chromium (hexavalent)	mg/kg	21			<1	21	0	21 <1
Copper	mg/kg	12000		19	11	21	21	0 12
Lead	mg/kg	630		57	19	21	21	0 26
Mercury	mg/kg	120	16		<0.17	21	0	21 <0.17
Nickel	mg/kg	230		18	14	21	21	0 14
Selenium	mg/kg	1100		2	<1	21	1	20 <1
Zinc	mg/kg	81000		78	41	21	21	0 49
Asbestos								
Asbestos in soil						0	0	0
Petroleum Hydrocarbons								
Ali >C5-C6	mg/kg	570000	304			0	0	0
Ali >C6-C8	mg/kg	600000				0	0	0
Ali >C8-C10	mg/kg	13000				0	0	0
Ali >C10-C12	mg/kg	13000				0	0	0
Ali >C12-C16	mg/kg	13000				0	0	0
Ali >C16-C21	mg/kg					0	0	0
Ali >C21-C35	mg/kg					0	0	0
Ali >C16-C35 calculated	mg/kg	250000				0	0	0
Total Aliphatics	mg/kg					0	0	0
Aro >C5-C7	mg/kg					0	0	0
Aro >C7-C8	mg/kg					0	0	0
Aro >C8-C10	mg/kg	5000				0	0	0
Aro >C10-C12	mg/kg	5000				0	0	0
Aro >C12-C16	mg/kg	5000				0	0	0
Aro >C16-C21	mg/kg	3800				0	0	0
Aro >C21-C35	mg/kg	3800				0	0	0
Total Aromatics	mg/kg					0	0	0
TPH (Ali & Aro)	mg/kg					0	0	0
BTEX - Benzene	mg/kg	140				0	0	0
BTEX - Toluene	mg/kg	55700				0	0	0
BTEX - Ethyl Benzene	mg/kg	23900				0	0	0
BTEX - o Xylene	mg/kg	41000				0	0	0
BTEX - m & p Xylene	mg/kg	40800				0	0	0
MTBE	mg/kg	74600				0	0	0
Polycyclic aromatic hydrocarbons								
Acenaphthene	mg/kg	14800				0	0	0
Acenaphthylene	mg/kg	14800				0	0	0
Anthracene	mg/kg	74100				0	0	0
Benzo(a)anthracene	mg/kg	29				0	0	0
Benzo(a)pyrene	mg/kg	10				0	0	0

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/09084/1	20/09084/2	20/09084/3	20/09084/4	20/09084/5	20/09084/6	20/09084/7	20/09084/8	20/09084/9	20/09084/10	
									Client sample ID	TP40A	TP40B	TP40B	TP40C	TP40D	TP40D	TP40E	TP40F	TP40G	TP40G	
									Depth to top	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.3
									Depth to bottom											
Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20		
Benzo(b)fluoranthene	mg/kg		7			0	0	0												
Benzo(ghi)perylene	mg/kg		640			0	0	0												
Benzo(k)fluoranthene	mg/kg		190			0	0	0												
Chrysene	mg/kg		57			0	0	0												
Dibenzo(ah)anthracene	mg/kg		0.57			0	0	0												
Fluoranthene	mg/kg		3100			0	0	0												
Fluorene	mg/kg		9900			0	0	0												
Indeno(123-cd)pyrene	mg/kg		82			0	0	0												
Naphthalene	mg/kg		4900			0	0	0												
Phenanthrene	mg/kg		3100			0	0	0												
Pyrene	mg/kg		7400			0	0	0												
Total PAH-16MS	mg/kg					0	0	0												
PCBs																				
PCB BZ 101	mg/kg					0	0	0												
PCB BZ 105	mg/kg					0	0	0												
PCB BZ 114	mg/kg					0	0	0												
PCB BZ 118	mg/kg					0	0	0												
PCB BZ 123	mg/kg					0	0	0												
PCB BZ 126	mg/kg					0	0	0												
PCB BZ 138	mg/kg					0	0	0												
PCB BZ 153	mg/kg					0	0	0												
PCB BZ 156	mg/kg					0	0	0												
PCB BZ 157	mg/kg					0	0	0												
PCB BZ 167	mg/kg					0	0	0												
PCB BZ 169	mg/kg					0	0	0												
PCB BZ 180	mg/kg					0	0	0												
PCB BZ 189	mg/kg					0	0	0												
PCB BZ 28	mg/kg					0	0	0												
PCB BZ 52	mg/kg					0	0	0												
PCB BZ 77	mg/kg					0	0	0												
PCB BZ 81	mg/kg					0	0	0												
Other analytes																				
% Stones >10mm	% w/w			12.7	<0.1	21	8	13	<0.1	<0.1	4.7	3.6	<0.1	11.6	<0.1	<0.1	<0.1	<0.1	5	
Aldrin	mg/kg					0	0	0												
alpha-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0												
Ametryn	mg/kg					0	0	0												
Atraton	mg/kg					0	0	0												
Atrazine	mg/kg					0	0	0												
Atrazine	mg/kg					0	0	0												
Azinphos-ethyl	mg/kg					0	0	0												
Azinphos-methyl	mg/kg					0	0	0												
beta-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0												
Carbophenothion	mg/kg					0	0	0												
Chlorfenvinphos	mg/kg					0	0	0												
Chlorothalonil	mg/kg					0	0	0												
Chlorpyrifos	mg/kg					0	0	0												
Chlorpyrifos-methyl	mg/kg					0	0	0												
cis-Chlordane (Alpha)	mg/kg					0	0	0												
Coumaphos	mg/kg					0	0	0												
delta-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0												
Demeton-O	mg/kg					0	0	0												
Demeton-S	mg/kg					0	0	0												
Diazinon (Dimpylate)	mg/kg					0	0	0												
Dichlobenil	mg/kg					0	0	0												
Dichlorvos	mg/kg					0	0	0												
Dieldrin	mg/kg					0	0	0												

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/09084/11	20/09084/12	20/09084/13	20/09084/14	20/09084/15	20/09084/16	20/09084/17	20/09084/18	20/09084/19	20/09084/20	
									Client sample ID	TP40H	TP40I	TP40I	TP40J	TP40J	TP40K	TP40L	TP40M	TP40M	TP40N	
									Depth to top	0.1	0.1	0.25	0.1	0.3	0.1	0.1	0.1	0.3	0.1	
									Depth to bottom											
Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20		
Benzo(b)fluoranthene	mg/kg		7			0	0	0												
Benzo(ghi)perylene	mg/kg		640			0	0	0												
Benzo(k)fluoranthene	mg/kg		190			0	0	0												
Chrysene	mg/kg		57			0	0	0												
Dibenzo(ah)anthracene	mg/kg		0.57			0	0	0												
Fluoranthene	mg/kg		3100			0	0	0												
Fluorene	mg/kg		9900			0	0	0												
Indeno(123-cd)pyrene	mg/kg		82			0	0	0												
Naphthalene	mg/kg		4900			0	0	0												
Phenanthrene	mg/kg		3100			0	0	0												
Pyrene	mg/kg		7400			0	0	0												
Total PAH-16MS	mg/kg					0	0	0												
PCBs																				
PCB BZ 101	mg/kg					0	0	0												
PCB BZ 105	mg/kg					0	0	0												
PCB BZ 114	mg/kg					0	0	0												
PCB BZ 118	mg/kg					0	0	0												
PCB BZ 123	mg/kg					0	0	0												
PCB BZ 126	mg/kg					0	0	0												
PCB BZ 138	mg/kg					0	0	0												
PCB BZ 153	mg/kg					0	0	0												
PCB BZ 156	mg/kg					0	0	0												
PCB BZ 157	mg/kg					0	0	0												
PCB BZ 167	mg/kg					0	0	0												
PCB BZ 169	mg/kg					0	0	0												
PCB BZ 180	mg/kg					0	0	0												
PCB BZ 189	mg/kg					0	0	0												
PCB BZ 28	mg/kg					0	0	0												
PCB BZ 52	mg/kg					0	0	0												
PCB BZ 77	mg/kg					0	0	0												
PCB BZ 81	mg/kg					0	0	0												
Other analytes																				
% Stones >10mm	% w/w			12.7	<0.1	21	8	13	<0.1	<0.1	9.9	<0.1	5.1	<0.1	<0.1	<0.1	<0.1	12.7	<0.1	
Aldrin	mg/kg					0	0	0												
alpha-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0												
Ametryn	mg/kg					0	0	0												
Atraton	mg/kg					0	0	0												
Atrazine	mg/kg					0	0	0												
Atrazine	mg/kg					0	0	0												
Azinphos-ethyl	mg/kg					0	0	0												
Azinphos-methyl	mg/kg					0	0	0												
beta-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0												
Carbophenothion	mg/kg					0	0	0												
Chlorfenvinphos	mg/kg					0	0	0												
Chlorothalonil	mg/kg					0	0	0												
Chlorpyrifos	mg/kg					0	0	0												
Chlorpyrifos-methyl	mg/kg					0	0	0												
cis-Chlordane (Alpha)	mg/kg					0	0	0												
Coumaphos	mg/kg					0	0	0												
delta-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0												
Demeton-O	mg/kg					0	0	0												
Demeton-S	mg/kg					0	0	0												
Diazinon (Dimpylate)	mg/kg					0	0	0												
Dichlobenil	mg/kg					0	0	0												
Dichlorvos	mg/kg					0	0	0												
Dieldrin	mg/kg					0	0	0												

Lab sample ID	20/09084/21
Client sample ID	TP400
Depth to top	0.1
Depth to bottom	
Date sampled	22/10/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	
Benzo(b)fluoranthene	mg/kg		7			0	0	0	
Benzo(ghi)perylene	mg/kg		640			0	0	0	
Benzo(k)fluoranthene	mg/kg		190			0	0	0	
Chrysene	mg/kg		57			0	0	0	
Dibenzo(ah)anthracene	mg/kg		0.57			0	0	0	
Fluoranthene	mg/kg		3100			0	0	0	
Fluorene	mg/kg		9900			0	0	0	
Indeno(123-cd)pyrene	mg/kg		82			0	0	0	
Naphthalene	mg/kg		4900			0	0	0	
Phenanthrene	mg/kg		3100			0	0	0	
Pyrene	mg/kg		7400			0	0	0	
Total PAH-16MS	mg/kg					0	0	0	
PCBs									
PCB BZ 101	mg/kg					0	0	0	
PCB BZ 105	mg/kg					0	0	0	
PCB BZ 114	mg/kg					0	0	0	
PCB BZ 118	mg/kg					0	0	0	
PCB BZ 123	mg/kg					0	0	0	
PCB BZ 126	mg/kg					0	0	0	
PCB BZ 138	mg/kg					0	0	0	
PCB BZ 153	mg/kg					0	0	0	
PCB BZ 156	mg/kg					0	0	0	
PCB BZ 157	mg/kg					0	0	0	
PCB BZ 167	mg/kg					0	0	0	
PCB BZ 169	mg/kg					0	0	0	
PCB BZ 180	mg/kg					0	0	0	
PCB BZ 189	mg/kg					0	0	0	
PCB BZ 28	mg/kg					0	0	0	
PCB BZ 52	mg/kg					0	0	0	
PCB BZ 77	mg/kg					0	0	0	
PCB BZ 81	mg/kg					0	0	0	
Other analytes									
% Stones >10mm	% w/w			12.7	<0.1	21	8	13	0.8
Aldrin	mg/kg					0	0	0	
alpha-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0	
Ametryn	mg/kg					0	0	0	
Atraton	mg/kg					0	0	0	
Atrazine	mg/kg					0	0	0	
Atrazine	mg/kg					0	0	0	
Azinphos-ethyl	mg/kg					0	0	0	
Azinphos-methyl	mg/kg					0	0	0	
beta-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0	
Carbophenothion	mg/kg					0	0	0	
Chlorfenvinphos	mg/kg					0	0	0	
Chlorothalonil	mg/kg					0	0	0	
Chlorpyrifos	mg/kg					0	0	0	
Chlorpyrifos-methyl	mg/kg					0	0	0	
cis-Chlordane (Alpha)	mg/kg					0	0	0	
Coumaphos	mg/kg					0	0	0	
delta-Hexachlorocyclohexane (HCH)	mg/kg					0	0	0	
Demeton-O	mg/kg					0	0	0	
Demeton-S	mg/kg					0	0	0	
Diazinon (Dimpylate)	mg/kg					0	0	0	
Dichlobenil	mg/kg					0	0	0	
Dichlorvos	mg/kg					0	0	0	
Dieldrin	mg/kg					0	0	0	

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects	Lab sample ID	20/09084/1	20/09084/2	20/09084/3	20/09084/4	20/09084/5	20/09084/6	20/09084/7	20/09084/8	20/09084/9	20/09084/10	
									Client sample ID	TP40A	TP40B	TP40B	TP40C	TP40D	TP40D	TP40E	TP40F	TP40G	TP40G	
									Depth to top	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.3
									Depth to bottom											
Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20		
Dimethoate	mg/kg					0	0	0												
Disulfoton	mg/kg					0	0	0												
Endosulphan I (Alpha)	mg/kg					0	0	0												
Endosulphan II (Beta)	mg/kg					0	0	0												
Endosulphan Sulphate	mg/kg					0	0	0												
Endrin	mg/kg					0	0	0												
Endrin Aldehyde	mg/kg					0	0	0												
Endrin Ketone	mg/kg					0	0	0												
Ethion	mg/kg					0	0	0												
Etrimphos	mg/kg					0	0	0												
Fenitrothion	mg/kg					0	0	0												
Fensulphothion	mg/kg					0	0	0												
Fenthion	mg/kg					0	0	0												
Heptachlor	mg/kg					0	0	0												
Heptachlor epoxide	mg/kg					0	0	0												
Hexachlorobenzene (HCB)	mg/kg					0	0	0												
Isodrin	mg/kg					0	0	0												
Malathion	mg/kg					0	0	0												
Methyl Parathion	mg/kg					0	0	0												
Mevinphos	mg/kg					0	0	0												
o,p-DDD (2,4)	mg/kg					0	0	0												
o,p-DDE (2,4)	mg/kg					0	0	0												
o,p-DDT (2,4)	mg/kg					0	0	0												
o,p-Methoxychlor	mg/kg					0	0	0												
p,p-DDD (4,4)	mg/kg					0	0	0												
p,p-DDE (4,4)	mg/kg					0	0	0												
p,p-DDT (4,4)	mg/kg					0	0	0												
p,p-Methoxychlor	mg/kg					0	0	0												
Parathion (ethyl)	mg/kg					0	0	0												
Pendimethalin	mg/kg					0	0	0												
Permethrin I (cis)	mg/kg					0	0	0												
Permethrin II (trans)	mg/kg					0	0	0												
pH	pH					0	0	0												
pH BRE	pH					0	0	0												
Phorate	mg/kg					0	0	0												
Phosalone	mg/kg					0	0	0												
Pirimiphos-methyl	mg/kg					0	0	0												
Prometon	mg/kg					0	0	0												
Prometryn	mg/kg					0	0	0												
Propazine	mg/kg					0	0	0												
Propetamphos	mg/kg					0	0	0												
Prothiofos (Tokuthion)	mg/kg					0	0	0												
Quintozene (PCNB)	mg/kg					0	0	0												
Secbumeton	mg/kg					0	0	0												
Simazine	mg/kg					0	0	0												
Simazine	mg/kg					0	0	0												
Simetryn	mg/kg					0	0	0												
Sulprofos	mg/kg					0	0	0												
Tecnazene	mg/kg					0	0	0												
Telodrin	mg/kg					0	0	0												
Terbutylazine	mg/kg					0	0	0												
Terbutryn	mg/kg					0	0	0												
Total Organic Carbon	% w/w					0	0	0												
Converted to SOM (x / 0.58)	% w/w					0	0	0												
Total Speciated PCB-EC7 & WHO12	mg/kg					0	0	0												
trans-Chlordane (Gamma)	mg/kg					0	0	0												

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/09084/11	20/09084/12	20/09084/13	20/09084/14	20/09084/15	20/09084/16	20/09084/17	20/09084/18	20/09084/19	20/09084/20
									Client sample ID	TP40H	TP40I	TP40I	TP40J	TP40J	TP40K	TP40L	TP40M	TP40M	TP40N
									Depth to top	0.1	0.1	0.25	0.1	0.3	0.1	0.1	0.1	0.3	0.1
									Depth to bottom										
Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	
Dimethoate	mg/kg					0	0	0											
Disulfoton	mg/kg					0	0	0											
Endosulphan I (Alpha)	mg/kg					0	0	0											
Endosulphan II (Beta)	mg/kg					0	0	0											
Endosulphan Sulphate	mg/kg					0	0	0											
Endrin	mg/kg					0	0	0											
Endrin Aldehyde	mg/kg					0	0	0											
Endrin Ketone	mg/kg					0	0	0											
Ethion	mg/kg					0	0	0											
Etrimphos	mg/kg					0	0	0											
Fenitrothion	mg/kg					0	0	0											
Fensulphothion	mg/kg					0	0	0											
Fenthion	mg/kg					0	0	0											
Heptachlor	mg/kg					0	0	0											
Heptachlor epoxide	mg/kg					0	0	0											
Hexachlorobenzene (HCB)	mg/kg					0	0	0											
Isodrin	mg/kg					0	0	0											
Malathion	mg/kg					0	0	0											
Methyl Parathion	mg/kg					0	0	0											
Mevinphos	mg/kg					0	0	0											
o,p-DDD (2,4)	mg/kg					0	0	0											
o,p-DDE (2,4)	mg/kg					0	0	0											
o,p-DDT (2,4)	mg/kg					0	0	0											
o,p-Methoxychlor	mg/kg					0	0	0											
p,p-DDD (4,4)	mg/kg					0	0	0											
p,p-DDE (4,4)	mg/kg					0	0	0											
p,p-DDT (4,4)	mg/kg					0	0	0											
p,p-Methoxychlor	mg/kg					0	0	0											
Parathion (ethyl)	mg/kg					0	0	0											
Pendimethalin	mg/kg					0	0	0											
Permethrin I (cis)	mg/kg					0	0	0											
Permethrin II (trans)	mg/kg					0	0	0											
pH	pH					0	0	0											
pH BRE	pH					0	0	0											
Phorate	mg/kg					0	0	0											
Phosalone	mg/kg					0	0	0											
Pirimiphos-methyl	mg/kg					0	0	0											
Prometon	mg/kg					0	0	0											
Prometryn	mg/kg					0	0	0											
Propazine	mg/kg					0	0	0											
Propetamphos	mg/kg					0	0	0											
Prothiofos (Tokuthion)	mg/kg					0	0	0											
Quintozene (PCNB)	mg/kg					0	0	0											
Secbumeton	mg/kg					0	0	0											
Simazine	mg/kg					0	0	0											
Simazine	mg/kg					0	0	0											
Simetryn	mg/kg					0	0	0											
Sulprofos	mg/kg					0	0	0											
Tecnazene	mg/kg					0	0	0											
Telodrin	mg/kg					0	0	0											
Terbutylazine	mg/kg					0	0	0											
Terbutryn	mg/kg					0	0	0											
Total Organic Carbon	% w/w					0	0	0											
Converted to SOM (x / 0.58)	% w/w					0	0	0											
Total Speciated PCB-EC7 & WHO12	mg/kg					0	0	0											
trans-Chlordane (Gamma)	mg/kg					0	0	0											

Lab sample ID	20/09084/21
Client sample ID	TP400
Depth to top	0.1
Depth to bottom	
Date sampled	22/10/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete
Dimethoate	mg/kg					0	0	0
Disulfoton	mg/kg					0	0	0
Endosulphan I (Alpha)	mg/kg					0	0	0
Endosulphan II (Beta)	mg/kg					0	0	0
Endosulphan Sulphate	mg/kg					0	0	0
Endrin	mg/kg					0	0	0
Endrin Aldehyde	mg/kg					0	0	0
Endrin Ketone	mg/kg					0	0	0
Ethion	mg/kg					0	0	0
Etrimphos	mg/kg					0	0	0
Fenitrothion	mg/kg					0	0	0
Fensulphothion	mg/kg					0	0	0
Fenthion	mg/kg					0	0	0
Heptachlor	mg/kg					0	0	0
Heptachlor epoxide	mg/kg					0	0	0
Hexachlorobenzene (HCB)	mg/kg					0	0	0
Isodrin	mg/kg					0	0	0
Malathion	mg/kg					0	0	0
Methyl Parathion	mg/kg					0	0	0
Mevinphos	mg/kg					0	0	0
o,p-DDD (2,4)	mg/kg					0	0	0
o,p-DDE (2,4)	mg/kg					0	0	0
o,p-DDT (2,4)	mg/kg					0	0	0
o,p-Methoxychlor	mg/kg					0	0	0
p,p-DDD (4,4)	mg/kg					0	0	0
p,p-DDE (4,4)	mg/kg					0	0	0
p,p-DDT (4,4)	mg/kg					0	0	0
p,p-Methoxychlor	mg/kg					0	0	0
Parathion (ethyl)	mg/kg					0	0	0
Pendimethalin	mg/kg					0	0	0
Permethrin I (cis)	mg/kg					0	0	0
Permethrin II (trans)	mg/kg					0	0	0
pH	pH					0	0	0
pH BRE	pH					0	0	0
Phorate	mg/kg					0	0	0
Phosalone	mg/kg					0	0	0
Pirimiphos-methyl	mg/kg					0	0	0
Prometon	mg/kg					0	0	0
Prometryn	mg/kg					0	0	0
Propazine	mg/kg					0	0	0
Propetamphos	mg/kg					0	0	0
Prothiofos (Tokuthion)	mg/kg					0	0	0
Quintozene (PCNB)	mg/kg					0	0	0
Secbumeton	mg/kg					0	0	0
Simazine	mg/kg					0	0	0
Simazine	mg/kg					0	0	0
Simetryn	mg/kg					0	0	0
Sulprofos	mg/kg					0	0	0
Tecnazene	mg/kg					0	0	0
Telodrin	mg/kg					0	0	0
Terbutylazine	mg/kg					0	0	0
Terbutryn	mg/kg					0	0	0
Total Organic Carbon	% w/w					0	0	0
Converted to SOM (x / 0.58)	% w/w					0	0	0
Total Speciated PCB-EC7 & WHO12	mg/kg					0	0	0
trans-Chlordane (Gamma)	mg/kg					0	0	0

Lab sample ID	20/09084/1	20/09084/2	20/09084/3	20/09084/4	20/09084/5	20/09084/6	20/09084/7	20/09084/8	20/09084/9	20/09084/10
Client sample ID	TP40A	TP40B	TP40B	TP40C	TP40D	TP40D	TP40E	TP40F	TP40G	TP40G
Depth to top	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.1	0.1	0.3
Depth to bottom										
Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-detects										
Triadimefon	mg/kg					0	0	0										
Triallate	mg/kg					0	0	0										
Triazophos	mg/kg					0	0	0										
Trichloronate	mg/kg					0	0	0										
Trifluralin	mg/kg					0	0	0										

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	Lab sample ID	20/09084/11	20/09084/12	20/09084/13	20/09084/14	20/09084/15	20/09084/16	20/09084/17	20/09084/18	20/09084/19	20/09084/20
									Client sample ID	TP40H	TP40I	TP40I	TP40J	TP40J	TP40K	TP40L	TP40M	TP40M	TP40N
									Depth to top	0.1	0.1	0.25	0.1	0.3	0.1	0.1	0.1	0.3	0.1
									Depth to bottom										
									Date sampled	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20	22/10/20
Triadimefon	mg/kg					0	0	0											
Triallate	mg/kg					0	0	0											
Triazophos	mg/kg					0	0	0											
Trichloronate	mg/kg					0	0	0											
Trifluralin	mg/kg					0	0	0											

Lab sample ID	20/09084/21
Client sample ID	TP400
Depth to top	0.1
Depth to bottom	
Date sampled	22/10/20

Analyte	Unit	GAC	T1	Max	Min	Count	# Detects	# Non-dete	
Triadimefon	mg/kg					0	0	0	
Triallate	mg/kg					0	0	0	
Triazophos	mg/kg					0	0	0	
Trichloronate	mg/kg					0	0	0	
Trifluralin	mg/kg					0	0	0	



APPENDIX Q

GQRA DATA SCREENING TABLE – LEACHATE

Site No. - Site Details - Tier 1 Groundwater Risk Assessment - Soil Leachate Results

Sample Identity	Tier 2 Target Concentration (LTC2)		TP37	TP39	TP40	TP41	TP43	TP44	TP47	WS2	WS3	WS4	WS7	WS9	WS11	WS13	WS14	WS21	WS23	WS24	
	Depth		0.10	0.30	0.30	0.40	0.10	0.10	0.05	0.40	0.50	0.40	0.30	0.20	0.40	0.20	0.20	0.20	0.20	0.20	0.20
Determinand	Units	Freshwater EQS	UK DWS																		
Metals																					
Arsenic (leachable)	ug/l	50	10	2	1	<1	<1	5	9	5	<1	2	3	2	7	2	3	2	3	1	13
Boron (leachable)	ug/l	2000	1000																		
Cadmium (leachable)	ug/l	^	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper (leachable)	ug/l	1*	2000	22	23	32	<1	15	48	46	2	10	32	10	38	28	21	11	46	17	20
Chromium (leachable)	ug/l	8.1	50	1	2	1	<1	3	1	2	<1	<1	18	2	3	2	2	2	2	2	<1
Hexavalent Chromium (leachable)	mg/l	0.0034	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (leachable)	ug/l	1.2*	10	42	13	8	<1	15	51	422	<1	9	5	9	43	10	22	6	32	6	9
Mercury (leachable)	ug/l	0.07	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel (leachable)	ug/l	4*	20	5	11	9	3	6	13	12	<1	2	18	2	7	2	5	1	13	3	5
Selenium (leachable)	ug/l		10	<1	<1	<1	<1	1	<1	1	<1	<1	2	<1	<1	<1	<1	<1	1	<1	<1
Zinc (leachable)	ug/l	10.9*	3000	23	37	21	6	32	300	74	10	14	46	18	52	16	39	10	50	13	71
= exceedance of Tier 1 Target Concentration																					
^ hardness dependent																					
* bioavailable																					

Site No. - Site Details - Tier 1 Groundwater Risk Assessment - Soil Leachate Results

Sample Identity	Depth	Tier 2 Target Concentration (LTC2)		BH1	BH2			
		Freshwater EQS	UK DWS	0.30	0.30			
Determinand	Units							
Metals								
Arsenic (leachable)	ug/l	50	10	<1	2			
Boron (leachable)	ug/l	2000	1000					
Cadmium (leachable)	ug/l	^	5	<1	<1			
Copper (leachable)	ug/l	1*	2000	15	12		48	
Chromium (leachable)	ug/l	8.1	50	<1	<1			
Hexavalent Chromium (leachable)	mg/l	0.0034	0.05	<0.05	<0.05			
Lead (leachable)	ug/l	1.2*	10	50	4		4	
Mercury (leachable)	ug/l	0.07	1	<0.1	<0.1		422	
Nickel (leachable)	ug/l	4*	20	5	4			
Selenium (leachable)	ug/l		10	<1	<1			
Zinc (leachable)	ug/l	10.9*	3000	37	10			
		= exceedance of Tier 1 Target Concentration						
^ hardness dependent								
* bioavailable								



APPENDIX R

GAS SCREENING TABLES

Job Number:
Client:
Site:

Revised Wilson and Card Classification Ground Gas Risk Assessment

Job No.:	252332
Client:	Coventry City Council
Site:	Brown's Lane

For low-rise residential developments without a clear ventilated sub-floor void, flats and commercial / industrial sites

Characteristic Situation	Risk	GSV
1	Very Low	0.07
2	Low	0.7
3	Moderate	3.5
4	Moderate to High	15
5	High	70
6	Very High	>70

From CIRIA Report 659 (2006) "Assessing Risks Posed By Hazardous Ground Gases To Buildings", Wilson et al.

KEY:
GSV Gas Screening Value

GSV cannot be calculated on a site-specific basis

GSV indicates very low risk
GSV indicates low to moderate risk
GSV indicates moderate or greater risk; Concentrations of CH4 ≥20%/v; CO2 ≥30%/v
Oxygen concentration ≤10%/v
Total ground gas concentrations >100%/v

BH NO.	DATE	CH4 I	CH4 SS	CO2 I	CO2 SS	O2 I	O2 SS	Flow l/hr	Baro mbar	BH Press mbar	I SUM		SS SUM		GSV		CS No.
		%v/v	%v/v	%v/v	%v/v	%v/v	%v/v				%v/v	%v/v	CH4	CO2			
BH1	22/09/2020	<0.1	<0.1	0.2	1.3	19.3	18.5	0.2	992	992	19.5	19.8	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.3	2.6	20.6	18.6	0	997	997	20.9	21.2	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.3	2.8	20.6	17.8	0	1012	1012	20.9	20.6	0.00	0.00	0.00	0.00	CS1
	22/10/2020										0.0	0.0	0.00	0.00	0.00	0.00	CS1
BH2	22/09/2020	<0.1	<0.1	0.3	0.6	19.2	13.2	0.3	992	992	19.5	13.8	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.1	1.8	20.6	5.3	0	997	997	20.7	7.1	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.1	0.9	20.7	19.3	0.1	1011	1011	20.8	20.2	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1								0.0	0.0	0.00	0.00	0.00	0.00	CS1
BH3	22/09/2020	<0.1	<0.1	0.1	0.7	18.1	16.6	0.3	992	992	18.2	17.3	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.2	0.1	20.9	20.3	0.1	998	997	21.1	20.4	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.3	1.1	20.9	16.7	0.1	1010	1010	21.2	17.8	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1								0.0	0.0	0.00	0.00	0.00	0.00	CS1
WS11	22/09/2020	<0.1	<0.1	0.1	4.5	19.3	16.6	0.2	992	992	19.4	21.1	0.00	0.01	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.3	3.3	20.6	17.0	0.1	1012	1012	20.9	20.3	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.1	2.2	20.9	18.6	0	994	994	21.0	20.8	0.00	0.00	0.00	0.00	CS1
	22/10/2020										0.0	0.0	0.00	0.00	0.00	0.00	CS1
WS12	22/09/2020	<0.1	<0.1	0.1	1.1	18.3	17.7	0.1	992	992	18.4	18.8	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.2	1.9	21.0	18.5	0	998	998	21.2	20.4	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.3	1.6	20.6	19.2	0	1011	1011	20.9	20.8	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.1	2.7	20.8	16.9	0	990	992	20.9	19.6	0.00	0.00	0.00	0.00	CS1
WS14	22/09/2020	<0.1	<0.1	0.1	1.1	18.7	18.1	0.2	992	992	18.8	19.2	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.1	0.9	21.0	20.0	4.8	997	997	21.1	20.9	0.00	0.04	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.1	0.6	20.6	17.0	0	1015	1011	20.7	17.6	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.1	0.5	20.8	16.1	3.3	996	993	20.9	16.6	0.00	0.02	0.00	0.00	CS1
WS16	22/09/2020	<0.1	<0.1	0.1	1.1	19.2	16.4	0.2	992	992	19.3	17.5	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.2	1.3	21.0	16.3	0	996	996	21.2	17.6	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.2	0.1	20.6	20.6	0	1015	1011	20.8	20.7	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.1	0.9	20.6	17.7	0	992	992	20.7	18.6	0.00	0.00	0.00	0.00	CS1
WS2	22/09/2020	<0.1	<0.1	0.1	0.9	19.4	18.4	0.1	992	992	19.5	19.3	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.2	0.9	21.0	19.5	0	996	996	21.2	20.4	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.3	0.5	20.9	18.4	0	1011	1011	21.2	18.9	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.3	0.4	20.7	17.9	0	995	991	21.0	18.3	0.00	0.00	0.00	0.00	CS1
WS21	22/09/2020	<0.1	<0.1	0.1	3.4	19.1	17.1	0.3	992	992	19.2	20.5	0.00	0.01	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.2	2.1	21.0	18.2	0	997	997	21.2	20.3	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.1	2.6	20.6	16.5	0	1011	1011	20.7	19.1	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.1	3.3	20.5	14.9	0	993	993	20.6	18.2	0.00	0.00	0.00	0.00	CS1
WS24	22/09/2020	<0.1	<0.1	0.1	1.2	19.1	18.4	0.3	992	992	19.2	19.6	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.1	1.0	21.0	18.2	0.1	998	998	21.1	19.2	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.2	2.5	20.6	15.7	0	1010	1010	20.8	18.2	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.1	3.1	20.8	16.6	0	992	992	20.9	19.7	0.00	0.00	0.00	0.00	CS1
WS25	22/09/2020	<0.1	<0.1	0.1	1.5	19.4	18.3	0.2	992	992	19.5	19.8	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.1	1.8	20.6	19.2	0	997	997	20.7	21.0	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.2	1.8	20.9	18.5	0.1	1011	1011	21.1	20.3	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.1	1.7	21.0	18.6	0	992	992	21.1	20.3	0.00	0.00	0.00	0.00	CS1
WS4	22/09/2020	<0.1	<0.1	0.1	1.5	19.4	18.3	0.1	993	993	19.5	19.8	0.00	0.00	0.00	0.00	CS1
	07/10/2020	<0.1	<0.1	0.1	1.8	21.0	19.4	0.1	999	999	21.1	21.2	0.00	0.00	0.00	0.00	CS1
	15/10/2020	<0.1	<0.1	0.2	1.8	20.6	18.2	0.1	1017	1011	20.8	20.0	0.00	0.00	0.00	0.00	CS1
	22/10/2020	<0.1	<0.1	0.1	2.2	20.9	18.2	0	1017	1011	21.0	20.4	0.00	0.00	0.00	0.00	CS1



APPENDIX S

WM3 ASSESMENT



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane
TP/WS/BH
Depth (m)
Envirolab reference

SA1	TP3	TP6	TP7	TP8	TP15	TP16	TP17	TP19
0.20	0.10	0.20	0.10	0.40	0.30	0.20	0.10	0.30

Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%
<i>Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>	

N	N	N	N	N	N	N	N	N
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If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
---------	---------	---------	---------	---------	---------	---------	---------	---------

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y
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If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥20%	
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%
Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥55%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11	≥0.1%	
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
Mutagenic HP11	≥1%	
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	
HP13 Sensitising	≥10%	

If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.								
0.00032	0.00032	0.00032	0.00046	0.00032	0.00032	0.00046	0.00072	0.00032
0.00138	0.00194	0.00138	0.00196	0.00307	0.00160	0.00275	0.00301	0.00183
0.00388	0.00485	0.00388	0.00393	0.00860	0.00491	0.00694	0.00593	0.00514
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
0.00263	0.00303	0.00263	0.00222	0.00566	0.00343	0.00444	0.00343	0.00343
0.00230	0.00360	0.00260	0.00410	0.00110	0.00170	0.00470	0.00450	0.00310
0.00050	0.00030	0.00110	0.00150	0.00010	0.00010	0.00310	0.00110	0.00170
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00015	0.00015	0.00015	0.00028	0.00015	0.00015	0.00028	0.00055	0.00015
0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
0.00623	0.00851	0.00653	0.00808	0.00977	0.00666	0.01172	0.01052	0.00829
0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00005	0.00006	0.00005	0.00005	0.00007	0.00005	0.00008	0.00009	0.00005
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00026	0.00027	0.00026	0.00026	0.00028	0.00026	0.00029	0.00030	0.00026
0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014
0.00617	0.00844	0.00647	0.00802	0.00969	0.00660	0.01163	0.01042	0.00823
0.00263	0.00360	0.00263	0.00410	0.00566	0.00343	0.00470	0.00450	0.00343
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
5.79	6.27	4.49	4.73	6.55	6.00	7.55	6.81	6.81
5.79	6.27	4.49	4.73	6.55	6.00	7.55	6.81	6.81
0.00263	0.00360	0.00263	0.00410	0.00566	0.00343	0.00470	0.00450	0.00343
0.00050	0.00030	0.00110	0.00150	0.00019	0.00019	0.00310	0.00110	0.00170
0.00050	0.00030	0.00110	0.00150	0.00019	0.00019	0.00310	0.00110	0.00170
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00263	0.00303	0.00263	0.00222	0.00566	0.00343	0.00444	0.00343	0.00343
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00263	0.00303	0.00263	0.00222	0.00566	0.00343	0.00444	0.00343	0.00343



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane

TP/WS/BH
Depth (m)
Envirolab reference

SA1	TP3	TP6	TP7	TP8	TP15	TP16	TP17	TP19
0.20	0.10	0.20	0.10	0.40	0.30	0.20	0.10	0.30

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.01221	0.01574	0.01363	0.01506	0.01663	0.01352	0.02208	0.02015	0.01639
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.01271	0.01604	0.01473	0.01656	0.01673	0.01362	0.02518	0.02125	0.01809
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	1.22590	1.57680	1.37440	1.52140	1.66390	1.35280	2.23920	2.02560	1.65640
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please contact Envirolab.



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane
TP/WS/BH
Depth (m)
Envirolab reference

TP22	TP24	TP25	TP27	TP30	TP33	TP34	TP35	TP37
0.30	0.30	0.25	0.30	0.10	0.10	0.50	0.20	0.10

Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%
<i>Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>	

N	N	N	N	N	N	N	N	N
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If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
---------	---------	---------	---------	---------	---------	---------	---------	---------

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y
---	---

--	--	--	--	--	--	--	--	--

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥20%	
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%
Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥55%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11	≥0.1%	
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
Mutagenic HP11	≥1%	
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	
HP13 Sensitising	≥10%	

If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.								
0.00032	#VALUE!	0.00046	0.00032	0.00059	0.00046	0.00046	0.00059	0.00032
0.00138	0.00254	0.00196	0.00138	0.00232	0.00207	0.00117	0.00232	0.00262
0.00408	0.00558	0.00453	0.00448	0.00557	0.00525	0.00455	0.00516	0.00595
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00001	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00003
0.00283	#VALUE!	0.00283	0.00323	0.00364	0.00343	0.00364	0.00323	0.00343
0.00270	0.00330	0.00350	0.00240	0.00440	0.00310	0.00150	0.00460	0.00640
0.00010	0.00000	0.00000	0.00020	0.00050	0.00170	0.00010	0.00000	0.00140
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00015	0.00041	0.00028	0.00015	0.00041	0.00028	0.00028	0.00041	0.00015
0.00033	#VALUE!	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
0.00683	0.00893	0.00808	0.00693	0.01004	0.00841	0.00611	0.00981	0.01242
0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002
0.00019	#VALUE!	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00005	0.00005	0.00005	0.00005	0.00007	0.00006	0.00006	0.00005	0.00007
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00026	#VALUE!	0.00026	0.00026	0.00028	0.00027	0.00027	0.00026	0.00028
0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014
0.00677	0.00888	0.00802	0.00688	0.00996	0.00834	0.00604	0.00975	0.01232
0.00283	#VALUE!	0.00350	0.00323	0.00440	0.00343	0.00364	0.00460	0.00640
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00001	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00003
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.31	6.49	5.88	6.56	6.84	5.66	8.10	6.30	5.77
6.31	6.49	5.88	6.56	6.84	5.66	8.10	6.30	5.77
0.00283	0.00343	0.00350	0.00323	0.00440	0.00343	0.00364	0.00460	0.00640
0.00019	#VALUE!	0.00019	0.00020	0.00050	0.00170	0.00019	0.00019	0.00140
0.00019	#VALUE!	0.00019	0.00020	0.00050	0.00170	0.00019	0.00019	0.00140
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00283	0.00343	0.00283	0.00323	0.00364	0.00343	0.00364	0.00323	0.00343
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00283	#VALUE!	0.00283	0.00323	0.00364	0.00343	0.00364	0.00323	0.00343



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane

TP/WS/BH
Depth (m)
Envirolab reference

TP22	TP24	TP25	TP27	TP30	TP33	TP34	TP35	TP37
0.30	0.30	0.25	0.30	0.10	0.10	0.50	0.20	0.10

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.01319	#VALUE!	0.01632	0.01404	0.01903	0.01790	0.01285	0.01806	0.02390
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.01329	#VALUE!	0.01632	0.01424	0.01953	0.01960	0.01295	0.01806	0.02530
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	1.31960	#VALUE!	1.63200	1.40600	1.90810	1.80690	1.28570	1.80570	2.40400
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please cont:



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.00000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane
TP/WS/BH
Depth (m)
Envirolab reference

TP39	TP40	TP41	TP43	TP44	TP47	WS2	WS3	WS4
0.30	0.30	0.40	0.10	0.10	0.05	0.40	0.50	0.40

Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%
<i>Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>	

N	N	N	N	N	N	N	N	N
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If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
---------	---------	---------	---------	---------	---------	---------	---------	---------

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y
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If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

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If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.
All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥20%	
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%
Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥55%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
Mutagenic HP11	≥1%	
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	
HP13 Sensitising	≥10%	

If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.

0.00032	0.02342	0.00151	0.00046	0.00112	0.00046	0.00032	0.00032	0.00032
0.00138	0.03363	0.00426	0.00207	0.00657	0.00286	0.00307	0.00217	0.00318
0.00388	0.04050	0.00779	0.00638	0.01222	0.00651	0.01022	0.00689	0.01053
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00001	0.00001	0.00001	0.00013	0.00072	0.00007	0.00001	0.00001	0.00001
0.00263	0.03010	0.00485	0.00444	0.00586	0.00384	0.00727	0.00485	0.00747
0.00200	0.02171	0.00300	0.00230	0.01620	0.04950	0.00100	0.00110	0.00110
0.00090	0.00010	0.00040	0.00060	0.01620	0.00200	0.00010	0.00010	0.00010
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00015	0.02389	0.00134	0.00029	0.00096	0.00029	0.00015	0.00015	0.00015
0.00033	0.02191	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
0.00593	0.07050	0.01088	0.00874	0.02548	0.05608	0.01128	0.00806	0.01170
0.00002	0.00066	0.00002	0.00003	0.00004	0.00003	0.00002	0.00002	0.00002
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00005	0.01460	0.00009	0.00006	0.00016	0.00007	0.00006	0.00007	0.00007
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00026	0.01545	0.00030	0.00028	0.00039	0.00029	0.00027	0.00028	0.00028
0.00014	0.02171	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014
0.00587	0.05589	0.01079	0.00855	0.02461	0.05594	0.01121	0.00798	0.01163
0.00263	0.03010	0.00485	0.00444	0.01620	0.04950	0.00727	0.00485	0.00747
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00001	0.00001	0.00001	0.00013	0.00072	0.00007	0.00001	0.00001	0.00001
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
4.77	6.19	5.31	8.55	6.72	6.19	7.97	7.24	6.29
4.77	6.19	5.31	8.55	6.72	6.19	7.97	7.24	6.29
0.00263	0.03010	0.00485	0.00444	0.01310	0.04950	0.00727	0.00485	0.00747
0.00090	0.01460	0.00040	0.00060	0.01620	0.00200	0.00019	0.00019	0.00019
0.00090	0.01460	0.00040	0.00060	0.01620	0.00200	0.00019	0.00019	0.00019
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00263	0.03010	0.00485	0.00444	0.00586	0.00384	0.00727	0.00485	0.00747
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00263	0.03010	0.00485	0.00444	0.00586	0.00384	0.00727	0.00485	0.00747



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane
TP/WS/BH
Depth (m)
Envirolab reference

TP39	TP40	TP41	TP43	TP44	TP47	WS2	WS3	WS4
0.30	0.30	0.40	0.10	0.10	0.05	0.40	0.50	0.40

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.01303	0.13918	0.02155	0.01699	0.08665	0.06995	0.01914	0.01504	0.02044
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.01393	0.13928	0.02195	0.01759	0.10285	0.07195	0.01924	0.01514	0.02054
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	1.31220	13.91850	2.15940	1.70450	8.82730	7.01530	1.91450	1.50520	2.04450
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please cont:



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane
TP/WS/BH
Depth (m)
Envirolab reference

WS7	WS9	WS11	WS13	WS14	WS21	WS23	WS24	BH1
0.30	0.20	0.40	0.20	0.20	0.20	0.20	0.20	0.30

Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%
<i>Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>	

N	N	N	N	N	N	N	N	N
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If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
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Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y
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If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

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If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥20%	
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%
Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥55%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11	≥0.1%	
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
Mutagenic HP11	≥1%	
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	
HP13 Sensitising	≥10%	

If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.

0.00032	0.00059	0.00072	0.00032	0.00032	0.00095	0.00032	0.00098	0.00032
0.00138	0.00254	0.00200	0.00205	0.00160	0.00292	0.00262	0.00712	0.00183
0.00368	0.00498	0.00511	0.00496	0.00471	0.00570	0.00815	0.01290	0.00534
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00031	0.00001
0.00242	0.00283	0.00364	0.00303	0.00323	0.00343	0.00566	0.00626	0.00364
0.00100	0.00380	0.00120	0.00250	0.00120	0.00440	0.00210	0.01440	0.00560
0.00010	0.00060	0.00040	0.00010	0.00060	0.00050	0.00010	0.00680	0.00100
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00015	0.00041	0.00055	0.00015	0.00015	0.00068	0.00015	0.00084	0.00015
0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
0.00473	0.00883	0.00636	0.00752	0.00596	0.01017	0.01032	0.02748	0.01099
0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00005	0.00002
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00005	0.00005	0.00005	0.00006	0.00005	0.00007	0.00007	0.00018	0.00005
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00026	0.00026	0.00026	0.00027	0.00026	0.00028	0.00028	0.00042	0.00026
0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014
0.00467	0.00878	0.00631	0.00745	0.00590	0.01009	0.01024	0.02699	0.01093
0.00242	0.00380	0.00364	0.00303	0.00323	0.00440	0.00566	0.01440	0.00560
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00031	0.00001
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
7.16	6.36	6.41	6.86	7.14	6.19	6.96	7.00	6.68
7.16	6.36	6.41	6.86	7.14	6.19	6.96	7.00	6.68
0.00242	0.00380	0.00364	0.00303	0.00323	0.00440	0.00566	0.01440	0.00560
0.00019	0.00060	0.00040	0.00019	0.00060	0.00050	0.00019	0.00680	0.00100
0.00019	0.00060	0.00040	0.00019	0.00060	0.00050	0.00019	0.00680	0.00100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00242	0.00283	0.00364	0.00303	0.00323	0.00343	0.00566	0.00626	0.00364
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00242	0.00283	0.00364	0.00303	0.00323	0.00343	0.00566	0.00626	0.00364



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane

TP/WS/BH
Depth (m)
Envirolab reference

WS7	WS9	WS11	WS13	WS14	WS21	WS23	WS24	BH1
0.30	0.20	0.40	0.20	0.20	0.20	0.20	0.20	0.30

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00883	0.01670	0.01224	0.01438	0.01144	0.01993	0.01843	0.11978	0.01922
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00893	0.01730	0.01264	0.01448	0.01204	0.02043	0.01853	0.12658	0.02022
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.88420	1.67640	1.22810	1.43860	1.15010	1.99820	1.84370	12.04590	1.93220
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please cont:



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.00000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste, developed by Dr. Iain Haslock.

252332 - Browns Lane
TP/WS/BH
Depth (m)
Envirolab reference

BH2									
0.30									

Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%
<i>Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>	

N									
If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7									
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y
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If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥20%	
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%
Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥55%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11	≥0.1%	
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
Mutagenic HP11	≥1%	
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	
HP13 Sensitising	≥10%	

If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.									
0.00032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00160	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00451	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00303	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00270	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00040	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00015	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00033	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00726	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00002	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00019	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00005	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00026	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00720	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00303	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00303	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00040	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00040	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00303	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00303	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000



Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
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BH2									
0.30									

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.01399	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.01439	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Cresote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	1.40290	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please cont: