



Dicken Green Mill, Rochdale

Phase 2 Geo-Environmental Investigation, Risk Assessment and Remediation Strategy

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Client
MCI Developments Limited



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EXECUTIVE SUMMARY

Site Details

Location	End of Greenfield Lane, Queensway, between Iceland Foods to the north-east and Dicken Green residential housing estate to the south-west. Centred at approximate National Grid Reference 390070E 411890N.
Area	1.4Ha.
Topography	149 metres Above Ordnance Datum (AOD). Site is undulating with a steep slope down to the access route in the east. Steep slope down towards Rochdale Canal.
Current Site Use	Vacant land with concrete floor slabs from former mill / works building, concrete and tarmacadam car parking and live electricity substation.
Proposed Development	Residential development, access, parking, landscaping and associated works.

Site Setting

Main Historical Features	Onsite: Cotton Mill / Electrical Engineering Works, boiler house, chimney, lever/crane, gravel pit, embankments, allotment gardens, road, tank. Surrounding Area: Sand pits, gravel pits, allotment gardens, Sudden Brook, wells, garage, filter beds, spoil heaps, reservoirs, goit.
Geology / Hydrogeology	Artificial: Infilled ground recorded in the southeast of the site and adjacent to the east and south. Superficial: Devensian Glaciofluvial Deposits (Sand and Gravel). Secondary A Aquifer. Bedrock: Pennine Lower Coal Measures Formation (mudstone, siltstone and sandstone). Secondary A Aquifer.
Landfills / Infilled Ground	No recorded landfills. Potentially infilled ground identified on and offsite.
Coal Mining	The site is within a development high risk area. A coal mining risk assessment has been carried out under separate cover. Further assessment is required.
Site Reconnaissance	A site visit was undertaken on 6 th November 2025 confirming that the site conditions reflected that of the site reconnaissance undertaken on 11 th May 2021.
Ecological Assessment	Japanese knotweed Stand: along (south) eastern boundary. Himalayan Balsam: Northern area of site (numerous seedings present) Dense vegetation present along all boundaries.

Ground Investigation Work Undertaken

Date of Investigation	Between 18 th and 25 th February 2026.
Intrusive Investigation Work Undertaken	10no. window sample boreholes. 10no. mechanically excavated trial pits. 3no. cable percussion boreholes. Contamination and geotechnical testing. Gas and groundwater monitoring (ongoing). Soakaway Testing.

Ground Conditions

Made Ground	Concrete and tarmacadam encountered in all locations excluding CP103, TP107 and TP108. Beneath the hardstanding made ground is predominantly variably gravelly, variably silty or clayey sand to between 0.25-1.30mbgl. Where tarmacadam was encountered it was predominantly underlain by sandy gravel, possible mot. Made ground across site encountered anthropogenic material of brick, concrete, coal, wood and timber fragments, ash and clinker.
Superficial	Superficial strata comprise gravelly sand or sandy gravel interbedded with bands of firm slightly gravelly slightly sandy clay.
Groundwater	Encountered at 3.77mbgl in CP102 and between 9.43-9.47mbgl in CP103.
Permeability	The permeability at test depth has been calculated within an order of magnitude of 10^{-4} to 10^{-5} m/sec

Geotechnical Assessment

Allowable Bearing Pressure	An ABC of 100kN/m ² can be obtained in the loose to medium dense sands from c.1.20mbgl.
Anticipated Foundation Type	Traditional shallow foundations recommended from approximately 1.20mbgl. If loose/poor ground is encountered, foundations may need to be deepened / widened or ground replaced with compacted granular material.
Slope Stability	The slope forming the eastern boundary to the site is stable. The slope leading down to the Rochdale Canal in the north of the site has varying profiles and is safe when the angle of repose is at a maximum of 33.5° (1v:1.5h) such as at the location of Profile B-B', but in sections where it is steeper, such as Profile C-C' where it is at a slope of 1v:0.73h (54°), is not stable. The northern slope will require reprofiling/stabilisation.
Other Considerations	Temporary supports of excavations may be required. Detailed design should be carried out by structural engineer. Concrete Requirements DS1-AC-1.

Contamination Risk Assessment

Pollutant Linkage		Risk	Assessment
1	Asbestos.	Moderate	Asbestos encountered which may be a risk in future garden areas. Recommendation: Remediation to include a 600mm capping layer in all gardens required.
		Moderate / Low	Asbestos encountered which may be a risk in future POS areas. Recommendation: Remediation to include nominal 150mm capping layer in all POS areas required.
	PAHs, petroleum hydrocarbons, PCBs and VOCs / SVOCs.	Low	No metals, hydrocarbons, PAHs, PCBs and VOCs / SVOCs encountered above assessment criteria. Recommendation: No remediation required.
2	Petroleum hydrocarbons, SVOCs, VOCs, naphthalene	Low	No hydrocarbons, PAHs and VOCs / SVOCs encountered above assessment criteria. Recommendation: No remediation required.
3	Hazardous / ground gas: methane, carbon dioxide.	Moderate / Low	Unlikely probability of hazardous ground gas given gas monitoring results. CS1 conditions have been encountered. No source of gas within the made ground identified during site investigation. Recommendations: No remediation required.
4	Metals, PAHs, petroleum hydrocarbons.	Low	Groundwater sampling not undertaken as no significant evidence of contamination identified in the soil sample results. Recommendation: No remediation required.
5	Naphthalene, petroleum hydrocarbons.	Moderate	Elevated TPH encountered at pipeline depth. Recommendation: Utility provider risk assessment to be completed. The site will likely require barrier piping.

Waste Assessment

The following samples summarised in Table 8-4 are classified as hazardous.

Location and Depth	Contaminant	Total Number of Samples	Hazard Property
TP110 (0.15-0.65)	pH	22	HP8 Corrosive
WS104 (0.28-0.63)			

Recommendations and Remedial Strategy

PL	Recommendation
1	Residential Gardens: 600mm environmental cover system required.
	POS Areas: Nominal 150mm topsoil cover required.
2	No remediation required.
3	Completion of gas monitoring, gas protection measures unlikely to be required.
4	No remediation required.
5	Potable water pipe assessment required.

Other Considerations

Unexpected Contamination
Decommissioning of Boreholes
Grubbing Out of Inground Structures
Re-use of Site Generated Material
Stockpile Management
Disposal
Control of Water
Health and Safety Considerations
Asbestos in Soils Management Plan

Other Work

Validation of Imported / Site Won Soil
Site Completion Report

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Appendix K – EN 1997 (EC7) Design Approach & Partial Factors

Appendix L – Limitstate:GEO Slope Stability Reports

Appendix M – References

1. Introduction

1.1. Background

LK Consult Ltd (LKC) has been commissioned to carry out a Phase 2 Geo-Environmental Investigation, Risk Assessment and Remediation Strategy for Dicken Green Mill, Rochdale. The investigation was undertaken in support of a future planning application to develop the site for residential use.

The following work has previously been undertaken:

- Preliminary Risk Assessment (PRA) report, undertaken by LKC (Ref: LKC251701-R1, dated May 2026).
- Desk-Based Coal Mining Risk Assessment report, undertaken by LKC (Ref: LKC251701-R1, dated May 2026).

This investigation has been undertaken to confirm the ground conditions below the site and to allow a contamination and geotechnical and slope stability assessment to be undertaken.

The investigation will aim to confirm the risks of the potential pollutant linkages identified in the PRA and recommend further assessment / remediation, as required.

A coal mining site investigation has also been undertaken under a separate cover to assess coal mining risk (report ref. LKC251701-B2-CMSI-Dicken Green Mill, Rochdale-R0, dated May 2026).

A summary of the site details is presented in Table 1-1. Figure 1 indicates the site location and boundary plan. Figure 2 indicates a draft of the proposed development, some changes may occur.

Location	End of Greenfield Lane, Queensway, between Iceland Foods to the north-east and Dicken Green residential housing estate to the south-west. Centred at approximate National Grid Reference 390070E 411890N.
Area	1.4Ha.
Topography	149 metres Above Ordnance Datum (AOD). Site is undulating with a steep slope down to the access route in the east. Steep slope down towards Rochdale Canal.
Current Site Use	Vacant land with concrete floor slabs from former mill / works building, concrete and tarmacadam car parking and live Electricity Substation.
Proposed Development	Residential development, access, parking, landscaping and associated works.

Table 1-1: Summary of site details.

2. Summary of Preliminary Risk Assessment (PRA)

2.1. Phase 1 Preliminary Risk Assessment (PRA)

Pertinent information has been summarised from the PRA in Table 2-1.

Main Historical Features	Onsite: Cotton Mill / Electrical Engineering Works, boiler house, chimney, lever/crane, gravel pit, embankments, allotment gardens, road, tank. Surrounding Area: Sand pits, gravel pits, allotment gardens, Sudden Brook, wells, garage, filter beds, spoil heaps, reservoirs, goit.
Geology / Hydrogeology	Artificial: Infilled ground recorded in the southeast of the site and adjacent to the east and south. Superficial: Devensian Glaciofluvial Deposits (Sand and Gravel). Secondary A Aquifer. Bedrock: Pennine Lower Coal Measures Formation (mudstone, siltstone and sandstone). Secondary A Aquifer.
Landfills / Infilled Ground	No recorded landfills. Potentially infilled ground identified on and offsite.
Coal Mining	The site is within a development high risk area. A desk-based coal mining risk assessment has been carried out under separate cover. Further assessment is required.
Site Reconnaissance	The south and centre of site is covered in mixed hardstanding of concrete (predominantly central) and tarmacadam (to the east and west). There is evidence of a former building in the centre. There is a slope on the northern half or site sloping downwards towards the north to a lower area of site also hardstood with concrete and tarmacadam. The slope is vegetated with immature trees and limited brambles. In the east of site is an electrical substation suspected to be cut off due to state of disrepair.
Ecological Assessment	Japanese knotweed Stand: along (south) eastern boundary. Himalayan Balsam: Northern area of site (numerous seedlings present). Dense vegetation present along all boundaries.

Table 2-1: Summary of site details, historical review, environmental settings, and site reconnaissance.

Table 2-2 summarises the geotechnical constraints.

Coal Mining	A coal mining risk assessment has been carried out under separate cover.
Slope Stability	Slope identified on site.
Envirocheck Ground Stability Hazards	Moderate Risk identified for Compressible Ground. Further action required as fallen trees noted in the north-east of site.
Made Ground	Unknown depth and constituent of made ground across the site.
Superficial	Unknown strength of soils for foundation design.
Bedrock	Unknown depth to bedrock.
Groundwater	Unknown depth and variability of groundwater.
Plasticity	No clay recorded onsite.
Sulphate	Unknown sulphate content of the made ground and natural. Ash likely due to 2018 fire.
Road / Pavement Design	Unknown CBR values for footpath and road design.

Table 2-2: Summary of geotechnical constraints.

2.2. Conceptual Model

The preliminary contamination conceptual model using contaminant-pathway-receptor linkages based on guidance in LCRM¹ has been summarised in Table 2-3.

Each pollutant linkage is described along with an assessment of the risk based upon guidance on probabilities and consequences outlined in CIRIA C552². The risk matrix is provided in Appendix A.

The conceptual model is based on the future use of the site (post development), in line with proposed development scheme.

Due to the minor consequence associated with the phytotoxic effect to flora (i.e., loss of plants in a landscaping scheme), the overall risk for most sites will be very low to low. Where soils contain significant concentrations of heavy metals, in general there will other pollutant linkages (i.e., the risk to human health) that will trigger the requirement for remediation (e.g., a clean environmental cover system). As such the risk to flora associated with phytotoxic contaminants will not be considered further.

The risk to buildings associated with elevated sulphate will be considered as part of the geotechnical assessment and will not be included in the contamination risk assessment.

PL	Contaminants of Concern (source)	Pathway	Receptor	Probability	Consequence	Risk	Assessment and Recommendations
1	Asbestos, metals, PAHs, petroleum hydrocarbons (cotton mill, deep made ground, garage).	Dermal contact. Inhalation of soil, fibres, and dust.	Future site users. Offsite receptors.	Likely	Medium	Moderate	Likely due to site history and large range of contaminants possible. Recommendation: Intrusive investigation required to include soil sampling.
	PCBs and VOCs / SVOCs (electrical engineering works, substation).	Ingestion of soils, dust, home-grown produce, soil attached to home-grown produce. Windblown dust.		Low Likelihood		Moderate / Low	Low likelihood given concrete hardstanding across the site and site history. Recommendation: Intrusive investigation required to include soil sampling.
2	Petroleum hydrocarbons, SVOCs, VOCs, naphthalene (cotton mill, deep made ground, garage).	Inhalation of vapours. Migration via permeable strata and preferential pathways.	Future site users. Offsite receptors.	Likely	Medium	Moderate	Likely due to volatiles possible across the site and more likely in areas of historic use. Recommendation: Intrusive investigation required to include soil sampling and PID testing.
3	Hazardous / ground gas: methane, carbon dioxide (deep made ground, offsite potentially infilled features, potentially shallow coal seams).	Migration via permeable strata and preferential pathways. Inhalation of gas. Explosion in confined spaces.	Future site users. Buildings. Offsite receptors.	Low Likelihood	Severe	Moderate	Low likelihood due to range of infilled features on and off site and underlying geology with potentially worked shallow coal seams onsite. Recommendations: Gas monitoring required.
4	Metals, PAHs, petroleum hydrocarbons (cotton mill, deep made ground, garage).	Surface run-off. Migration via permeable strata and preferential pathways. Perched waters migration.	Groundwater (Secondary A Aquifers).	Likely	Medium	Moderate	Likely due to potential contamination identified and permeable nature of the superficial and bedrock strata. Recommendations: Groundwater sampling, subject to ground conditions encountered and soil contamination results.
5	Naphthalene, petroleum hydrocarbons (cotton mill, deep made ground, garage).	Permeation of pipes. Ingestion of tainted water supply.	Future site users. Water pipes.	Likely	Medium	Moderate	Likely due to probable deep made ground making contaminants likely at pipeline depth. Recommendations: Sampling and analysis of soils at anticipated pipeline depths (c. 0.75-1.35mbgl). Water pipe assessment required.

Table 2-3: Preliminary Contamination Conceptual Model.

3. Ground Investigation

3.1. Site Investigation Design and Methodology

The investigation was carried out between 18th and 25th February 2026 and comprised the following:

- 10no. window sample boreholes drilled to between 4.14-5.45 metres below ground level (mbgl) (ref. WS101 to WS110).
- 10no. trial pits (using JCB) excavated to 1.70-2.80mbgl (ref. TP101 to TP110).
- 3no. cable percussion boreholes drilled to 10.45 (ref. CP101 to CP103).

All site investigation locations are shown in Figure 3.

The locations were chosen to allow adequate assessment of ground conditions across the site. Table 3-1 details the site investigation locations.

Site Investigation Locations	Rationale
TP101-TP110	General site coverage.
TP108	Investigation into the slope on the north-west of site.
TP109, WS109, WS110, CP102	Former canal and general site coverage.
WS102	Former tank.
CP101-CP103	Investigation of deep ground conditions to assess slopes onsite.
WS106	Electrical substation.

Table 3-1: Summary of targeted and general sampling locations.

The electricity substation was still operational, and sampling could not be undertaken close to the feature. Further assessment may be required in this area if the substation is to be removed.

The number of site investigation points corresponds to approximately one location per 25m square centres. This is considered to be a conservative sampling density and is in line with BS10175³ for a 'main investigation'.

All profile logs are provided in Appendix B and are in line with BS14688-1⁴ and BS5930⁵.

3.2. Well Installations

5no. of the boreholes (WS101, WS104-WS106 and WS110) were installed with monitoring wells for gas and groundwater monitoring. 3no. of the boreholes (CP101 to CP103) were installed with monitoring wells for groundwater monitoring only. Monitoring wells were installed in accordance with BS10175 and CIRIA C665⁶ and generally comprised 0.50-1.0m plain pipe over a length of slotted pipe surrounded by pea gravel and sealed at the top with bentonite and concrete.

Well installation details are provided in Profile Logs in Appendix B.

3.3. Sampling Protocol

3.3.1. Soil Sampling (Contamination)

Standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on site investigation⁷.

Soil was collected for onsite testing for total volatile organic compounds (TVOCs) using a photoionisation detector (PID) fitted with a 10.6eV lamp and moisture trap. A plastic zip bag was half filled with soil allowing a suitably sized headspace. The bag was sealed and stored for at least 20 minutes before being tested. Results of the PID readings are presented on the profile logs (Appendix B). The onsite monitoring was carried out in line CIRIA C665⁸ to aid in screening samples for volatile analysis.

Soil samples of approximately 500g were recovered in amber jars and plastic tubs. All the samples were sent to DETS laboratory for chemical testing.

Many of the contamination tests are UKAS or MCERTS accredited and further details are given in the Certificate of Analysis presented in Appendix C. Table 3-2 shows the soil testing undertaken.

Testing	No. Samples	Justification
Metals / metalloids, pH, water soluble sulphate, speciated PAHs, SOM and asbestos screen.	11	A basic suite with a broad selection of contaminants where no significant evidence of contamination was identified (except for frequent to rare ash, clinker, wood fragments, brick fragments, plastic, metal and glass).
Metals / metalloids, pH, water soluble sulphate, cyanide suite, phenol, TPHCWG, BTEX, MTBE, speciated PAHs, SOM and asbestos screen.	8	Although no evidence of contamination identified, detailed suite undertaken to confirm the absence of contamination.
Metals / metalloids, pH, water soluble sulphate, cyanide suite, phenol, TPHCWG, BTEX, MTBE, speciated PAHs, VOCs, SVOCs, SOM and asbestos screen.	2	A more detailed suite to confirm the absence of contamination.
Metals / metalloids, pH, sulphate, cyanide suite, TPHCWG, BTEX, MTBE, speciated PAHs, phenol, VOCs, SVOCs, PCBs and asbestos screen.	3	A more detailed suite (inc. PCBs) nearby the electrical substation.

Table 3-2: Summary of Soil Testing.

Notes:

If asbestos present during screen identification and quantification will be undertaken.

Metal/metalloids=arsenic, cadmium, chromium, (total and hexavalent), copper, lead, mercury, nickel, selenium, vanadium, zinc, and boron; TPHCWG=carbon banded and aromatic/aliphatic split petroleum hydrocarbons; PAH=polycyclic aromatic hydrocarbons, BTEX=benzene, toluene, ethylbenzene, and xylenes; MTBE=Methyl tert-butyl ether, VOC=Volatile organic Compounds, SVOC= Semi Volatile Organic Compounds, PCB=polychlorinated biphenyls, SOM=Soil Organic Matter.

3.3.2. Soil Sampling (Geotechnical)

Soil samples taken during the investigation were collected in tubs and bulk bags and sent to Murray Rix Laboratories / DETS Laboratories for geotechnical testing.

Further details are given in the laboratory report presented in Appendix D. Table 3-3 shows the geotechnical testing undertaken.

Testing	No. Samples
Atterberg Limits (plasticity testing)	2
Shear Box	2
Particle Size Distribution (PSD)	14
BRE SD1 Short Suite	3

Table 3-3: Summary of Geotechnical Testing Undertaken.

3.3.3. Water Sampling / Leaching Testing

Groundwater sampling / leaching testing was not carried out as part of this investigation.

Despite a moderate risk identified in the Preliminary Conceptual Site Model, no evidence of potential mobile phase contamination was noted during the site investigation therefore LKC did not consider testing to be required. This is discussed further in Section 7.4.

3.4. In-situ Testing

3.4.1. Geotechnical Testing

In-situ geotechnical tests were performed in the boreholes to further characterise the sub-soil conditions. The following tests were undertaken:

- Standard Penetration Tests (SPTs) were performed in the window sample boreholes and cable percussion boreholes at approximately 1m intervals.

In total, 4no. pocket penetrometer tests (giving undrained shear strength) were performed in the cohesive strata where encountered.

The results are shown on the exploratory hole logs provided within Appendix B.

3.4.2. Soakaway Tests

Soakaway tests were undertaken in TP101, TP102 and TP104 in accordance with BRE Digest 365⁹ in machine excavated trial pits. The arisings were logged in accordance with BS14688-1¹⁰ and BS5930. The results are presented in Appendix E.

3.5. Gas Monitoring

All the installed boreholes have been monitored for gas. Six visits have been undertaken over a 3-month period.

Monitoring was undertaken using a landfill gas meter in accordance with the monitoring protocol outlined in CIRIA C665¹¹ (flow rate measured first). The monitoring was undertaken over a range of weather conditions (including low and falling barometric pressure and during rainfall) to demonstrate worst-case conditions.

The gas monitoring results are reproduced in full in Appendix F.

4. Ground Conditions

4.1. Geology

The ground conditions beneath the site are summarised below. Logs are provided in Appendix B.

4.1.1. Made Ground

South of site

Made ground was recorded in all locations. In the main area of site (south-east) beneath the historical mill, made ground is encountered to 0.25-1.30mbgl. Made ground in this area comprised concrete to 0.08-0.28mbgl over brown or light brown gravelly variably clayey or silty sand with brick, concrete, coal fragments, ash and clinker to between 0.25-1.30mbgl. (TP101, TP103, TP105, TP106, TP110, WS102 to WS108 and CP101)

Areas of tarmacadam (TP102, TP104, WS101 and WS109) were encountered to 0.10mbgl and are underlain by sandy gravel to 0.20-0.60mbgl (TP102, TP104 and WS109). The gravel in TP102 is underlain by made ground of gravelly sand with brick, coal and glass fragments to 0.50mbgl (similar to below the concrete described above). Beneath the tarmacadam in WS101 is made ground of gravelly slightly silty sand with brick and concrete fragments to 0.48mbgl.

TP107 and CP103 encountered made ground between 0.80 to 1.20mbgl comprising gravelly slightly silty sand with frequent whole bricks, brick and concrete fragments.

North of site

In the north-west of site (TP109) encountered made ground to 2.80mbgl comprising gravelly variably silty sand with whole bricks, brick fragments and ash.

WS109 and WS110 encountered made ground to 1.30 and 2.80mbgl respectively. In WS109 the tarmacadam is underlain by light grey sandy gravel to 0.30mbgl then brown gravelly sand with frequent brick and concrete fragments to 1.30mbgl.

Made ground in WS110 encountered dark grey gravelly silty sand with frequent brick fragments and occasional ash and clinker to 1.80mbgl then a layer of soft black organic slightly gravelly sandy silt with brick, wood, glass and concrete fragments to 2.80mbgl.

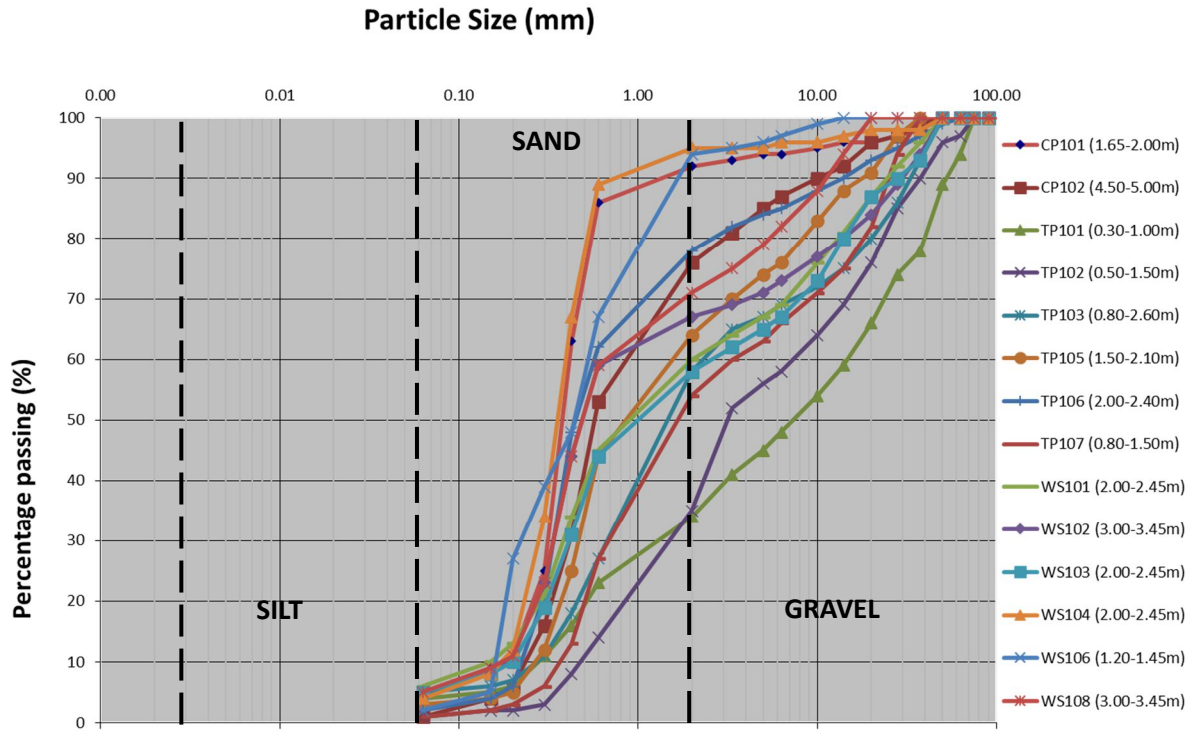
CP102 encountered similar strata to WS110, Tarmacadam to 0.10mbgl, gravelly slightly silty sand with concrete and brick fragments to 0.30mbgl, then very loose to loose organic black sandy slightly silty gravel with brick, wood, glass and concrete fragments to 2.00mbgl.

TP108 was excavated into the slope present on the south-east third of site and comprised gravelly silty sand with occasional rootlets, brick fragments and rare whole bricks.

4.1.2. Natural Strata

Superficial strata comprised horizons of gravelly sand or sandy gravel interbedded with bands of firm slightly gravelly slightly sandy clay. Results of samples which were tested for Particle Size Distribution curves confirmed the site descriptions and classes the granular strata as a slightly silty, variably gravelly sand. The grading curves are shown as Graph 4-1

Variably gravelly variably sandy clay is encountered between 3.90-4.30mbgl in CP102, between 7.50-7.90bgl in CP103 and between 2.20-2.30mbgl in TP107.



Graph 4-1: Combined PSD Gradings.

4.1.3. Contamination

There was no visual / olfactory evidence of hydrocarbons or volatile contaminants in any locations. The PID recorded a maximum of 2.5ppm TVOC in the samples.

4.1.4. Obstructions

No obstructions were identified within any investigation location.

4.2. Groundwater

4.2.1. Groundwater Levels

Groundwater was not encountered in any locations during drilling or trial pitting.

Groundwater level monitoring within the borehole wells has been undertaken on six occasions. An oil-water interface probe was used to detect the presence of free phase hydrocarbons within each borehole. Groundwater monitoring data is provided in Table 4-1 below and in Appendix F.

Borehole Reference	Visit Number	Groundwater Level (mbgl)	Base of Well (mbgl)
CP101	1	Dry	9.11
	2	Dry	3.9
	3	Dry	9.55
	4	Dry	3.75
	5	Dry	4.9
	6	Dry	2.8

Table 4-1: Summary of groundwater level monitoring data.

Borehole Reference	Visit Number	Groundwater Level (mbgl)	Base of Well (mbgl)
CP102	1	3.77	4.83
	2	Dry	4.71
	3	Dry	9.18
	4	3.9	3.8
	5	Dry	9.45
	6	Dry	3.65
CP103	1	9.47	4.85
	2	9.43	2.8
	3	9.45	4.87
	4	9.45	4.67
	5	Dry	9.15
	6	Dry	3.8
WS101	1	Dry	9.51
	2	Dry	3.69
	3	Dry	4.83
	4	Dry	2.8
	5	Dry	4.93
	6	Dry	4.69
WS104	1	Dry	9.21
	2	Dry	3.91
	3	Dry	9.64
	4	Dry	3.67
	5	Dry	4.89
	6	Dry	2.82
WS105	1	Dry	4.93
	2	Dry	4.85
	3	Dry	9.14
	4	Dry	3.9
	5	Dry	9.51
	6	Dry	3.7
WS106	1	Dry	4.85
	2	Dry	2.8
	3	Dry	4.89
	4	Dry	4.68
	5	Dry	9.04
	6	Dry	3.9
WS110	1	Dry	9.43
	2	Dry	3.66
	3	Dry	4.85
	4	4.3	2.8
	5	Dry	4.87
	6	Dry	4.67

Table 4-1 (continued): Summary of groundwater level monitoring data.

4.2.2. Contamination

No evidence of contamination was identified in the groundwater during investigation work or monitoring. No free phase hydrocarbons were detected.

4.3. Permeability Tests

4.3.1. Soakaway Tests

Soakaway Tests were carried out in TP101, TP102 and TP104 within the natural gravelly sand (sandy gravel in TP101) strata between 0.30-0.60mbgl and 1.70-2.00mbgl.

In all locations three repeats could be carried out. The results of the soakaways are presented in Appendix E.

BRE365¹² indicates that the calculation of the soil infiltration rate is made from the time taken for the water level to fall from 75% to 25% effective storage depth in each pit.

$$\text{Soil infiltration rate, } f = \frac{V_{p75-25}}{a_{p50} \times t_{p75-25}}$$

Where:

V_{p75-25} = the effective storage volume of water in the trial pit between 75% and 25% effective depth.

a_{p50} = the internal surface area of the trial pit up to 50% effective depth including the base area.

t_{p75-25} = the time for the water level to fall from 75% to 25% effective depth.

Based on the results of the soakaway tests, the permeability at test depth has been calculated within an order of magnitude of 10^{-4} to 10^{-5} m/sec.

5. Geotechnical Assessment

5.1. Proposed Development

It is understood that the proposed development will comprise low rise residential dwellings with associated landscaping and infrastructure. Details of the proposed loadings are not known and therefore a line loading of 75kN/m has been assumed for preliminary assessment purposes only.

The finished ground levels have not been provided, and it is therefore anticipated that they will not vary significantly from current levels. However, should the development proposals or finished levels be altered then the comments/recommendations in this section may require revising.

The depths of any underground engineering works (sewers etc.) are unknown and therefore have not been considered in the following assessment. Any such works should be designed so as not to influence, or compromise, proposed or existing foundations or ground stability.

Given the nature of the proposed development the structure meets the criteria of Geotechnical Category 1 of Eurocode 7¹³.

Given the nature of the development the acceptable risk from settlement is a total settlement value of 25mm for a masonry structure.

5.2. Summary of Ground Conditions

Ground conditions identified at the site are detailed in Section 4.1, and typically comprises made ground to between 0.25 and 1.20mbgl comprising concrete over granular sub-base across majority of the site. The northern section of the site contains deeper made ground, to a maximum proven depth of 2.80mbgl in WS110, and comprises various layers of granular material (sand) with varying quantities of secondary and tertiary constituents of silt and gravel along with anthropogenic material including brick and ash.

Natural superficial strata typically comprises medium dense slightly silty, variably gravelly SAND to the completion depths of the exploratory holes.

5.3. Site Preparation

The site should be cleared and any vegetation below areas of proposed development stripped in accordance with GC 109 of the Manual of Contract Documents for Highways Works¹⁴. This should include:

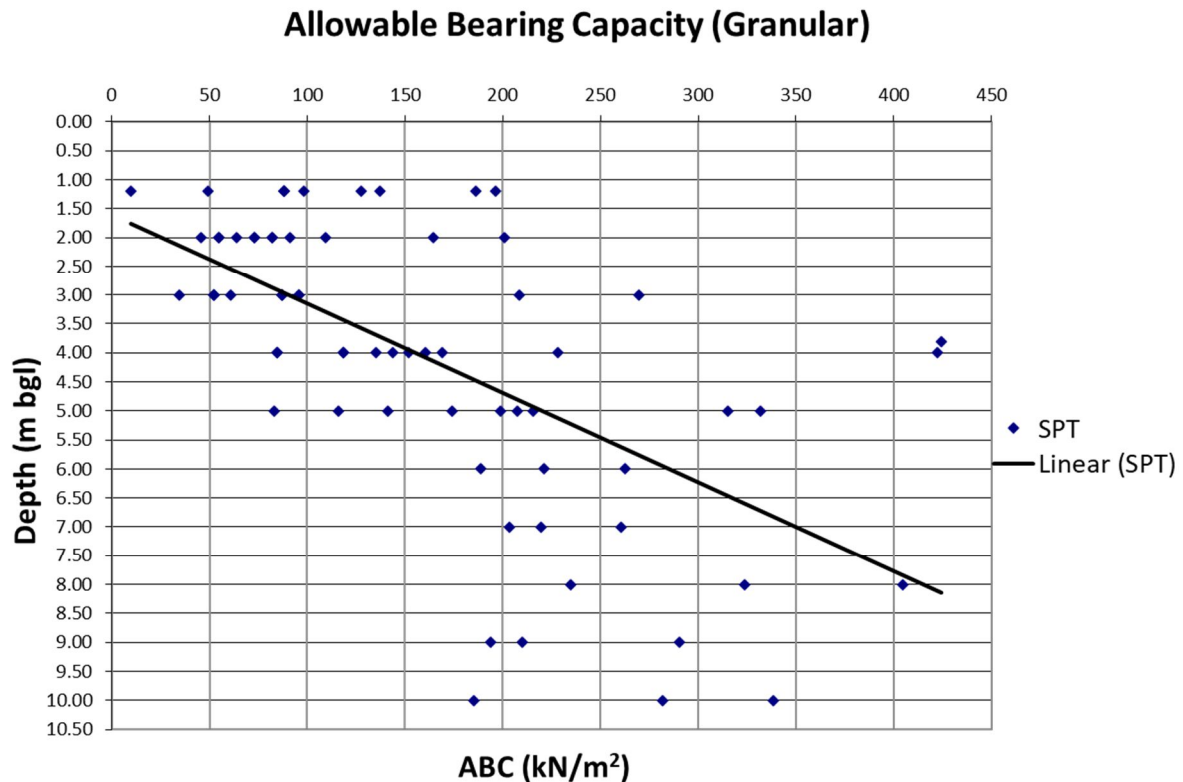
- Roots present below the footprint of proposed structures and infrastructure should be grubbed out and the resulting void infilled with suitable compacted engineered fill.
- Redundant services should be sealed off and grubbed out and replaced with suitable compacted engineered fill; and,
- Buried structures and old foundations can be anticipated on site and former floor slabs and hardstanding is present. These should be broken out and excavated from below the proposed development footprint with the resulting void backfilled.

The near surface soils may potentially be disturbed by weathering and site traffic. Precautions should be taken to avoid this, as excessive disturbance may result in more onerous floor slab design, road cap thickness and increased amount of site disposal etc.

5.4. Foundation Conditions and Bearing Capacity

5.4.1. General

The natural granular material has been assessed using in-situ testing by SPT to obtain the Allowable Bearing Capacity (ABC) of the material. The results of the testing have been plotted against depth and are shown in Graph 5-1.



The modified plasticity index as detailed in Chapter 4.2-D5 of the NHBC standards (modified plasticity index = plasticity index x % less than 425µm sieve / 100%) returns a modified plasticity index of 17%, characterising the clay as having a low volume change potential.

5.4.3. Strip Foundations

Strip foundations should be constructed at least 150mm into the underlying loose to medium dense sand encountered below 1.20mbgl. At this depth an Allowable Bearing Capacity of 100kN/m² can be obtained. Should loose ground be encountered, foundations may need to be deepened/widened or ground excavated and replaced with compacted granular material.

5.4.4. Ground Improvement

Should greater ABCs be required then the use of ground improvement techniques such as vibro granular columns will allow shallow foundations to be utilised within the loose to medium dense SAND. The vibro granular columns should provide an Allowable Bearing Capacity of around 150kN/m² but will also remove variability within the shallow strata.

Specialist advice should be sought from a suitably experienced contractor with regard to whether the ground conditions are suitable, the allowable bearing capacity that can be achieved and settlements.

It should be noted that the stone columns provide a pathway for gas and vapour migration, and additional mitigation measures may be required to help prevent the ingress into properties.

5.5. Ground Floor Slabs

Warranty providers such as NHBC will require suspended floor slabs where Made Ground is in excess of 600mm. Due to the presence of varying thickness' up to 1.20m depth of Made Ground across the site (in the north of the site the made ground extends to depths of 2.80mbgl), it is considered that a suspended floor slab will be required for the proposed structures.

5.6. Pavement Construction

Topsoil is not suitable for use as a sub-grade. Untreated made ground is considered unsuitable as a sub-grade due to its potential variability and potentially low strength/high compressibility. It should be removed to a depth of 0.5m below formation level and sorted to remove any unsuitable or deleterious materials. The sub formation should be rolled, and suitable excavated material can then be replaced, up to formation level, in fully compacted thin layers. Any deficit should be made up with suitable imported fill compacted as above. Following this treatment an overall design CBR of 2-5% should be available, although this will require confirmation through in-situ CBR tests.

Based on the results of laboratory PSD and plasticity index testing, the soils are not considered frost susceptible.

5.7. Drainage

The presence of substantial depths of made ground across the site may result in settlement. It is therefore recommended that drain runs are designed using steeper gradients and flexible joints to allow for some differential settlement.

The soil infiltration tests show soakage potential for the sands and it is considered that the site will be suitable for the application of soakaway drainage for the disposal of surface water runoff.

5.8. Concrete Durability

Based upon the results of the chemical analyses (Appendix C) of 24no. samples, subsurface concrete can be designed in accordance with Design Sulphate Class DS-1, Aggressive Chemical Environment for Concrete Classification (ACEC) AC-1 in accordance with the recommendations provided in BRE Special Digest 1 (2005).

Within the made ground at the location of WS108 in the north of the site, an elevated reading of 730mg/l of SO₄ was recorded at 0.25mbgl. Consideration been given to increasing the AC class to AC-2 in this location however an additional sample tested at 1.30mbgl at this location was not elevated. Taking the average of the highest 20% of the sulphate samples as the design value, in accordance with guidance in BRE SD1, a class of DS-1, AC-1 is considered applicable for the site.

5.9. Excavations

Site observations indicated that excavations should be feasible in the near surface with normal plant, however obstructions were identified in the near surface including former foundations and former floor slabs. It is anticipated that any obstructions will be grubbed out during the reduced level dig for the sub structure works.

Generally exploratory holes were stable but due to the natural deposits comprising granular strata, the short and long term stability of near vertically sided excavations cannot be guaranteed and random and sudden instability within these soils should be anticipated. All excavations should be supported or battered back in accordance with guidance contained in CIRIA R97¹⁵.

5.10. Construction Activity and Inspection

The following activities and inspections should be incorporated into the site works:

- Due to the variability of the soils at the site, it is recommended that sufficient allowance is made for the inspection of formation and sub formations to foundations and pavement construction.
- Excavations where access is required should be subject to a risk assessment from a competent person and where appropriate mitigation measures such as benching back the sides or use of support systems in accordance with CIRIA R97¹⁶ utilised.
- De-watering may be required, especially following periods of heavy rainfall. Removal of surface water and water within trenches should be possible with conventional sump pumping. Discharge of any water should be agreed with the relevant regulatory body and be undertaken under a trade effluent discharge, where required. Measures to remove silt and suspended solids may be required, and consideration should be given to provision of space for settling tanks or an attenuation pond.
- Where access to confined spaces is required appropriate mitigation measures should be addressed within the Construction Stage Health and Safety Plan. Particular account should be taken of the gas results.
- The presence of potential contamination and mitigation measures should be addressed as part of the Construction Stage Health and Safety Plan and should include measures to design out the risks, reduce their impact and finally the use of Personnel Protective Equipment (PPE).

6. Slope Stability Assessment

6.1. Soil Parameters

The following parameters have been derived from field work and laboratory data. Assumptions based on field data and relevant published values will also be explained below. The results of geotechnical testing are discussed in Section 4 and provided in full in Appendix D.

Geotechnical parameters for design have been derived from the in-situ and laboratory testing results and based on reasonable assumptions where necessary, shown in Table 6-1 below:

Soil Unit	Bulk Density γ (kN/m ³)	Saturated unit weight γ_{sat} (kN/m ³)	Drained Shear Strength Values		Undrained Shear Strength s_u (kPa)
			ϕ' (°)	c' (kN/m ²)	
MADE GROUND: Concrete	23 ^{\$}	23 ^{\$}	0 ^{\$}	0 ^{\$}	10,000 ^{\$}
MADE GROUND: Tarmacadam	23 [#]	23 [#]	0 [#]	0 [#]	1,000 [#]
MADE GROUND: Granular sub-base	18 ^{\$}	21 ^{\$}	45 ^{\$}	0 ^{\$}	0 ^{\$}
MADE GROUND: Loose organic black sandy GRAVEL.	14 ^{\$}	19 ^{\$}	28.5 ^{&}	0	0
Loose SAND	18 ^{\$}	21 ^{\$}	28.5 ^{&}	0 ^{\$}	0 ^{\$}
Medium dense SAND	16 ^{\$}	20 ^{\$}	32 ^{&+}	3 ⁺	0
Dense SAND	18 ^{\$}	21 ^{\$}	45 ^{\$}	0 ^{\$}	0 ^{\$}
Firm CLAY.	20 ^{\$}	20 ^{\$}	20 ^{\$}	3 ^{\$}	60 ^{\$&}

Table 6-1: Soil parameters used in stability modelling.

Note: + = Derived from laboratory testing; & = Derived from in-situ testing results. \$ = derived from Limitstate:GEO standard parameters, # = Obtained from published values

Any assumed values to represent unit weight for the encountered soils have been based on the conservative characteristic unit weight density values presented in British Standard BS 8004:2015 and Limitstate:GEO for the soils, where laboratory testing was not available.

The drained angle of shearing resistance for the granular soils was derived from the SPT testing results using the correlation of Peck et al. (1974). Shear box testing was carried out in the SAND.

The soil parameters used in the analysis are summarised in Table 6-1. From laboratory testing and observations, the soils were regarded as mainly granular for the purposes of the stability assessment. Both drained and undrained parameters were used in the stability assessments being representative of the soils short and long-term condition.

Groundwater level has been placed at a depth of 137mAOD to reflect depths to groundwater that have been recorded from the post siteworks monitoring.

6.2. Slope Analysis Methodology

The geometry and topography of the existing slopes was obtained using QGIS, a free, open source Geographic Information System. The location of the three profiles are shown on Figure 4A, Slope Profile Location Plan.

A slope stability risk assessment has been undertaken using the software application Limitstate:GEO, a general-purpose software program which is designed to analyse the Ultimate Limit State (ULS) for a range of geotechnical scenarios. The software determines the ULS using a computational limit analysis

techniques called Discontinuity Layout Optimization (DLO) to find critical failure mechanisms. The solution is presented as an 'adequacy factor' (applied to one or more loads or material strengths in the problem). This in effect allows the software to determine either a factor on load or a factor on strength for any problem.

6.2.1. Factors of Safety

The partial factors used are according to EC7 1997¹⁷ using Design Approach DA1, Combinations 1 and 2 (reduction of actions and soil parameters): in Combination 1, factors are applied to actions or loads, while in Combination 2 the factors are applied to the soil strength or resistances. In slope stability assessment, the Combination 2 is the most important as the risk of failure on slope is primarily controlled by its geotechnical parameters and presence of groundwater.

The EC7 utilisation was cut-off at 100% after applying partial factors for unacceptability of slope stability. A list of the partial factors used in the modelling for DA1 is presented in Appendix K in the summary of the slope stability modelling.

In addition, in parallel with EC7 utilisation outputs, limit state factors of safety have been calculated based on total restoring forces divided by the destabilising forces. In Limitstate:GEO, an Adequacy Factor is calculated which can be applied to any load or to the self weight of any body of material. The adequacy factor that is returned by LimitState:GEO when it has completed solving, is the factor by which all the specified loads/self weights must be multiplied by to cause collapse. An adequacy factor of 1.0 means the model is calculated to be exactly at the point of failure, any value lower than 1 and the model fails, any value higher than 1.0 and the model is safe.

For the purpose of this analysis an adequacy factor of 1.25 has been used as the cut off value for acceptability of the slope stability. An adequacy factor of safety of <1.25 is considered to be at risk of failure.

6.2.2. Analysis Output

Section A-A' is the profile along the eastern side of the site, near the current site entrance from Greenfield Lane, falling down to the neighbouring site. A variable load of 20kN/m² is placed on Greenfield Lane at the top of the slope to replicate construction traffic as well as traffic which will be using the access upon completion, such as delivery wagons and waste collection vehicles.

Sections B-B' and C-C' are profiles of the northern section of the site, leading down to Rochdale Canal. A variable load of 20kN/m² has also been placed at the crest of the slope in order to replicate loads imposed by construction site traffic.

The summary of modelling results are presented in Tables 6-2 to 6-4 and the results of the slope stability modelling are presented in Appendix L.

For each section, the whole slope profile is considered with five scenario results presented (unity, EC7 Design Approach 1 scenarios 1 and 2 Short term and Design Approach 1 scenarios 1 and 2 Long term). The worst case (lowest) result is considered the pertinent value for the stability of the slope.

The modelling results with regards to the short- and long-term stability of the slope, along all seven sections, have been assessed against a factor of safety (FoS) of 1.25.

6.2.3. Slope A-A'

Modelled Slip Circle	SCENARIO (Partial Factors)	Adequacy on Strength	Acceptability
Section A-A'	Unity	1.822	Safe
	EC7 DA1/1	1.822	Safe
	EC7 DA1/1 Longterm	1.606	Safe
	EC7 DA1/2	1.479	Safe
	EC7 DA1/2 Longterm	1.285	Safe

Table 6-2: Results of Limitstate:GEO Slope Stability Modelling Section A-A'.

The FoS of profile Section A-A' was calculated as 1.285, with a translational failure being the most likely failure mechanism. This exceeds the FoS of 1.25 considered to be the minimum acceptable for slope stability. It is therefore considered that the slope at this profile is stable.

6.2.4. Slope B-B'

Modelled Slip Circle	SCENARIO (Partial Factors)	Adequacy on Strength	Acceptability
Section B-B'	Unity	1.621	Safe
	EC7 DA1/1	1.621	Safe
	EC7 DA1/1 Longterm	1.621	Safe
	EC7 DA1/2	1.297	Safe
	EC7 DA1/2 Longterm	1.297	Safe

Table 6-3: Results of Limitstate:GEO Slope Stability Modelling Section B-B'.

The FoS of profile Section B-B' was calculated as 1.297, with a translational slide failure being the most likely failure mechanism. This section also includes a variable load of 20kN upon the crest of the slope to replicate weight of construction vehicles. This exceeds the FoS of 1.25 considered to be the minimum acceptable for slope stability. It is therefore considered that the slope at this profile is stable.

6.2.5. Slope C-C'

Modelled Slip Circle	SCENARIO (Partial Factors)	Adequacy on Strength	Acceptability
Section C-C'	Unity	0.5562	Unsafe
	EC7 DA1/1	0.5562	Unsafe
	EC7 DA1/1 Longterm	0.5562	Unsafe
	EC7 DA1/2	0.445	Unsafe
	EC7 DA1/2 Longterm	0.445	Unsafe

Table 6-4: Results of Limitstate:GEO Slope Stability Modelling Section C-C'.

Slope Profile C-C' is very steep, with an angle of 54° (1v:0.73h). The FoS of profile Section C-C' was calculated as 0.445, with a translational slide failure being the most likely failure mechanism. This falls below the FoS of 1.25 considered to be the minimum acceptable for slope stability. This implies that the slope is expected to fail. It is therefore considered that the slope at this profile is **not stable**.

6.3. Slope Stability Conclusions and Recommendations

Based on the results of the Limitstate:GEO analysis, it is shown that slope forming the eastern boundary to the site is stable. The slope leading down to the Rochdale Canal in the north of the site

has varying profiles and is safe when the angle of repose is at a maximum of 33.5° (1v:1.5h) such as at the location of Profile B-B', but in sections where it is steeper, such as Profile C-C' where it is at a slope of 1v:0.73h (54°), is not stable.

The instability of the slope facing onto the Rochdale Canal is due to the steep sided nature of the slope. The slope which forms the boundary between the proposed development to the south of the slope, and the Public Open Space (POS) between the slope and Rochdale Canal will require stabilization, there are a number of techniques which could be considered in order to create a more stable slope.

Reprofiling of the slope

Reprofiling the slope to a more stable angle such as 33.5° (1v:1.5h), will remove the risk of soil displacement or failure. Given the proposed development, there will be properties on the land to the south of the slope so to avoid taking up any land to the south, reprofiling would need to be undertaken along the northern side of the slope profile and will involve adding more material to the base of the slope to create a shallower gradient.

Slope Netting

Slope stabilisation netting could be placed to prevent erosion while vegetation re-establishes. Biodegradable options such as Jute or coconut coir will allow vegetation growth before naturally decomposing. Synthetic or permanent netting could also be considered to create a stable, interlocked root system on slopes of varying gradients.

Soil Nails

A steeper slope may be obtained through the use of soil nails to provide internal reinforcement to the slope, increasing the slopes resistance to shear forces.

Geosynthetics

The application of geotextiles, geogrids or geomembranes can enhance the soil stability by reinforcing weak soil layers.

Vegetation and Erosion Control

Encouraging vegetation to grow on the slope assists in stabilising slopes by binding the soil with root systems and providing a protective cover that minimises surface erosion. Grass, shrubs and deep - rooted trees have beneficial effects on reinforcing the soil structure and reducing runoff velocity.

Drainage Control

Drainage control will manage water infiltration into the slope which can result in an increase in pore water pressure, reducing soil strength. Installation suitable drainage such as gravel filled trenches with perforated pipes (French drains), or herringbone drainage gullies.

7. Generic Risk Assessment

7.1. Introduction

Current good practice requires that the findings from a site investigation should be evaluated on a site-specific basis, using a risk-based approach. Risk assessment involves identification and evaluation of the hazards presented by the concentrations of contaminants measured followed by an evaluation of the risks which are associated with these hazards (LCRM¹⁸). Information gathered from the risk assessment has been collated in the revised contamination conceptual model in Section 7.6.

7.2. Soil Risk Assessment

7.2.1. Methodology

With regards to the soil risk assessment LKC will use the following hierarchy:

- Category 4 Screening Levels (C4SLs) ^{19, 20}.
- LQM Suitable 4 Use Levels (S4ULs) ^{21, 22, 23, 24}.
- ATRISK Soil Screening Values (SSVs) and CL:AIRE Generic Assessment Criteria (GACs)²⁵.

The proposed development is for a mixed end use of residential houses and an area of public open space (POS). The area of residential houses with gardens will be assessed using the residential with plant uptake assessment criteria. The area of POS will be assessed using POS_{resi} assessment criteria.

All criteria have been generated using the CLEA V1.06 model²⁶ based either on 1%, 2.5% and 6% Soil Organic matter (SOM). Results will be compared to the nearest appropriate SOM.

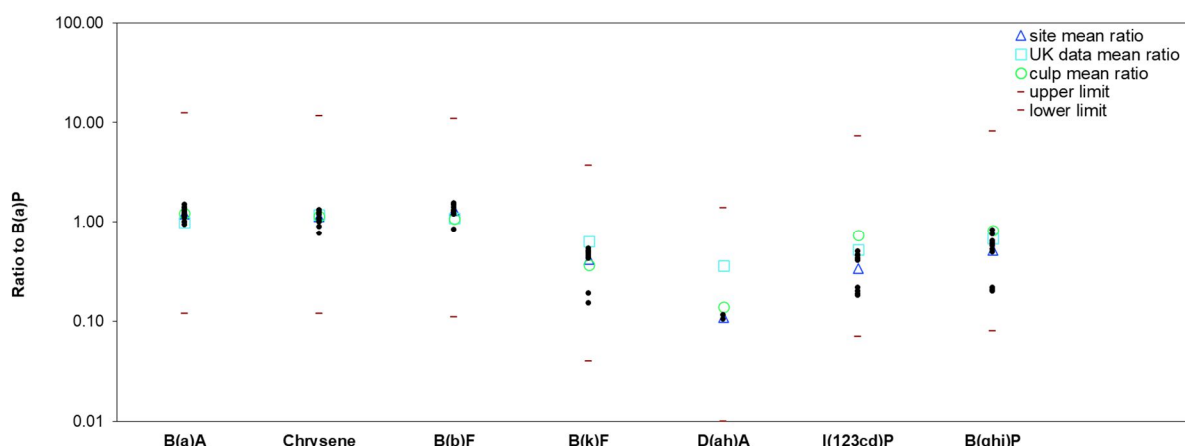
A summary of the generic assessment criteria used in this assessment is provided in Appendix G.

7.2.2. B(a)P as Surrogate Marker

LKC consider the main risk drivers for PAHs are benzo(a)pyrene (B(a)P) and naphthalene. This is due to B(a)P possibly being a carcinogen and most toxic of the PAHs^{27,28} and naphthalene the most volatile and soluble²⁹. The C4SLs indicate B(a)P as a surrogate marker for carcinogenic PAHs, if it falls within appropriate limits, since the risk from other non-carcinogenic PAHs are considered negligible³⁰. For B(a)P to be used as a surrogate marker it should follow the profile described by the HPA (2008)³¹ and CL:AIRE (2013). Naphthalene will be treated separately using the LQM S4ULs.

LKC undertook an assessment of the PAH data for the site with regards to using B(a)P as a surrogate marker for carcinogenic PAHs as per HPA and CL:AIRE guidelines. The primary toxicological study related to Culp *et al.*³², which was based on coal tar mixtures (>80,000mg/kg of total PAHs) fed in food to mice over a two-year carcinogenicity study.

Graph 7-1 summarises the study site data with respect to how the ratios of carcinogenic PAHs relate to B(a)P, within the confidence limits provided in the HPA document.



Graph 7-1: The ratio of PAH to B(a)P in soil for all available data at the site based on 13 of 22 samples (where values were >LOD to allow the calculation of a ratio).

Notes:

B(a)P=Benzo(a)pyrene; D(ah)A=Dibenzo(ah)anthracene; B(a)A=Benzo(a)anthracene; B(b)F=Benzo(b)fluoranthene; B(k)F=Benzo(k)fluoranthene; I(123cd)P=Indeno(123cd)pyrene; B(ghi)P=Benzo(ghi)perylene.

All the data points that could be used to calculate ratios fall inside the upper or lower limits.

Based on this distribution of data LKC considers B(a)P can be used as a surrogate marker for carcinogenic PAHs and the C4SL criteria is suitable for this dataset.

7.2.3. Soil Results Comparison against Assessment Criteria

All analysis sheets are presented in Appendix C. Results have been compared to the relevant assessment criteria (POS_{resi} in the area of POS and residential with plant uptake over the remainder of the site) and no elevated metals, PAHs, or hydrocarbons, PCBs were identified. Asbestos was identified, as detailed in Table 7-1.

Sample Location / Depth (mbgl)	ID	Type	Total Asbestos (%)
WS104 / 0.28-0.63	Amosite	Fibre bundles	<0.001
WS105 / 0.08-0.48	Chrysotile	Fibre bundles	<0.001
WS110 / 0.15-0.20	Chrysotile	Fibre bundles	0.001
TP102 / 0.20-0.50	Chrysotile	Fibre bundles	0.007
TP103 / 0.15-0.80	Chrysotile	Fibre bundles	0.002
TP107 / 0.10-0.80	Chrysotile	Microscopic thermoplastic floor tile fragment	0.011
TP109 / 0.50-1.30	Chrysotile	Fibre bundles	<0.001

Table 7-1: Details of Asbestos Identified.

To examine the potential additivity of toxicological effects between the petroleum hydrocarbon fractions, a Hazard Index (HI) as described by the Environment Agency³³ technical report was calculated for the samples. This should be undertaken when there are detectable petroleum hydrocarbons but not elevated when compared to appropriate assessment criteria.

HI results are presented in Table 7-2 and included in Appendix H.

Sample Location / Depth (mbgl)	Hazard Index	Further consideration required?
WS106 (0.10-0.15)	0.94	No
WS110 (1.80-2.30)	0.21	No
TP110 (0.15-0.65)	0.21	No

Table 7-2: Hazard Index.

Notes:

Bold where HI is >1.

7.2.4. Direct Contact Risk – Pollutant Linkage 1

Asbestos

Asbestos (chrysotile) was identified in WS105, WS110, TP102, TP103, TP107 and TP109, amosite was encountered in WS104. The asbestos was identified as fibre bundles in all locations but TP107 where it was encountered in a thermoplastic floor tile. The source of the asbestos is likely to be from the demolished buildings.

Given the spread of samples which contain asbestos these samples are expected to be sitewide.

Asbestos may affect site users in soft landscaping and garden areas, via the inhalation of fibres. The probability is considered to be likely. With a medium consequence, the risk as assumed to be moderate, and remediation is recommended.

LKC have utilised the Joint Industry Working Group (JIWG) Decision Support Tool for receptor risk ranking of ACM onsite. This model incorporates guidance from CL:AIRE CAR-SOIL³⁴ and CIRIA C733³⁵. Two scenarios have been modelled using the proposed end use of residential gardens and areas of POS.

Additional consideration should also be given to the risk to workers and offsite receptors during groundworks and construction. This is discussed further in Section 10.

Residential gardens

The following assumptions have been incorporated into the model:

Asbestos type, nature and concentrations as encountered during the site investigation and reported in laboratory data (free dispersed fibres used as worst case).

In this model an infant (under 5) with a 24-hour residential exposure was assumed in close proximity to the source.

Medium respirable index was assumed based on the ACM identified onsite as per RIVM³⁶.

The assessment was carried out assuming a capping layer will be installed therefore a 'minimal disturbance' based on ACM at a shallow depth, potentially disturbed by excavation.

For added conservatism, the model does not consider moisture content, which can significantly reduce the potential for airborne fibre release from soil in a typical UK climate. Swartjes and Tromp (2008)³⁷ based on work by Addison *et al.*³⁸ note that the addition of 10% water to soil decreases the risk of potential fibre release by a factor of between 2 and 10. The moisture content of the soil in areas impacted by asbestos range between 6.30-10.00% making fibre release unlikely.

Data from Addison *et al.* shows that a sandy soil with Chrysotile fibre concentrations of 0.01%w/w (1 order of magnitude lower recorded) when agitated in a moderately aggressive way, produced between 0.01fibre/ml and no recordable fibres at moisture contents of 5% and above.

The JIWG model output sheet is presented in Appendix I. A very low risk was identified to key receptors based on a 600mm capping layer installed.

Asbestos may affect site users in garden areas across the site, via the inhalation of fibres. The probability is considered to be likely given asbestos encountered at shallow depth. With a medium consequence the risk as assumed to be moderate and remediation in the form of a capping layer is recommended in garden areas.

Public Open Space

The following assumptions have been incorporated into the model:

Asbestos type, nature and concentrations as encountered during the site investigation and reported in laboratory data (free dispersed fibres used as worst case).

In this model an infant (under 5) with a <1hour in any single day frequent but short exposure event assumed in close proximity to the source as the area is proposed to be public open space.

Medium respirable index was assumed based on the ACM identified onsite as per RIVM³⁹.

The assessment was carried out assuming a nominal 150mm topsoil cover will be installed (due to undesirable anthropogenic material within the made ground) therefore a 'minimal disturbance' based on ACM present near the surface, potentially disturbed during non-construction/routine use of land.

In addition, the samples containing asbestos were taken from 0.15mbgl in WS110 and 0.50mbgl in TP109 so not at the surface.

For added conservatism, the model does not consider moisture content, which can significantly reduce the potential for airborne fibre release from soil in a typical UK climate. Swartjes and Tromp (2008)⁴⁰ based on work by Addison *et al.*⁴¹ note that the addition of 10% water to soil decreases the risk of potential fibre release by a factor of between 2 and 10. The moisture content of the soil in areas impacted by asbestos range between 10.00-11.00% making fibre release unlikely.

Data from Addison *et al.* shows that a sandy soil with Chrysotile fibre concentrations of 0.01%w/w (1 order of magnitude lower recorded) when agitated in a moderately aggressive way, produced between 0.01fibres/ml and no recordable fibres at moisture contents of 5% and above.

The JIWG model output sheet is presented in Appendix I. A low risk was identified to key receptors based on a nominal 150mm topsoil capping installed.

Asbestos may affect site users in gardens areas in across the site, via the inhalation of fibres. The probability is considered to be low likelihood given asbestos encountered at shallow depth. With a medium consequence the risk as assumed to be moderate / low and limited remediation is recommended (nominal 150mm topsoil cover).

Other contaminants

No elevated metals, hydrocarbons, PAH, PCBs were identified when compared to the relevant assessment criteria. The probability of these contaminants posing a risk to site users is considered unlikely. With a medium consequence, the risk is considered to be low, and no remediation is recommended.

7.2.5. Risk from Inhalation of Vapours – Pollutant Linkage 2

No visual / olfactory evidence of volatile contaminants was identified during the investigation. The PID did not detect any significant TVOCs. Confirmatory soil analysis did not detect any VOCs / SVOCs above the assessment criteria.

LKC therefore consider the probability of volatile contaminants affecting site users as unlikely. The consequence is expected to be medium, giving a low risk and no remediation is required.

7.3. Gas Risk Assessment

6no. gas monitoring visits have been undertaken on site. Gas monitoring results in full are presented in Appendix F and summarised in Table 7-4. Following guidance set out in CIRIA C665⁴² and BS8485⁴³ steady methane and carbon dioxide concentrations have been used in the gas risk assessment. In addition, and as per guidance, flow rates were measured first.

Borehole Ref.	Visit	Steady CH ₄ (%v/v)	Steady CO ₂ (%v/v)	Min O ₂ (%v/v)	Flow (l/h)	Groundwater Level (mbgl)	Pressure (mb)	Prev 24hr Pressure Trend
WS101	1	<0.1	1.0	19.9	<0.1	Dry	999	Falling
	2	<0.1	0.8	19.8	<0.1	Dry	1004	Rising
	3	<0.1	1.0	19.4	<0.1	Dry	1005	Falling
	4	<0.1	1.0	19.6	-0.1	Dry	998	Variable
	5	<0.1	1.3	19.5	<0.1	Dry	996	Falling
	6	<0.1	0.3	19.3	<0.1	Dry	1016	Steady
WS104	1	<0.1	2.0	18.6	<0.1	Dry	998	Falling
	2	<0.1	1.9	18.3	<0.1	Dry	1004	Rising
	3	<0.1	2.0	18.5	<0.1	Dry	1004	Falling
	4	<0.1	2.0	18.5	<0.1	Dry	999	Variable
	5	<0.1	2.4	18.6	<0.1	Dry	996	Falling
	6	<0.1	5.4	12.4	<0.1	Dry	1016	Steady
WS105	1	<0.1	4.4	14.9	<0.1	Dry	998	Falling
	2	<0.1	2.7	12.3	<0.1	Dry	1003	Rising
	3	0.1	4.4	14.0	<0.1	Dry	1004	Falling
	4	<0.1	4.0	12.7	<0.1	Dry	998	Variable
	5	<0.1	4.8	14.6	<0.1	Dry	996	Falling
	6	<0.1	0.1	19.8	<0.1	Dry	1016	Steady
WS106	1	<0.1	1.9	19.0	<0.1	Dry	998	Falling
	2	<0.1	0.7	20.0	<0.1	Dry	1024	Rising
	3	0.2	1.6	19.1	<0.1	Dry	1004	Falling
	4	<0.1	0.8	19.8	-0.1	Dry	999	Variable
	5	<0.1	0.7	20.2	<0.1	Dry	996	Falling
	6	<0.1	1.5	18.6	<0.1	Dry	1016	Steady
WS110	1	<0.1	0.7	13.0	<0.1	Dry	1017	Falling
	2	<0.1	0.5	11.5	<0.1	Dry	1024	Rising
	3	0.1	1.5	13.5	<0.1	Dry	1004	Falling
	4	0.2	1.2	8.4	<0.1	4.30	1000	Variable
	5	<0.1	3.8	10.1	<0.1	Dry	996	Falling
	6	<0.1	3.6	12.1	<0.1	Dry	1018	Steady

Table 7-4: Gas Monitoring Assessment.

Flow across site is recorded less than 0.1l/hr in all boreholes during the monitoring visits recorded.

The highest concentration of methane been recorded at 0.2%v/v in WS106 and WS110 on visits 3 and 4 respectively, the majority of visits recorded methane less than detection limits (<0.1%v/v).

A site maximum concentration of 5.4%v/v carbon dioxide has been recorded (WS104 visit 6) with 4 visits in WS105 being between 4.0-4.8%v/v, The highest concentration for the remainder of the site is 3.8%v/v recorded in WS110 during visit 5.

Low oxygen was recorded within WS105 (12.3-14.9%v/v), WS110 (8.4-13.5%v/v) and WS104 visit 6 12.4%v/v. WS110 encountered low oxygen suspected to be associated with the infilled canal.

The maximum concentration of steady carbon monoxide was recorded as 11ppm in WS101 which did not appear to correlate with significant oxygen depletion.

Only workplace exposure limits defined by the HSE are available for carbon monoxide and are not fully applicable to a residential setting. A Short-Term Exposure Limit of 200ppm (15-minute period) and Long-Term Exposure Limit of 30ppm have been defined (8-hour period).

Carbon monoxide is not expected to pose a significant risk to the proposed site receptors.

7.3.1. Gas Screening Value

In accordance with CIRIA C665⁴⁴, a Gas Screening Value (GSV) may be calculated. Assuming worst-case scenario maximum gas concentrations and flow for each borehole have been used to calculate the GSV. The GSV can be used to determine the characteristic situation (CS).

Table 7-4 shows the maximum GSV for each borehole and the appropriate characteristic situation (based on GSV only).

Boreholes	Max GSV (l/hr)	Characteristic Situation (CS)
WS101	0.0013	CS1
WS104	0.0054	CS1
WS105	0.0048	CS1
WS106	0.0019	CS1
WS110	0.0038	CS1

Table 7-4: Summary of Worst-Case Gas Screening Values (GSV).

As carbon dioxide and methane concentrations were generally recorded below 5% and 1% respectively and the concentrations recorded are relatively consistent. LKC consider it unlikely that concentrations significantly higher than those recorded will be found on site. Taking this into account and the very low flow rates recorded, LKC consider that CS1 would be appropriate for the site.

The gas can potentially migrate into buildings, accumulate in confined spaces, and cause explosions (methane) and asphyxiation. Based on the gas monitoring undertaken, LKC consider the probability of carbon dioxide and methane gas affecting site users and buildings as unlikely. Assuming a severe consequence, there is a low / moderate risk associated with Pollutant Linkage 3 and given the known gas concentrations and flow, a low risk is considered most appropriate, and no remediation is required.

7.4. Controlled Water Assessment

The PRA identified a moderate risk with respect to controlled waters based on the possibility of deep made ground with mobile contamination expected. The Secondary A Aquifers present beneath the site being significant receptors.

No evidence of mobile contamination was identified in the soils on the site.

The site investigation did not identify any significant sources of likely mobile contamination within the soils. This confirms an unlikely probability of onsite contamination affecting controlled waters. With a medium consequence the risk is anticipated to be low, and no remediation is required.

7.5. Potable Water Supply (Pollutant Linkage 5)

Soil results were compared to United Utilities (UU) guidelines for the selection of potable water pipes in land potentially affected by contamination. Only contaminants of concern, based on the preliminary conceptual model and ground conditions encountered, were analysed.

Elevated TPH EC10-16 and EC16-EC40 has been identified. Based on the ground conditions, this is likely to be localised to the centre of site around TP110 and WS106.

The probability of organic contaminants affecting potable water pipes is locally likely. Given the consequence is considered to be medium, the risk (Pollutant Linkage 5) is anticipated to be moderate risk and remediation is likely to be required.

Once details of the pipeline location and depths are known a UU Water Pipe Risk Assessment in line with the utility provider should be undertaken to confirm the most appropriate pipework for potable water.

7.6. Revised Contamination Conceptual Model

The preliminary contamination conceptual model (Table 2-3) has been revised following the risk assessments undertaken in Sections 7.1-7.5. The revised contamination conceptual model follows the same methodology and guidance used in the preliminary contamination conceptual model. The risk matrix is provided in Appendix A.

The revised contamination conceptual model is presented in Table 7-5.

Where a very low risk or low risk is identified no specific remediation is required.

Where there is a moderate / low risk is identified, some form of remediation may be required depending on the pollutant linkage, the type and concentration of contaminants present and the proposed development.

Where LKC identifies a moderate or higher risk, remediation or further investigation work is recommended.

PL	Contaminants of Concern (source)	Pathway	Receptor	Probability	Consequence	Risk	Assessment and Recommendations
1	Asbestos.	Dermal contact. Inhalation of soil, fibres, and dust. Ingestion of soils, dust, home-grown produce, soil attached to home-grown produce. Windblown dust.	Future site users. Offsite receptors.	Likely (localised)	Medium	Moderate	Asbestos encountered which may be a risk in future garden areas. Recommendation: Remediation to include a 600mm capping layer in all gardens required.
				Low likelihood (localised)		Moderate / Low	Asbestos encountered which may be a risk in future POS areas. Recommendation: Remediation to include nominal 150mm capping layer in all POS areas required.
	Metals, PAHs, petroleum hydrocarbons, PCBs and VOCs / SVOCs.			Unlikely		Low	No metals, hydrocarbons, PAHs, PCBs and VOCs / SVOCs encountered above assessment criteria. Recommendation: No remediation required.
2	Petroleum hydrocarbons, VOCs / SVOCs, PAHs: naphthalene.	Inhalation of vapours. Migration via permeable strata and preferential pathways.	Future site users. Offsite receptors.	Unlikely	Medium	Low	No hydrocarbons, PAHs and VOCs / SVOCs encountered above assessment criteria. Recommendation: No remediation required.
3	Hazardous / ground gas: methane, carbon dioxide.	Migration via permeable strata and preferential pathways. Inhalation of gas. Explosion in confined spaces.	Future site users. Buildings. Offsite receptors.	Unlikely	Severe	Moderate / Low	Unlikely probability of hazardous ground gas given gas monitoring results. CS1 conditions have been encountered. No source of gas within the made ground identified during site investigation. Recommendations: No remediation required.
4	Metals, PAHs, petroleum hydrocarbons.	Surface run-off. Migration via permeable strata and preferential pathways. Perched waters migration.	Groundwater (Secondary A Aquifers)	Unlikely	Medium	Low	Groundwater sampling not undertaken as no significant evidence of contamination identified in the soil sample results. Recommendation: No remediation required.
5	Naphthalene, petroleum hydrocarbons.	Permeation of pipes. Ingestion of tainted water supply.	Future site users. Water pipes.	Likely (localised)	Medium	Moderate	Elevated TPH encountered at pipeline depth. Recommendation: Utility provider risk assessment to be completed. The site will likely require barrier piping.

Table 7-5: Revised Contamination Conceptual Model.

8. Waste Disposal Assessment

8.1. HazWaste Assessment

The soil contamination results as presented in Appendix C have been used to help determine the waste classification of material for off-site disposal.

As an initial screen the soil results were inputted into HazWasteOnline™. This is a web-based facility that allows an assessment waste as either hazardous or non-hazardous waste based on relevant guidance and legislation.

HazWasteOnline™. has been designed to cover, amongst other waste types, the List of Waste (LoW) code number 17 "Construction and Demolition Waste (Including Excavated Soil from Contaminated Sites)".

Where less than limits of detection (LOD) were recorded, the value of the LOD was inputted.

Where applicable, contaminants were selected based on observations during sampling, site history, ground conditions and likely species present in soils (e.g., metal oxides relating to an ash-based source).

The following samples summarised in Table 8-1 are classified as hazardous.

Location and Depth	Contaminant	Total Number of Samples	Hazard Property
TP110 (0.15-0.65)	pH	22	HP8 Corrosive
WS104 (0.28-0.63)			

Table 8-1: Summary of Hazard Properties Based on HazWasteOnline™ Findings.

9. Conclusions

9.1. Ground Conditions

Ground conditions are summarised in Table 9-1 below.

Made Ground	Concrete and tarmacadam encountered in all locations excluding CP103, TP107 and TP108. Beneath the hardstanding made ground is predominantly variably gravelly, variably silty or clayey sand to between 0.25-1.30mbgl. Where tarmacadam was encountered it was predominantly underlain by sandy gravel, possible mot. Made ground across site encountered anthropogenic material of brick, concrete, coal, wood and timber fragments, ash and clinker.
Superficial	Superficial strata comprise gravelly sand or sandy gravel interbedded with bands of firm slightly gravelly slightly sandy clay.
Groundwater	Encountered at 3.77mbgl in CP102 and between 9.43-9.47mbgl in CP103.
Permeability	The permeability at test depth has been calculated within an order of magnitude of 10^{-4} to 10^{-5} m/sec.

Table 9-1: Summary of Ground Conditions.

9.2. Geotechnical

Geotechnical observations and conclusions are contained in Table 9-2 below, more detailed discussions are contained within Section 5 and 6.

Allowable Bearing Pressure	An ABC of 100kN/m ² can be obtained in the loose to medium dense sands from c.1.20mbgl.
Anticipated Foundation Type	Traditional shallow foundations recommended from approximately 1.20mbgl. If loose/poor ground is encountered, foundations may need to be deepened / widened or ground replaced with compacted granular material.
Shallow Groundwater	None encountered during site works.
Concrete Requirements	Based on BRE Digest 2005 ⁴⁵ – DS-1 AC-1 across most of the site. DS-1 AC-2 may be required in the vicinity of WS108. Further investigation in this area may be advisable.
Services	Services – consideration to the presence of services running through the site. Services may need to be re-routed.
Coal Mining	Awaiting coal mining site investigation to be completed.
Temporary support of excavation	Will be required; however, exploratory holes were generally recorded as stable but sudden collapse of unsupported excavations in the granular strata can be anticipated.
Plasticity	Awaiting laboratory results.
Road / Pavement Design	A design CBR value of 2.5% should be adopted for the made ground and silty, gravelly natural sand. A design CBR of 5% should be adopted for the peaty sandy silt.
Slope Stability	The slope forming the eastern boundary to the site is stable. The slope leading down to the Rochdale Canal in the north of the site has varying profiles and is safe when the angle of repose is at a maximum of 33.5° (1v:1.5h) such as at the location of Profile B-B', but in sections where it is steeper, such as Profile C-C' where it is at a slope of 1v:0.73h (54°), is not stable. The northern slope will require reprofiling/stabilisation.

Table 9-2: Geotechnical Conclusions Table.

9.3. Contamination Assessment

A revised contamination conceptual model has been produced by LKC which is summarised in Table 9-3 below (more detailed model provided in Section 7).

PL	Contaminant	Risk	Recommendations
1	Asbestos.	Moderate	Asbestos encountered which may be a risk in future garden areas. Recommendation: Remediation to include a 600mm capping layer in all gardens required.
		Moderate / Low	Asbestos encountered which may be a risk in future POS areas. Recommendation: Remediation to include nominal 150mm capping layer in all POS areas required.
	PAHs, petroleum hydrocarbons, PCBs and VOCs / SVOCs.	Low	No metals, hydrocarbons, PAHs, PCBs and VOCs / SVOCs encountered above assessment criteria. Recommendation: No remediation required.
2	Petroleum hydrocarbons, SVOCs, VOCs, naphthalene.	Low	No hydrocarbons, PAHs and VOCs / SVOCs encountered above assessment criteria. Recommendation: No remediation required.
3	Hazardous / ground gas: methane, carbon dioxide.	Moderate / Low	Unlikely probability of hazardous ground gas given gas monitoring results. CS1 conditions have been encountered. No source of gas within the made ground identified during site investigation. Recommendations: No remediation required.
4	Metals, PAHs, petroleum hydrocarbons.	Low	Groundwater sampling not undertaken as no significant evidence of contamination identified in the soil sample results. Recommendation: No remediation required.
5	Naphthalene, petroleum hydrocarbons.	Moderate	Elevated TPH encountered at pipeline depth. Recommendation: Utility provider risk assessment to be completed. The site will likely require barrier piping.

Table 9-3: Summary Risk Table.

PL=Pollutant Linkage, see Table 6-5 for details.

9.4. Waste Assessment

The following samples summarised in Table 9-4 are classified as hazardous.

Location and Depth	Contaminant	Total Number of Samples	Hazard Property
TP110 (0.15-0.65)	pH	22	HP8 Corrosive
WS104 (0.28-0.63)			

Table 9-4: Summary of Hazard Properties Based on HazWasteOnline™ Findings.

10. Recommendations Remediation Strategy

The requirements provided below are considered appropriate for the site based on the site investigation work undertaken. LKC should stress that no remediation, enabling works or designing works should take place until Regulatory approval has been obtained.

A summary of remediation requirements is included in Table 10-1.

PL	Recommendation
1	Residential Gardens: 600mm environmental cover system required. POS Areas: Nominal 150mm topsoil cover required.
2	No remediation required.
3	No remediation required.
4	No remediation required.
5	Potable water pipe assessment required.

Table 10-1: Remediation Summary.

10.1. Remediation and Validation Recommendations

10.1.1. Environmental Cover System (PL1)

In gardens and soft landscaping areas, an environmental cover system will be required and should comprise 600mm depth in private back gardens and 450mm in private front gardens / soft landscaping. The environmental cover system should constructed be as shown in Plate 10-1.

Either (physical break layer)			Or (geotextile membrane)		
600mm front and rear gardens. (minimum)	Chemically validated TOPSOIL ¹		600mm front and rear gardens. (minimum)	Chemically validated TOPSOIL ¹	
	Chemically validated SUBSOIL			Chemically validated SUBSOIL	
	100mm (minimum) PHYSICAL BREAK LAYER ²			GEOTEXTILE MEMBRANE (at base of subsoil)	
Existing MADE GROUND					

Plate 10-1: Typical Environmental Cover System Construction.

Notes:

Hardstood Areas – No Remediation Required.

¹NHBC recommend 100mm minimum topsoil depth.

²Gravel break layer, minimal fines.

Where there are TPO's in influencing distance of environmental cover systems it is likely the arboriculture officer may only allow a 100mm clean cover system over a geotextile membrane.

Validation of environmental cover soils will be required and should include measuring depth using a staff and providing photographic evidence. Photographic evidence of the granular physical break or geotextile layer should also be collected.

Chemical validation of imported soils is required, details are included in Section 10.2.

10.1.2. Potable Water Pipe Remediation (PL5)

It is recommended that a Water Pipeline Assessment⁴⁶ is undertaken once the location and depth of potable water pipes are known. It is likely that barrier pipe will be required.

Validation of pipeline installation should include delivery notes of pipe materials, photographs of installed pipe and confirmation of connections.

10.2. Other Considerations

10.2.1. *Unexpected Contamination*

The relevant contractors should be briefed that during development works at the site should any unusual ground conditions and / or visual or olfactory evidence of contamination (including asbestos containing material) be encountered at the site, LKC and the Local Authority should be informed, and further assessment of the material may be required.

Impacted soils should be placed on an impermeable surface to await further assessment, treatment, or removal from site (this may be subject to chemical testing to confirm suitable waste facility). The work should be done under the supervision and instruction of an environmental consultant.

To determine that significantly impacted soils have been removed, verification samples will be collected from the base and sides of the excavation. If all impacted ground cannot be removed and contamination remains on the ground, further remediation may need to be considered.

Validation requirements should include a log of work undertaken, including photographs and details of any sampling undertaken and validation of any potential additional remedial work.

10.2.2. *Decommissioning of Boreholes*

Decommission all existing groundwater sampling, ground gas monitoring and groundwater level monitoring wells by grouting should be undertaken to ensure no contamination of aquifers. Any other boreholes or borehole installations encountered during groundworks should also to be decommissioned.

All borehole and borehole installation decommissioning is to be undertaken in accordance with current EA guidelines⁴⁷.

10.2.3. *Grubbing Out of In-ground Structures*

Surface hard standing and relict features including former foundations and current foundations can be expected across the site wide. It is recommended that in-ground structures are grubbed out as part of the groundworks.

Hard materials can be used to generate suitable aggregates for re-use on site as part of engineered made ground and/ or construction platforms (subject to geo-environmental testing and client design specifications). Suitable materials derived from grubbing-up should be stored in a location on site, to be agreed with the Engineer, prior to crushing. Any unsuitable materials should be removed to a suitably licensed landfill site.

10.2.4. *Re-use of Site Generated Material*

To ensure material is compliant with appropriate waste regulations, any site won material re-used onsite should be in recourse to appropriate exemptions. A U1 and T5 exemption should be registered. This will allow the following to be used onsite or brought in for use onsite (refer to guidance for types of waste that can be used⁴⁸):

- 5,000 tonnes (c. 2,500m³) treatment of crushed concrete / stone.
- 1,000 tonnes (c. 500m³) use of non-hazardous soil.
- 5,000 tonnes (c. 2,500m³) use of clays, sand, gravel, brick, concrete, stone etc.
- 50,000 tonnes (c. 25,000m³) use of bituminous material to be used in roadways.

A Materials Management Plan (MMP) with recourse to the CL:AIRE Code of Practice⁴⁹ may be required if volumes exceed exemption limits. This must be registered before material movement starts onsite.

If an MMP is required, this needs to be registered by a Qualified Person (QP) and there must be 'certainty of use' for any material re-used onsite or exported to site to ensure there is no 'sham recovery'.

For all the above material will need to be tested at the rate and analytical suites presented in Table 10-2.

10.2.5. Stockpile Management

Stockpiled material should be suitably managed. Material should be segregated by type and source. For example, construction / demolition arisings, site won subsoil. Stockpiles may also require covering to minimise the generation of vapours, fibres, dust, and possible nuisance to adjacent receptors, and to prevent rainwater ingress. The source of each stockpile should be recorded and appropriate validation testing for re-use or potential offsite disposal should be undertaken as required.

10.2.6. Disposal

Material required to be removed from site should be undertaken under an appropriate duty of care and the results of chemical analysis should be provided to a licensed landfill for confirmation of waste classification.

Waste records such as disposal tickets and waste carrier licences should be provided in the Site Completion Report. Photographic evidence of removal and waste removal tickets should be retained and included in the validation report.

10.2.7. Control of Water

If significant organic contamination is present or to chase out deeper obstructions some localised excavation below the groundwater table may be required. Contingency arrangements to remove groundwater (including contaminated groundwater if encountered) from excavations/ relict structures should be allowed.

Small volumes of pumped fluids/ groundwater may be stored in appropriate, sealed tanks/containers and analysed for a range of determinants prior to disposal to suitable facility. Alternatively, a temporary discharge licence, including their requirements for treatment/ testing should be agreed with local utility providers (United Utilities) prior to start on site.

Where relict structures are found to retain fluid contaminants, they should be drained prior to removal.

10.2.8. Health and Safety Considerations

In working with, removing, or treating any contaminating material it is important that any potential risks associated with the actual site works are mitigated by good environmental management of the site during the remedial phases. Standard health and safety precautions (as per HSE guidance⁵⁰) should be adopted by all workers involved with site enabling and construction works.

10.2.9. Asbestos in Soils Management Plan

Due to the presence of asbestos containing material, it is recommended that additional precautions are taken during site clearance, earthworks, and construction in the area of concern. The presence of asbestos in the made ground at the site presents a potential risk of generation of airborne fibres if this material is disturbed, such as for excavations to construct new foundations.

A JIWG Work Categories assessment has been undertaken and the required mitigation measures are shown in Plate 10-2 below.

Stage 3

Risk Assessment Outputs

Probable Licensing Status	Non-Licensed Work
RPE*	EN140 with P3 filter half mask
Dust Suppression**	Localised mechanical dust suppression
Hygiene/Decontamination***	Localised and enhanced personal decontamination facilities

*Where RPE has to be worn continuously for long periods (e.g. more than 1-hour), then powered RPE may be necessary.

**Reduction in control measures possible if natural mitigation factors are present (e.g. raining, wet ground)

***Guide only; suitability of selected personal hygiene measures may be reviewed on a site/contamination-specific basis

Plate 10-2: Required asbestos mitigation measures for site workers.

LKC recommend that an appropriate 'Asbestos Management Strategy' is developed in line with CIRIA C733⁵¹.

10.3. Validation of Imported / Site Won Soils

Chemical validation of all imported and site-won soils to be used on site in gardens and soft landscaping areas should be undertaken. Imported soils should be accompanied by a certificate of analysis and source details.

A summary of the required imported material sampling requirements is presented in Table 10-2 and is based on the slightly modified YALPAG guidance (2021)⁵² based on a general worst-case scenario. Ideally, the material should be sampled at source to prevent double handling if soil fails, with confirmatory sampling undertaken on importation to site. Where this is not possible then material imported should be segregated based on source and soil type. Validation samples should be taken prior to placement in gardens to ensure suitability for use.

Material Type	Source	Suite of Analysis	Sampling Rate
Virgin Quarried Material	First generation quarried material (stone / subsoil)	Suite A	1 or 2 depending upon the type of stone / subsoil utilised to confirm the inert nature of the material.
Crushed Hardcore Stone and Brick (excluding asphalt)	Recycled (no volatile staining)	Suite A*	1 sample per 500m ³
General Fill	Imported fill – Greenfield / manufactured	Suite A*	1 sample per 500m ³
	Imported fill - Brownfield	Suite B*	
Topsoil / Subsoil	Greenfield / manufactured / natural site-won soil	Suite A*	^A 1 sample per 50m ³
	Brownfield / Screened Soils / site won made ground	Suite B*	^B 1 sample per 50m ³

Table 10-2: Sampling Requirements for Imported and Site Won Soils.

Notes:

Suite A - Heavy metals, pH, water soluble sulphate, speciated PAH, soil organic matter and asbestos screen.

Suite B - Heavy metals, pH, water soluble sulphate, speciated PAH, phenol, total and free cyanide, soil organic matter, asbestos screen, banded petroleum hydrocarbons (TPH CWG), BTEX, MTBE.

*Minimum sampling rate of 3 samples per source.

^A YAPALG states Between 1 sample per 50m³ and 1 sample per 250m³. Worst case assumed.

^B YAPALG states Between 1 sample per 50m³ and 1 sample per 100m³. Worst case assumed.

Any soil with visual or olfactory evidence of hydrocarbons should be rejected.

It should be ensured that the matrix of imported topsoil is suitable as a growing medium in line with BS3882⁵³. Topsoil soil shall be free of weeds, roots or perennial weeds, pests, diseases, debris, tree

roots, sticks, subsoil and foreign matter and shall be capable of being broken down to a fine tilth. LKC advise this information is provided by the supplier before material is imported onto site.

Imported material to be used in gardens will be compared against residential with plant uptake criteria (as used in the contamination risk assessment in Section 7).

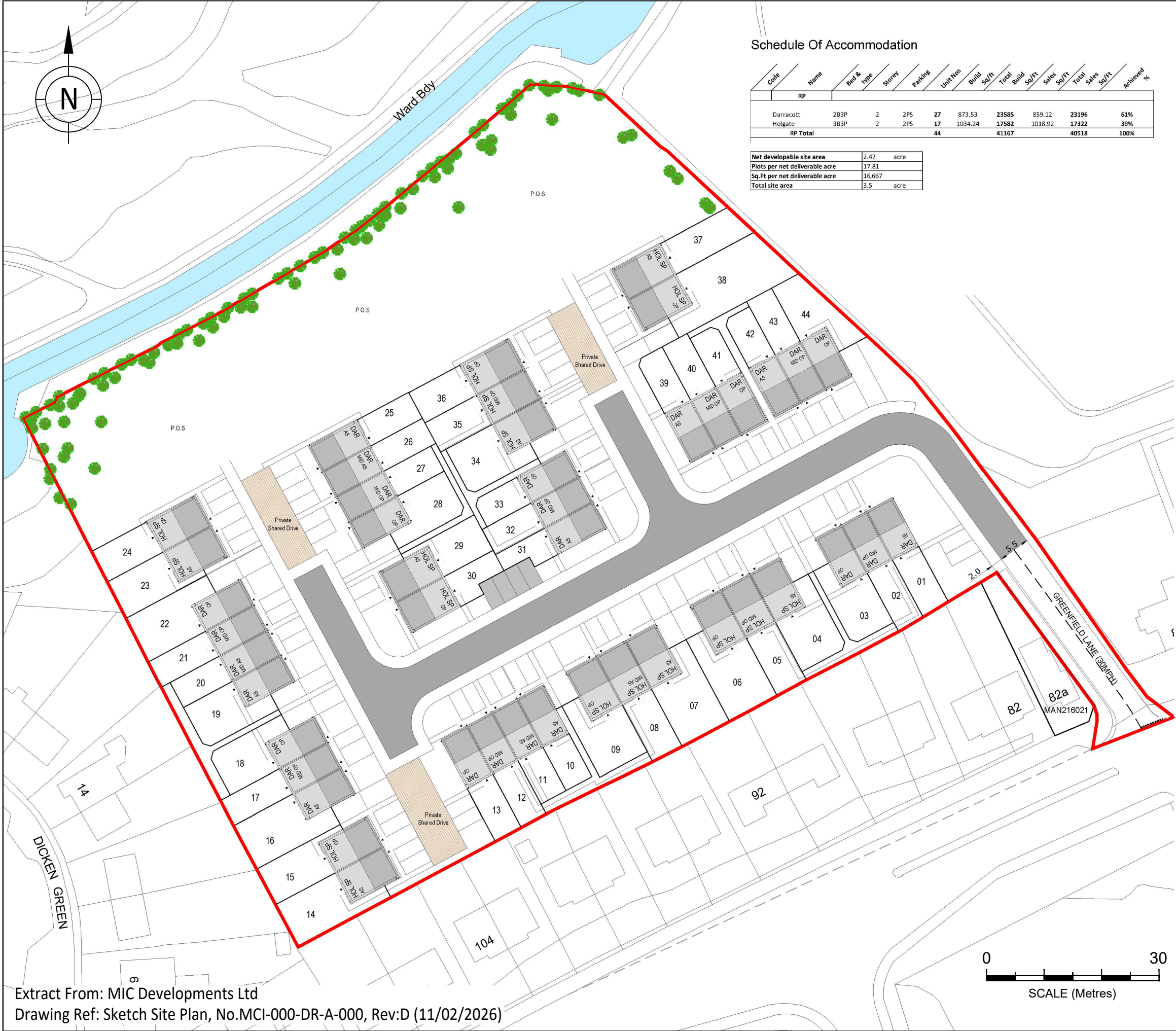
10.4. Site Completion Report

All remediation and validation work should be documented in a Site Completion Report. The Site Completion Report will allow discharge of relevant planning conditions.

Figures



Client: MCI Developments Ltd				Title: Site Location & Boundary Plan				 LK CONSULT			
Site: Dicken Green Mill, Rochdale				Scale (see scale bar): 1:20,000 & 1:1,500 @ A4							
Job No.: LKC251701		Drawn By: FP	Checked By: RP	Drawn: Mar 2026		Figure: 1	Revision:				



Schedule Of Accommodation

Code	Name	Bed & Type	Storey	Parking	Unit Nos	Build Sq/ft	Total Build Sq/ft	Sales Sq/ft	Total Sales Sq/ft	Achieved %
	RP									
	Darracott	2B3P	2	2PS	27	873.53	23585	859.12	23196	61%
	Holgate	3B3P	2	2PS	17	1034.24	17582	1018.92	17322	39%
	RP Total				44		41167		40518	100%

Net developable site area	2.47	acre
Plots per net deliverable acre	17.81	
Sq.Ft per net deliverable acre	16,667	
Total site area	3.5	acre

KEY

Site Boundary

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



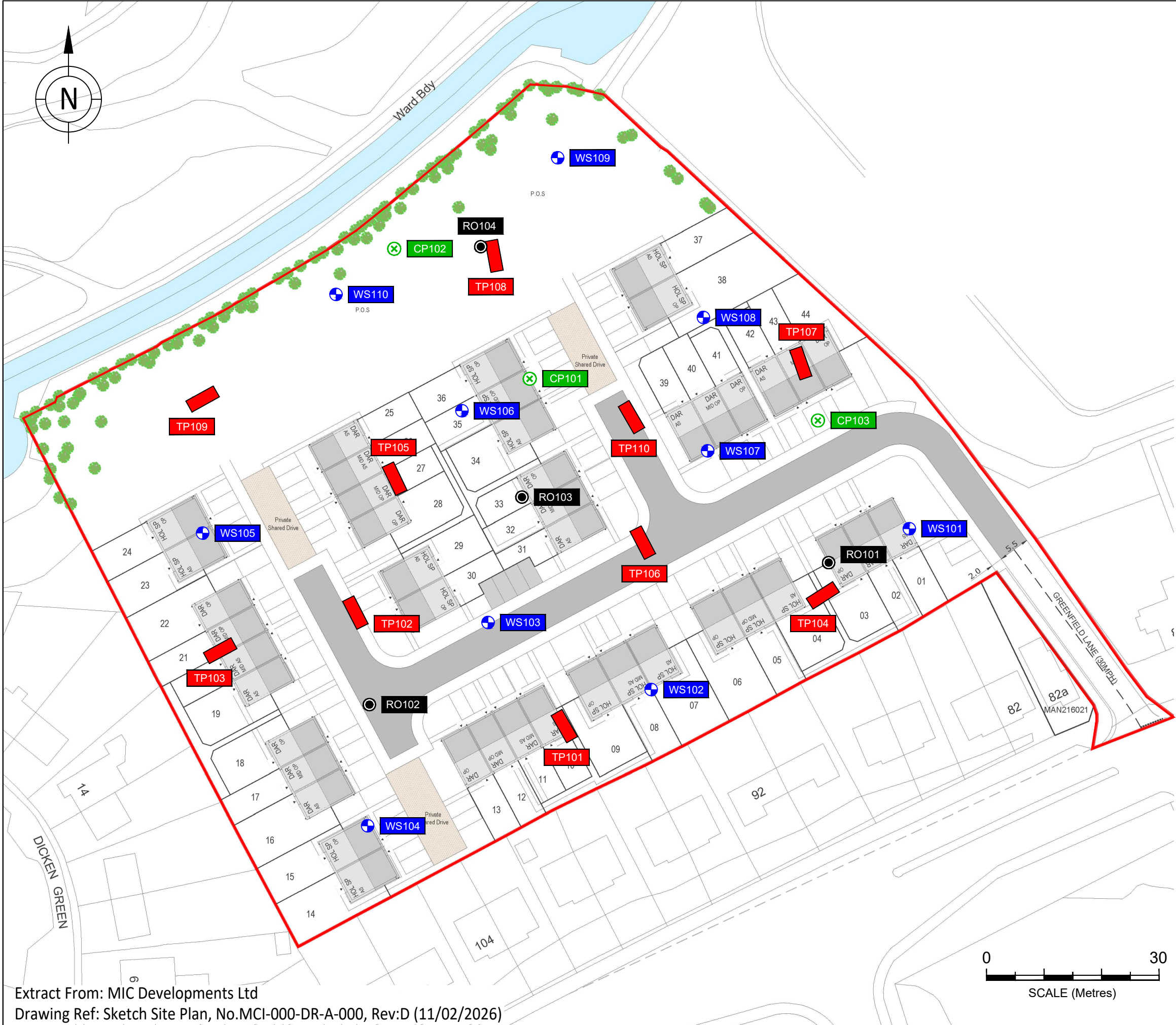
LK CONSULT

Client: MIC Developments Ltd

Site: Dicken Green Mill, Rochdale

Title: Proposed Development Plan

Job No.: LKC251701	Scale (See Scale Bar): See Scale Bar	Figure: 2	Revision:
Drawn By: AC	Checked By: FP	Drawn: Feb 2026	



KEY

- Site Boundary
- Window Sample Borehole (WS)
- Trial Pit (TP)
- Cable Percussive Borehole (CP)
- Rotary Open Hole (RO)

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.

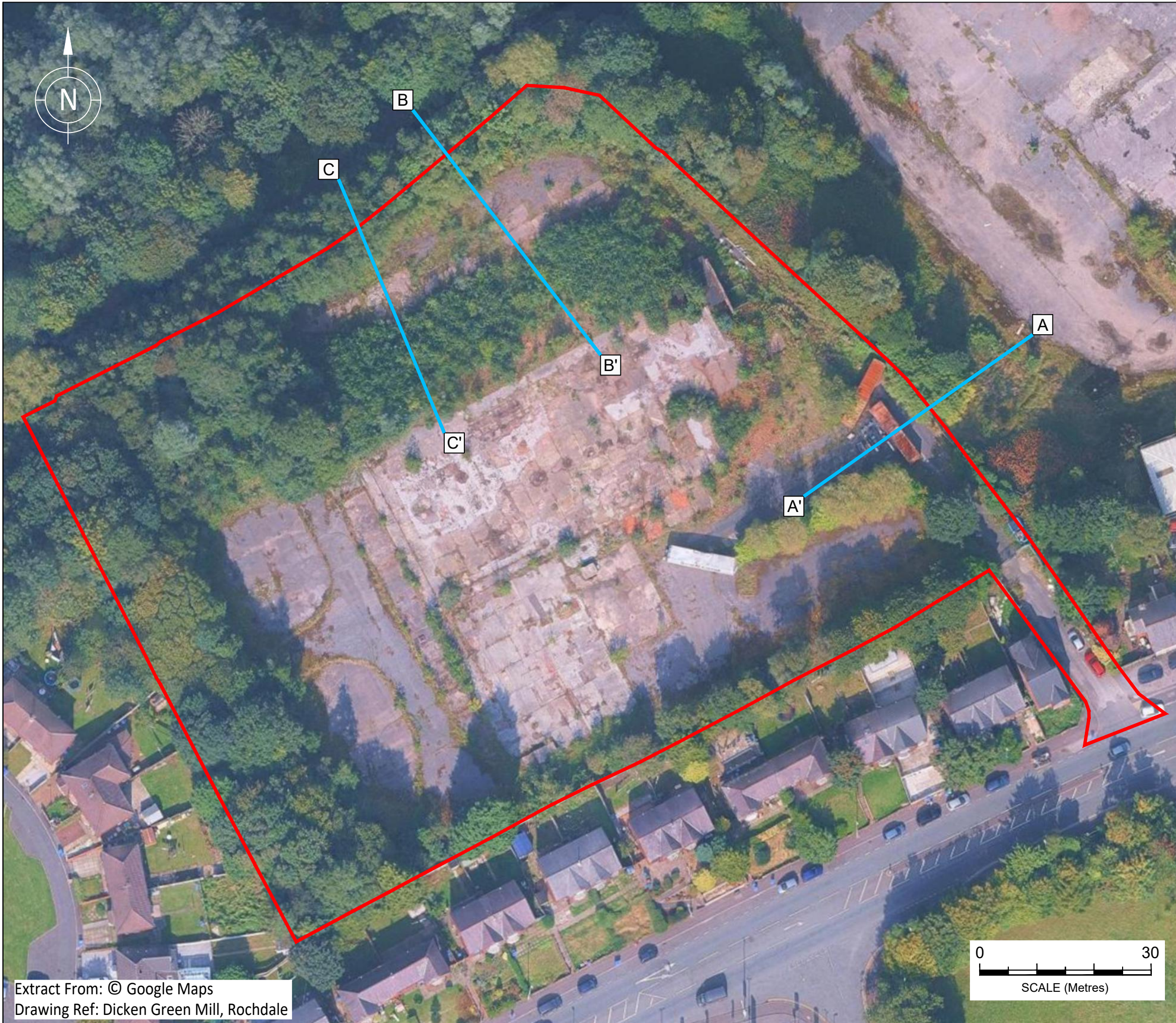
LK CONSULT

Client: MIC Developments Ltd

Site: Dicken Green Mill, Rochdale

Title: Site Investigation Location Plan

Job No.: LKC251701	Scale (See Scale Bar): See Scale Bar	Figure: 3	Revision: A
Drawn By: AC	Checked By: JL	Drawn: Apr 2026	



KEY

-  Site Boundary
-  Slope Profile Location

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



LK CONSULT

Client: MIC Developments Ltd

Site: Dicken Green Mill, Rochdale

Title: Slope Profile Location Plan

Job No.: LK251701	Scale (See Scale Bar): See Scale Bar	Figure: 4	Revision: A
Drawn By: AC	Checked By: CW	Drawn: Apr 2026	

Extract From: © Google Maps
Drawing Ref: Dicken Green Mill, Rochdale

Appendix A – Risk Matrix

RISK EVALUATION

The method for risk evaluation is a qualitative method of interpreting the output from the risk estimation stage of the assessment, based on CIRIA 552⁵⁴. It involves the classification of the:

- Magnitude of the potential consequence (severity) of the risk occurring (Table A).
- Magnitude of the probability (likelihood) of the risk occurring (Table B).

Consequence (Severity)		
Classification	Definition	Example
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 (note: water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings/properties. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definition of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High Concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled waters. Explosion, causing building collapse (can also equate to short term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health ('significant harm' as defined in DETR, 2000). Pollution of sensitive water resources (note Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem.	Concentrations of a contaminant from site exceed generic, or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer (Principal and Secondary). Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures, and services ('significant harm' as defined in DETR, 2000). Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater. Damage to building rendering it unsafe to occupy (e.g., foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable damage to buildings, structures, and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discoloration of concrete.

Table A. Classification of Consequence.

Probability (Likelihood)	
Classification	Definition
High Likelihood	There is a pollutant linkage and an event that either 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	There is a pollutant linkage, and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollutant linkage, and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollutant linkage, but circumstances are such that it is improbable that an event would occur in the very long term.

Table B. Classification of Probability.

These classifications are then compared to indicate the risk presented by each pollutant linkage (Table C). It is important that this classification is only applied where there is a possibility (which can range from high likelihood to unlikely) of a pollutant linkage existing.

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk

Table C. Comparison of Consequence against Probability.

Once the risk has been determined the corresponding action can be assessed (Table D).

Risk	Action Required
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High Risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate Risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Table D. Description of the Classification and Likely Action Required.

Where a very low risk is identified no specific remediation is required.

Where a low risk is identified, some form of remediation may be required depending on the pollutant linkage, the type and concentration of contaminants present and the proposed development.

Where there is a moderate/low risk identified, an assessment will be undertaken to establish what category the pollutant linkage will fall into.

Where LKC identifies a moderate or higher risk, remediation or further investigation work is recommended.

Appendix B – Profile Logs

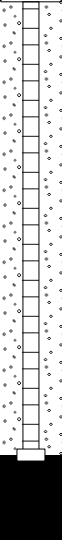
Project Name: Dicken Green Mill, Rochdale	Client: MCI Developments Limited		Date: 19/02/2026 - 19/02/2026	
Project ID:LKC251701	Contractor: PM Sampling Ltd		Co-ords: 390056.88E, 411916.75N +/- 5m	
Equipment: Cable Percussive Drilling Rig / Shell and Auger Rig		Logged By JL	Scale 1:40	Page Number Sheet 1 of 2

Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)	Well		
0.10-0.40	B	0.10		MADE GROUND: Light grey CONCRETE.					
0.10-0.40	ES			MADE GROUND: Light brown gravelly slightly silty SAND with frequent brick fragments and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, quartzite and anthropogenic material.					
0.10-0.40	PID=0.0ppm	0.40		Medium dense light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.					
0.80-1.00	B				1				
1.20-1.65	D								
1.20-1.65	N=19 (3,4/4,5,5,5)								
1.65-2.00	B								
1.65-2.00	ES								
1.65	PID=0.4ppm				2				
2.00-2.45	D								
2.00-2.45	N=18 (3,3/4,4,5,5)								
2.50-5.00	B								
3.00-3.45	D				3				
3.00-3.45	N=11 (3,3/3,2,3,3)								
4.00-4.45	D				4				
4.00-4.45	N=16 (3,3/3,4,4,5)								
4.50-5.00	B								
5.00-5.45	D				5				
5.00-5.45	N=17 (2,3/3,4,5,5)								
5.50-6.00	B								
6.00-6.45	D				6				
6.00-6.45	N=27 (4,5/6,7,7,7)								
6.50-7.00	D			6.50m to 7.00mbgl - Sand becomes fine to medium.					
7.00-7.45	D				7				
7.00-7.45	N=25 (4,4/5,6,7,7)								
7.50-8.00	B								
Hole Diameter		Casing Diameter		Water Strike Details		Chiselling			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Initial Strike (m)	Time Elapsed (min)	Depth Water Value (m)	Depth Top (m)	Depth Base (m)	Duration (hh:mm)
		10.00	152						

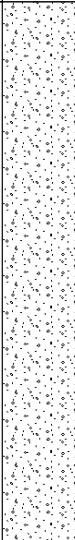
Remarks:

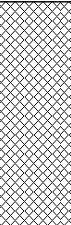
Borehole is stable.

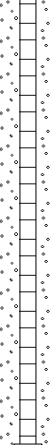
Borehole is dry.

 LK CONSULT		Cable Percussion Drilling Log						Location Number: CP101			
Project Name: Dicken Green Mill, Rochdale				Client: MCI Developments Limited			Date: 19/02/2026 - 19/02/2026				
Project ID:LKC251701				Contractor: PM Sampling Ltd			Co-ords: 390056.88E, 411916.75N +/- 5m				
Equipment: Cable Percussive Drilling Rig / Shell and Auger Rig						Logged By JL		Scale 1:40		Page Number Sheet 2 of 2	
Depth (m)		Samples / Tests		Depth (m)	Legend	Stratum Description				Level (m)	Well
8.00-8.45 8.00-8.45		D N=29 (4,5/7,7,7,8)				Medium dense light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.			8		
8.50-9.00		B									
9.00-9.45 9.00-9.45		D N=26 (5,5/5,6,7,8)					9				
9.50-10.00		B									
10.00-10.45 10.00-10.45		D N=35 (5,6/8,9,9,9)		10.00m to 10.45mbgl - Becomes dense.			10				
				10.45		End of Borehole at 10.45m					
									11		
									12		
									13		
									14		
									15		
Hole Diameter		Casing Diameter		Water Strike Details			Chiselling				
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Initial Strike (m)	Time Elapsed (min)	Depth Water Value (m)	Depth Top (m)	Depth Base (m)	Duration (hh:mm)		
		10.00	152								
Remarks: Borehole is stable. Borehole is dry.											

Borehole is dry.

 LK CONSULT		Cable Percussion Drilling Log						Location Number: CP102		
Project Name: Dicken Green Mill, Rochdale				Client: MCI Developments Limited			Date: 20/02/2026 - 20/02/2026			
Project ID:LKC251701				Contractor: PM Sampling Ltd			Co-ords: 390043.93E, 411952.29N +/- 5m			
Equipment: Cable Percussive Drilling Rig / Shell and Auger Rig					Logged By JL		Scale 1:40		Page Number Sheet 2 of 2	
Depth (m)	Samples / Tests		Depth (m)	Legend	Stratum Description				Level (m)	Well
8.00-8.45 8.00	D N=50 (6,9/50 for 290mm)		10.45		Medium dense light brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite. 8.00m to 9.00mbgl - Becomes very dense.			8		
8.50-9.00	B									
9.00-9.45 9.00	D N=24 (5,5/5,6,7,6)				9.00m to 10.45mbgl - Becomes medium dense.			9		
9.45-10.00	B									
10.00-10.45 10.00	D N=23 (4,5/5,6,6,6)							10		
					End of Borehole at 10.45m					
								11		
								12		
								13		
								14		
								15		
Hole Diameter		Casing Diameter		Water Strike Details			Chiselling			
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Initial Strike (m)	Time Elapsed (min)	Depth Water Value (m)	Depth Top (m)	Depth Base (m)	Duration (hh:mm)	
		10.00	152							
Remarks: Borehole is stable. Borehole is dry.										

 LK CONSULT		Cable Percussion Drilling Log						Location Number: CP103			
Project Name: Dicken Green Mill, Rochdale				Client: MCI Developments Limited			Date: 25/02/2026 - 25/02/2026				
Project ID:LKC251701				Contractor: D & I Drilling Ltd			Co-ords: 390082.94E, 411946.26N +/- 5m				
Equipment: Cable Percussive Drilling Rig / Shell and Auger Rig						Logged By JL		Scale 1:40		Page Number Sheet 1 of 2	
Depth (m)		Samples / Tests		Depth (m)	Legend	Stratum Description				Level (m)	Well
0.00-0.50 0.10-0.15 0.10-0.15		B ES PID=0.9ppm				MADE GROUND: Light brown gravelly slightly silty SAND with frequent whole bricks, brick fragments and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, quartzite and anthropogenic material.					
1.20-1.65 1.20-1.65		D N=15 (2,2/2,2,4,7)		1.20		Firm consistency dark brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone and quartzite.			1		
1.65-2.00 1.65-2.00 1.65-2.00 2.00-2.45 2.00-2.45		B ES PID=0.5ppm D N=10 (2,2/2,3,2,3)		1.50		Medium dense light orangish brown SAND. Sand is fine to medium.			2		
2.50-3.00		B									
3.00-3.45 3.00-3.45		D N=24 (4,4/5,6,6,7)							3		
3.50-4.00		B									
4.00-4.45 4.00-4.45		D N=19 (3,3/4,4,5,6)							4		
4.50-5.00		B									
5.00-5.45 5.00-5.45		D N=25 (3,4/4,5,7,9)							5		
5.50-6.00		D									
6.00-6.45 6.00-6.45		D N=23 (4,4/5,5,6,7)		6.00		Medium dense light brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.			6		
6.50-7.00		D		6.30		Medium dense light orangish brown SAND. Sand is fine to medium.					
7.00-7.45 7.00-7.45		D N=27 (4,5/5,6,7,9)							7		
7.50-8.00		D		7.50		Firm consistency dark brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone and quartzite.					
Hole Diameter		Casing Diameter		Water Strike Details			Chiselling				
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Initial Strike (m)	Time Elapsed (min)	Depth Water Value (m)	Depth Top (m)	Depth Base (m)	Duration (hh:mm)		
		10.00	152								
Remarks: Borehole is stable. Borehole is dry.											

 LK CONSULT		Cable Percussion Drilling Log						Location Number: CP103			
Project Name: Dicken Green Mill, Rochdale				Client: MCI Developments Limited			Date: 25/02/2026 - 25/02/2026				
Project ID:LKC251701				Contractor: D & I Drilling Ltd			Co-ords: 390082.94E, 411946.26N +/- 5m				
Equipment: Cable Percussive Drilling Rig / Shell and Auger Rig						Logged By JL		Scale 1:40		Page Number Sheet 2 of 2	
Depth (m)		Samples / Tests		Depth (m)	Legend	Stratum Description				Level (m)	Well
8.00-8.45 8.00-8.45		D N=40 (5,6/9,9,12,10)		7.90		Firm consistency dark brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone and quartzite.			8		
8.50-9.00		B				Medium dense to dense light brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse comprising sandstone and quartzite.					
9.00-9.45 9.00-9.45		D N=36 (6,6/7,8,9,12)				9.00m to 10.45mbgl - Becomes dense.			9		
9.50-10.00		D									
10.00-10.45 10.00-10.45		N=42 (6,8/9,9,12,12)							10		
				10.45		End of Borehole at 10.45m					
									11		
									12		
									13		
									14		
									15		
Hole Diameter		Casing Diameter		Water Strike Details			Chiselling				
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Initial Strike (m)	Time Elapsed (min)	Depth Water Value (m)	Depth Top (m)	Depth Base (m)	Duration (hh:mm)		
		10.00	152								
Remarks: Borehole is stable. Borehole is dry.											

Soakaway (SA101) carried out on completion.

		Trial Pit Log				Location Ref: TP102		
Project: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 18/02/2026 - 18/02/2026			
Project No. : LKC251701			Contractor: H & C Plant Hire		Co-ords: 390039.98E, 411885.72N +/- 5m			
Equipment: Excavator: JCB 3CX				Logged By FP	Scale 1:25	Page Number Sheet 1 of 1		
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description				
0.20-0.50 0.20-0.50 0.20-0.50 0.50-1.50 0.50-1.50 0.50-1.50 0.50-1.50	D ES PID=0.6ppm B D ES PID=1.0ppm	0.10		MADE GROUND: TARMACADAM.				
		0.20		MADE GROUND: Pinkish grey GRAVEL. Gravel is medium, subrounded comprising quartzite.				
				MADE GROUND: Brown gravelly silty SAND with occasional brick fragments, rare coal and glass. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising anthropogenic material and sandstone.				
		0.50		Light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone, mudstone and coal. [Alluvium]			0.5	
							1.0	
					1.5			
			1.70		End of Trial Pit at 1.70m			2.0
								2.5
								3.0
							3.5	
							4.0	
							4.5	



Pit Dimensions			Pit Stability
Length (m)	Width (m)	Depth (m)	Unstable within natural strata.
1.50	0.80	1.70	

Remarks:
Trial pit dry.
Soakaway (SA102) carried out on completion.

Project: Dicken Green Mill, Rochdale

Client: MCI Developments Limited

Date: 18/02/2026 - 18/02/2026

Project No. : LKC251701

Contractor: H & C Plant Hire

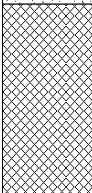
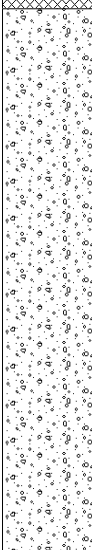
Co-ords: 390018.54E, 411867.22N +/- 5m

Equipment: Excavator: JCB 3CX

Logged By
FP

Scale
1:25

Page Number
Sheet 1 of 1

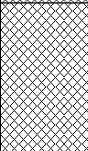
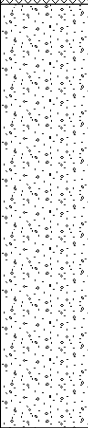
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description	
0.15-0.80	D	0.15		MADE GROUND: Light grey CONCRETE.	
0.15-0.80	ES			MADE GROUND: Brown gravelly silty SAND with occasional brick fragments, ash, plastic, rare metal and clinker. Sand is fine to coarse, Gravel is fine to coarse, subangular to subrounded comprising anthropogenic material, sandstone and quartzite.	0.5
0.20-0.50	PID=0.6ppm				
0.50-1.50	PID=1.0ppm	0.80		Brown sandy GRAVEL with high cobble content. Sand is fine to coarse. Gravel is fine to coarse. Gravel and cobbles are subrounded comprising sandstone, siltstone and mudstone. [Alluvium]	1.0
					1.5
					2.0
					2.5
		2.60		End of Trial Pit at 2.60m	3.0
					3.5
					4.0
					4.5

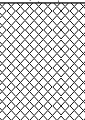


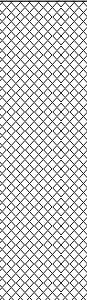
Pit Dimensions			Pit Stability
Length (m)	Width (m)	Depth (m)	Unstable within natural strata.
3.00	0.90	2.60	

Remarks:

Trial pit dry.

 LK CONSULT		Trial Pit Log				Location Ref: TP104	
Project: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 19/02/2026 - 19/02/2026		
Project No. : LKC251701			Contractor: H & C Plant Hire		Co-ords: 390126.13E, 411870.55N +/- 5m		
Equipment: Excavator: JCB 3CX				Logged By FP	Scale 1:25	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description			
0.10-0.60 0.10-0.60 0.10-0.60	D ES PID=0.7ppm	0.10		MADE GROUND: TARMACADAM.			
				MADE GROUND: Grey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse, subangular comprising limestone.			
				0.50 to 0.60mbgl - Band of whole and fragmented bricks encountered.			0.5
0.60-1.60 0.60-1.60 0.60-1.60	D ES PID=0.3ppm	0.60		Light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone and mudstone. [Alluvium]			
							1.0
							1.5
		2.00		End of Trial Pit at 2.00m			2.0
							2.5
							3.0
							3.5
							4.0
							4.5
			Pit Dimensions			Pit Stability	
			Length (m)	Width (m)	Depth (m)	Unstable within natural strata.	
			2.10	0.90	2.00		
			Remarks:				
			Trial pit dry. Soakaway (SA103) carried out on completion.				

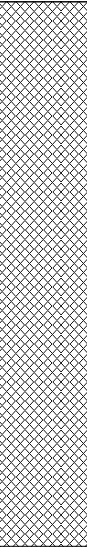
 LK CONSULT		Trial Pit Log				Location Ref: TP105	
Project: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 19/02/2026 - 19/02/2026		
Project No. : LKC251701			Contractor: H & C Plant Hire		Co-ords: 390051.14E, 411894.04N +/- 5m		
Equipment: Excavator: JCB 3CX				Logged By FP	Scale 1:25	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description			
0.10-0.50 0.10-0.50 0.10-0.50	D ES PID=0.5ppm	0.10		MADE GROUND: Light grey CONCRETE.			
0.50-1.00 0.50-1.00 0.50-1.00	D ES PID=1.0ppm	0.50		MADE GROUND: Light brown gravelly SAND with rare brick fragments, concrete fragments and coal. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone, mudstone and coal.			0.5
1.50-2.10	B			Light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone, mudstone and coal. [Alluvium]			1.0
							1.5
							2.0
		2.10		End of Trial Pit at 2.10m			2.5
							3.0
							3.5
							4.0
							4.5
			Pit Dimensions			Pit Stability	
			Length (m)	Width (m)	Depth (m)	Unstable below concrete.	
			2.30	0.90	2.10		
			Remarks:				
			Trial pit dry.				

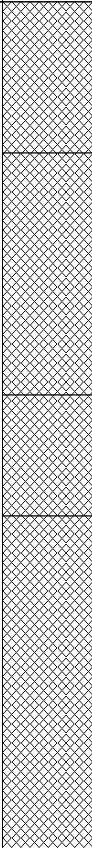
 LK CONSULT		Trial Pit Log					Location Ref: TP106	
Project: Dicken Green Mill, Rochdale			Client: MCI Developments Limited			Date: 19/02/2026 - 19/02/2026		
Project No. : LKC251701			Contractor: H & C Plant Hire			Co-ords: 390087.53E, 411893.04N +/- 5m		
Equipment: Excavator: JCB 3CX					Logged By FP	Scale 1:25	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description				
0.20-1.20 0.20-1.20 0.20-1.20	D ES PID=0.2ppm	0.20		MADE GROUND: Light grey CONCRETE with 10mm rebar.				
				MADE GROUND: Light brown gravelly clayey SAND with occasional brick fragments, rare concrete fragments and coal fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone, mudstone and coal.				0.5
		1.20-2.00 1.20-2.00 1.20-2.00	D ES PID=0.1ppm	1.20		Light brown gravelly SAND with occasional coal fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone, mudstone and coal fragments. [Alluvium]		
2.00-2.40	B	2.40		End of Trial Pit at 2.40m				2.0
								2.5
								3.0
								3.5
								4.0
								4.5

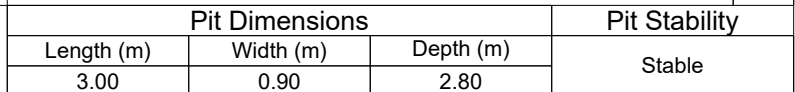


Pit Dimensions			Pit Stability
Length (m)	Width (m)	Depth (m)	Unstable within natural strata.
2.70	0.80	2.40	
Remarks: Trial pit dry.			

LK CONSULT		Trial Pit Log				Location Ref: TP107	
Project: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 19/02/2026 - 19/02/2026		
Project No. : LKC251701			Contractor: H & C Plant Hire		Co-ords: 390117.72E, 411933.59N +/- 5m		
Equipment: Excavator: JCB 3CX				Logged By FP	Scale 1:25	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description			
0.10-0.80 0.10-0.80 0.10-0.80	D ES PID=0.9ppm	0.10		MADE GROUND: Black slightly gravelly sandy SILT with frequent rootlets and occasional brick fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular comprising anthropogenic material.			
0.80-1.50 0.80-1.50 0.80-1.50	D ES PID=0.6ppm	0.80		MADE GROUND: Light brown gravelly SAND with occasional brick fragments, whole bricks and rare coal. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone and anthropogenic material.			0.5
				Light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone, mudstone and coal fragments. Strata becomes more gravelly with depth. [Alluvium]			1.0
							1.5
							2.0
2.20-2.30	D	2.20 2.30		Soft to firm consistency brown gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine, subangular to subrounded comprising sandstone, siltstone and mudstone. [Alluvium]			2.5
				End of Trial Pit at 2.30m			3.0
							3.5
							4.0
							4.5
			Pit Dimensions			Pit Stability	
			Length (m)	Width (m)	Depth (m)	Unstable within natural strata.	
			2.60	0.80	2.30		
			Remarks: Trial pit dry.				

 LK CONSULT		Trial Pit Log					Location Ref: TP108	
Project: Dicken Green Mill, Rochdale			Client: MCI Developments Limited			Date: 19/02/2026 - 19/02/2026		
Project No. : LKC251701			Contractor: H & C Plant Hire			Co-ords: 390075.62E, 411946.65N +/- 5m		
Equipment: Excavator: JCB 3CX					Logged By FP	Scale 1:25	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description				
0.00-1.80 0.00-1.80 0.00-1.80 0.00-1.80	B D ES PID=0.7ppm	1.80		MADE GROUND: Brown gravelly silty SAND with occasional rootlets, brick fragments rare roots and whole bricks. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising anthropogenic material and sandstone.				
				End of Trial Pit at 1.80m				
				0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5				
			Pit Dimensions			Pit Stability		
			Length (m)	Width (m)	Depth (m)	Stable		
			3.00	0.80	1.80			
			Remarks:					
			Trial pit dry. Trial pit carried out from surface into the slope, above ground level.					

Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description	
0.00-0.50 0.00-0.50 0.00-0.50	D ES PID=0.5ppm	0.50 1.30 1.70 2.80		MADE GROUND: Brown gravelly silty SAND with frequent rootlets, occasional brick fragments and rare whole bricks. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and anthropogenic material.	0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5
0.50-1.30 0.50-1.30 0.50-1.30	D ES PID=0.7ppm			MADE GROUND: Dark greyish brown gravelly silty SAND with occasional brick fragments and ash. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and anthropogenic material.	
1.30-1.70 1.30-1.70 1.30-1.70	D ES PID=0.5ppm			MADE GROUND: Brown gravelly SAND with rare brick fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and anthropogenic material.	
1.70-2.50 1.70-2.50 1.70-2.50	D ES PID=0.8ppm			MADE GROUND: Dark greyish brown gravelly silty SAND with occasional brick fragments and ash. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and anthropogenic material.	
				End of Trial Pit at 2.80m	



Remarks:
Trial pit dry.

Project: Dicken Green Mill, Rochdale

Client: MCI Developments Limited

Date: 19/02/2026 - 19/02/2026

Project No. : LKC251701

Contractor: H & C Plant Hire

Co-ords: 390076.86E, 411907.53N +/- 5m

Equipment: Excavator: JCB 3CX

Logged By
FP

Scale
1:25

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Sheet 1 of 1

Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description	
0.15-0.65 0.15-0.65 0.15-0.65	D ES PID=0.5ppm	0.15		MADE GROUND: Grey CONCRETE with 5mm rebar	
					0.5
0.65-1.00 0.65-1.00 0.65-1.00	D ES PID=0.6ppm	0.65		MADE GROUND: Light reddish brown gravelly SAND with occasional whole bricks and brick fragments. Sand is fine to coarse. Gravel is fine to coarse, subrounded comprising quartzite and sandstone.	
					1.0
1.50-1.80	B			Light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, siltstone, mudstone and quartzite. [Alluvium]	1.5
					2.0
		2.10		End of Trial Pit at 2.10m	2.5
					3.0
					3.5
					4.0
					4.5



Pit Dimensions			Pit Stability
Length (m)	Width (m)	Depth (m)	Unstable within natural strata.
2.60	0.80	2.10	

Remarks:

Trial pit dry.

LK CONSULT		Window Sample Borehole Log				Location Number: WS101	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 18/02/2026 - 18/02/2026		
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390124.90E, 411915.35N +/- 5m		
Equipment: Window Sample Rig: Competitor Dart				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)	Well
0.05-0.55	PID=0.0ppm	0.08		MADE GROUND: Dark grey TARMACADAM.			
0.10-0.15	ES			MADE GROUND: Medium dense dark brownish grey sandy slightly silty GRAVEL with frequent brick fragment and concrete fragments.			
0.10-0.15	PID=0.0ppm			Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, limestone and anthropogenic material.			
0.20-1.50	B	0.48		Medium dense reddish brown SAND. Sand is fine to medium.			
0.50-0.52	ES						
1.20-1.65	D					1	
1.20-1.65	N=14 (2,3/3,3,4,4)	1.50		Loose dark brown slightly gravelly SAND with occasional pockets of sandy clay. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone.			
2.00-2.45	B					2	
2.00-3.00	D						
2.00-2.45	N=8 (1,2/2,2,2,2)						
3.00-3.45	N=10 (3,4/5,2,1,2)					3	
4.00-4.44	D					4	
4.00-4.44	N=50 (7,11/50 for 290mm)	4.44		End of Borehole at 4.44m			
						5	
						6	
						7	
						8	
Remarks: Borehole is stable. Borehole is dry. Borehole terminated at 4.44mbgl upon SPT refusal.							

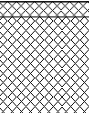
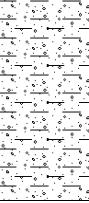
Remarks:
Borehole is stable.
Borehole is dry.

 LK CONSULT		Window Sample Borehole Log				Location Number: WS103	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 18/02/2026 - 18/02/2026		
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390070.63E, 411866.45N +/- 5m		
Equipment: Window Sample Rig: Competitor Dart				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1	

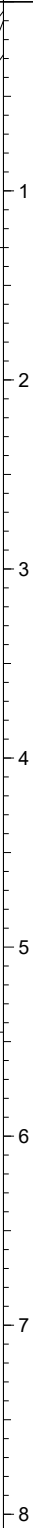
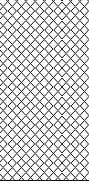
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)
0.12-0.25	ES	0.02		MADE GROUND: Light grey CONCRETE.		
0.12-0.25	PID=0.0ppm	0.12		MADE GROUND: Pink CONCRETE.		
0.30-0.35	ES	0.25		MADE GROUND: Dark grey slightly gravelly SAND with frequent brick fragments, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone and anthropogenic material.		
0.30-0.35	PID=0.0ppm			Medium dense dark brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.		1
1.20-1.65	D					
1.20-1.65	N=20 (2,4/5,5,6,4)					
2.00-2.45	B			2.00m to 3.00mbgl - Becomes loose.		2
2.00-3.00	D					
2.00-2.45	N=5 (1,1/1,1,1,2)					
3.00-3.45	D			3.00m to 3.80mbgl - Becomes dense.		3
3.00-3.45	N=31 (4,5/6,8,8,9)					
3.80-4.22	D			3.80m to 4.22mbgl - Becomes very dense.		4
3.80-4.22	N=50 (6,10/50 for 275mm)	4.22		End of Borehole at 4.22m		
						5
						6
						7
						8

Remarks:
 Borehole is stable.
 Borehole is dry.
 Borehole terminated at 4.22mbgl upon SPT refusal.

 LK CONSULT		Window Sample Borehole Log				Location Number: WS104	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 18/02/2026 - 18/02/2026		
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390084.83E, 411831.40N +/- 5m		
Equipment: Window Sample Rig: Premier Compact 110 Series				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)	Well
0.28-0.63 0.28-0.63	ES PID=0.0ppm	0.28		MADE GROUND: Pink CONCRETE.			
0.70-0.75 0.70-0.75	ES PID=0.0ppm	0.63		MADE GROUND: Dark grey slightly gravelly slightly silty SAND with frequent brick fragments, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone and anthropogenic material.			
1.00-1.80 1.20-1.65 1.20-1.65	D D N=13 (2,2/3,3,4,3)	1.80		Medium dense dark brown slightly gravelly SAND with occasional pockets of sandy silt. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.	1		
2.00-2.45 2.00-3.00 2.00-2.45	B D N=12 (2,2/3,3,3,3)			Medium dense reddish brown slightly gravelly SAND. Sand is fine to medium. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.	2		
3.00-3.45 3.00-3.45	D N=11 (2,2/2,3,2,4)				3		
4.00-4.45 4.00-4.45	D N=14 (2,3/3,4,3,4)				4		
5.00-5.45	N=14 (2,3/2,3,4,5)	5.45		End of Borehole at 5.45m	5		
					6		
					7		
					8		
Remarks: Borehole is stable. Borehole is dry.							

 LK CONSULT		Window Sample Borehole Log				Location Number: WS105	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 18/02/2026 - 18/02/2026		
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390070.32E, 411824.34N +/- 5m		
Equipment: Window Sample Rig: Competitor Dart				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)	Well
0.08-0.48 0.08-0.48	ES PID=0.0ppm	0.08		MADE GROUND: Pink CONCRETE.			
0.49-0.60 0.49-0.60	ES PID=0.0ppm	0.60		MADE GROUND: Dark grey slightly gravelly slightly silty SAND with frequent brick fragments, ash and clinker. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone and anthropogenic material.			
1.20-1.65 1.20-1.65	D N=13 (2,3/3,3,3,4)	1.60		0.48m to 0.49mbgl - Band of black gravelly SAND comprising ash and clinker.	1		
1.60-2.60	B	1.60		Soft consistency dark brown slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone, quartzite and coal.			
2.00-2.45	N=12 (2,2/3,3,3,3)			Loose dark brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.	2		
3.00-3.70 3.00-3.45	B N=16 (2,3/4,4,4,4)	3.00		Firm consistency high strength dark brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone, quartzite and coal.	3		
3.60 3.70-4.14 3.70-4.14 3.90	PP=112.8kPa D N=48 (9,11/48 for 285mm) PP=107.9kPa	4.14		End of Borehole at 4.14m	4		
					5		
					6		
					7		
					8		
Remarks: Borehole is stable. Borehole is dry. Borehole terminated at 4.14mbgl upon SPT refusal.							

 LK CONSULT		Window Sample Borehole Log				Location Number: WS106	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 19/02/2026		
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390114.51E, 411913.61N +/- 5m		
Equipment: Window Sample Rig: Competitor Dart				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)	Well
0.10-0.15 0.10-0.15 0.10-0.15	D ES PID=0.8ppm	0.10		MADE GROUND: Light grey CONCRETE.			
0.50-0.55 0.50-0.55 0.50-0.55	D ES PID=0.2ppm	0.45		MADE GROUND: Light brown gravelly SAND with frequent brick fragments and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, quartzite and anthropogenic material. Loose light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.			
1.20-1.45 1.20	D N=9 (1,2/2,2,3,2)					1	
2.00-2.45 2.00	D N=8 (1,2/2,2,2,2)					2	
3.00-3.45 3.00	D N=10 (1,2/2,2,3,3)					3	
4.00-4.45 4.00	D N=20 (2,4/5,6,4,5)			4.00m to 5.45mbgl - Becomes medium dense.		4	
5.00-5.45 5.00	D N=21 (3,4/4,5,6,6)	5.45		End of Borehole at 5.45m		5	
						6	
						7	
						8	
Remarks: Borehole is stable. Borehole is dry.							

		Window Sample Borehole Log			Location Number: WS107	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 19/02/2026	
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390090.52E, 411911.18N +/- 5m	
Equipment: Window Sample Rig: Competitor Dart				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)
0.30-0.35	ES	0.05		MADE GROUND: Dark grey TARMACADAM.		
		0.10		MADE GROUND: Light grey CONCRETE.		
		0.28		MADE GROUND: Pink CONCRETE.		
				MADE GROUND: Light brown gravelly SAND with frequent brick fragments and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, quartzite and anthropogenic material.		
1.20 1.30-1.35 1.30-1.35 1.30-1.35	N=10 (2,3/4,2,2,2) D D ES	1.30		Loose light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.		
2.00 2.20-2.45	N=7 (2,1/1,2,2,2) D					
3.00-3.45 3.00-4.00 3.00	B D N=4 (1,1/1,1,1,1)					
4.00-4.45 4.00	D N=18 (2,3/4,5,5,4)			4.00m to 5.45mbgl - Becomes medium dense.		
5.00	N=26 (4,5/6,7,7,6)	5.45		End of Borehole at 5.45m		
Remarks: Borehole is stable. Borehole is dry.						

 LK CONSULT		Window Sample Borehole Log				Location Number: WS108	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 19/02/2026 - 19/02/2026		
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390094.37E, 411930.80N +/- 5m		
Equipment: Window Sample Rig: Competitor Dart				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)	
0.25-0.30 0.25-0.30 0.25-0.30	D ES PID=0.9ppm	0.15		MADE GROUND: Light grey CONCRETE.			
				MADE GROUND: Loose light brown gravelly SAND with frequent brick fragments and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone, quartzite and anthropogenic material.	1		
1.20-1.65 1.20 1.30-1.35 1.30-1.35 1.30-1.35	D N=9 (1,2/2,2,2,3) D ES PID=0.2ppm	1.30		Loose light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse comprising sandstone and quartzite.			
2.00	N=22 (4,4/5,6,6,5)			2.00m to 3.00mbgl - Becomes medium dense.	2		
3.00-3.45 3.00	D N=6 (2,2/1,1,2,2)			3.00m to 4.00mbgl - Becomes loose.	3		
4.00-4.45 4.00	D N=10 (2,1/1,2,2,5)				4		
4.70-5.00 4.70 4.90 5.00	D PP=103.0kPa PP=98.1kPa N=40 (6,7/8,11,11,10)	4.70 5.00 5.45		Firm consistency high strength dark brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone, quartzite and coal.	5		
				Medium dense light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.			
				End of Borehole at 5.45m	6		
					7		
					8		
Remarks: Borehole is stable. Borehole is dry.							

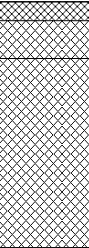
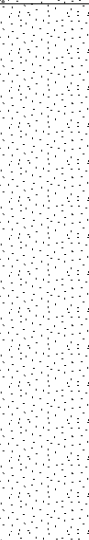


LK CONSULT

Window Sample Borehole Log

Location Number:
WS109

Project Name: Dicken Green Mill, Rochdale		Client: MCI Developments Limited		Date: 19/02/2026 - 19/02/2026	
Project No. : LKC251701		Contractor: D & I Drilling Ltd		Co-ords: 390082.03E, 411971.38N +/- 5m	
Equipment: Window Sample Rig: Competitor Dart			Logged By JL	Scale 1:40	Page Number Sheet 1 of 1

Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)
0.30-0.35 0.30-0.35	ES PID=0.4ppm	0.10 0.30		MADE GROUND: Dark grey TARMACADAM. MADE GROUND: Light grey sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular comprising limestone. MADE GROUND: Light brown gravelly SAND with frequent brick fragments and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse comprising sandstone, quartzite and anthropogenic material.		1
1.20-1.65 1.20 1.30-1.32 1.30-1.35 1.30-1.35 1.30-1.35	D N=1 (1,0/0,0,0,1) D D ES PID=0.8ppm	1.30		Very loose light brown gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.		2
2.00-2.45 2.00-3.00 2.00	B D N=9 (2,2/2,2,2,3)	2.10		Loose light brown SAND. Sand is fine to coarse.		3
3.00-3.45 3.00	D N=6 (2,2/1,1,2,2)					4
4.00-4.45 4.00	D N=14 (1,2/3,3,4,4)			4.00m to 5.00mbgl - Becomes medium dense.		5
5.00-5.45 5.00	D N=8 (1,2/2,2,2,2)	5.00		Firm consistency dark brown slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone andquartzite.		6
		5.45		End of Borehole at 5.45m		7
						8

Remarks:

Borehole is stable.
Strata damp at 5.00mbgl.

 LK CONSULT		Window Sample Borehole Log				Location Number: WS110	
Project Name: Dicken Green Mill, Rochdale			Client: MCI Developments Limited		Date: 19/02/2026 - 19/02/2026		
Project No. : LKC251701			Contractor: D & I Drilling Ltd		Co-ords: 390051.37E, 411952.41N +/- 5m		
Equipment: Window Sample Rig: Competitor Dart				Logged By JL	Scale 1:40	Page Number Sheet 1 of 1	
Depth (m)	Samples / Tests	Depth (m)	Legend	Stratum Description		Level (m)	Well
0.15-0.20 0.15-0.20 0.15-0.20 0.20-0.25 0.20-0.25 0.20-0.25	D ES PID=0.9ppm D ES PID=1.2ppm	0.15		MADE GROUND: Light grey CONCRETE.			
1.20-1.65 1.20	D N=7 (3,2/2,2,2,1)			MADE GROUND: Loose dark grey slightly gravelly slightly silty SAND with frequent brick fragments and occasional ash and clinker. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone and anthropogenic material.	1		
1.80-2.30 1.80-2.30 2.00-2.45 2.00	ES PID=2.5ppm D N=14 (4,4/7,3,2,2)	1.80		MADE GROUND: Soft black organic slightly gravelly sandy SILT with frequent brick fragments, wood fragments, glass fragments and concrete fragments. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded comprising sandstone, quartzite and anthropogenic material.	2		
2.90-3.00 2.90-3.00 2.90-3.00 3.00-3.45 3.00	D ES PID=0.2ppm D N=7 (2,2/1,2,2,2)	2.80		Loose to medium dense dark brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded comprising sandstone and quartzite.	3		
4.00	N=10 (1,2/2,2,3,3)				4		
5.00	N=10 (2,3/2,3,3,2)				5		
		5.45		End of Borehole at 5.45m	6		
					7		
					8		
Remarks: Borehole is stable. Borehole is dry.							

Appendix C – Certificates of Analysis (Soil)

Certificate of Analysis

Certificate Number 26-04356

Issued: 11-Mar-26

Client LK Consult Limited
Unit 29
Eton Business Park
Eton Hill Road
Radcliffe
Manchester
M26 2ZS

Our Reference 26-04356

Client Reference ~ LKC251701

Order No ~ PO-C002521

Contract Title ~ Dicken Green Mill Rochdale

Description 11 Soil samples.

Date Received 23-Feb-26

Date Started 23-Feb-26

Date Completed 11-Mar-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read "R Irfan".

Reyhan Irfan
Operations Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 26-04356

Client Ref ~ LKC251701

Contract Title ~ Dicken Green Mill Rochdale

Lab No	2646265	2646266	2646267	2646268	2646269	2646270	2646271
Sample ID ~	TP101	TP102	TP103	TP104	TP105	TP106	TP107
Depth ~	0.15-0.30	0.20-0.50	0.15-0.80	0.10-0.60	0.10-0.50	0.20-1.20	0.10-0.80
Other ID ~							
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	18/02/2026	18/02/2026	18/02/2026	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%		0.007	0.002				0.011
Preparation										
Moisture Content	DETSC 1004	0.1	%	16	6.3	8.4	2.1	11	13	10
Metals										
Arsenic	DETSC 2301#	0.2	mg/kg	9.7	7.8	9.8	1.2	6.5	9.3	6.1
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg		0.2	0.6			0.5	0.3
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	0.3	0.2	0.3	< 0.1	< 0.1	0.2
Chromium	DETSC 2301#	0.15	mg/kg	20	12	34	4.4	12	12	16
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	48	17	24	4.2	10	22	14
Lead	DETSC 2301#	0.3	mg/kg	13	60	74	6.0	18	37	16
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l			< 10				
Mercury	DETSC 2325#	0.05	mg/kg	0.05	< 0.05	1.3	< 0.05	< 0.05	0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	40	13	22	3.1	8.3	13	19
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	DETSC 2301#	0.8	mg/kg	67	18	30	5.2	16	21	24
Zinc	DETSC 2301#	1	mg/kg	62	43	93	12	26	34	55
Inorganics										
pH	DETSC 2008#		pH	11.4	8.7	8.8	9.4	10.8	8.3	8.4
Cyanide, Total	DETSC 2130#	0.1	mg/kg		< 0.1	0.3			0.2	< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg		< 0.1	< 0.1			< 0.1	< 0.1
Organic matter	DETSC 2002#	0.1	%	4.0	1.1	1.7	0.7	2.1	2.1	1.1
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l			1900				
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l			< 1.0				
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	120	17	95	18	310	26	43
Petroleum Hydrocarbons										
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5			< 1.5	< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg		< 1.2	< 1.2			< 1.2	< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg		< 1.5	< 1.5			< 1.5	< 1.5
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg		< 3.4	< 3.4			< 3.4	< 3.4
Aliphatic C35-C40: EH_CU_1D_AL	DETSC 3072*	3.4	mg/kg		< 3.4	< 3.4			< 3.4	< 3.4
Aliphatic C10-C44: EH_CU_1D_AL	DETSC 3072*	10	mg/kg		< 10	< 10			< 10	< 10
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg		< 10	< 10			< 10	< 10
Aliphatic C5-C44: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg		< 10	< 10			< 10	< 10
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg		< 0.9	13			< 0.9	8.8
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg		< 0.5	1.2			< 0.5	< 0.5

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04356

Client Ref ~ LKC251701

Contract Title ~ Dicken Green Mill Rochdale

Lab No	2646265	2646266	2646267	2646268	2646269	2646270	2646271
Sample ID ~	TP101	TP102	TP103	TP104	TP105	TP106	TP107
Depth ~	0.15-0.30	0.20-0.50	0.15-0.80	0.10-0.60	0.10-0.50	0.20-1.20	0.10-0.80
Other ID ~							
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	18/02/2026	18/02/2026	18/02/2026	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg		< 0.6	< 0.6			< 0.6	< 0.6
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg		< 1.4	< 1.4			< 1.4	< 1.4
Aromatic C35-C40: EH_CU_1D_AR	DETSC 3072*	1.4	mg/kg		< 1.4	< 1.4			< 1.4	< 1.4
Aromatic C10-C44: EH_CU_1D_AR	DETSC 3072*	10	mg/kg		< 10	14			< 10	< 10
Aromatic C5-C40: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg		< 10	14			< 10	< 10
Aromatic C5-C44: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg		< 10	14			< 10	< 10
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg		< 10	14			< 10	< 10
TPH Ali/Aro C5-C44: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg		< 10	14			< 10	< 10
Ali/Aro C10-C44: EH_CU_1D_Total	DETSC 3072*	10	mg/kg		< 10	14			< 10	< 10
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
m+p Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
o Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
MTBE	DETSC 3321	0.01	mg/kg		< 0.01	< 0.01			< 0.01	< 0.01
PAHs										
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	0.03	< 0.03	0.17	0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.07	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	2.0	0.05	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	1.7	0.09	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	0.34	0.16	0.14	14	0.71	0.06	0.09
Anthracene	DETSC 3303	0.03	mg/kg	0.06	< 0.03	< 0.03	2.8	0.56	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.42	0.14	0.30	8.7	0.72	0.28	0.17
Pyrene	DETSC 3303#	0.03	mg/kg	0.38	0.16	0.27	7.2	1.5	0.23	0.17
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.16	0.06	0.13	2.6	1.8	0.09	0.07
Chrysene	DETSC 3303	0.03	mg/kg	0.16	0.08	0.12	2.1	1.7	0.08	0.06
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.17	0.09	0.17	2.5	1.6	0.08	0.07
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.07	< 0.03	0.05	1.0	0.29	0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.13	0.06	0.11	2.0	1.9	0.06	0.05
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.06	0.03	0.05	0.81	0.38	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.21	0.22	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.08	0.05	0.07	0.99	1.0	< 0.03	0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	2.0	0.86	1.4	48	13	0.92	0.69
Phenols										
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3			< 0.3	< 0.3

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04356

Client Ref ~ LKC251701

Contract Title ~ Dicken Green Mill Rochdale

Lab No	2646272	2646273	2646274	2646275
Sample ID ~	TP108	TP109	TP109	TP110
Depth ~	0.00-1.80	0.00-0.50	0.50-1.30	0.15-0.65
Other ID ~				
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%			< 0.001	
Preparation							
Moisture Content	DETSC 1004	0.1	%	8.5	9.4	11	6.5
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	8.2	14	11	4.8
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	< 0.2			0.3
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.2	0.2	0.1
Chromium	DETSC 2301#	0.15	mg/kg	15	17	15	9.2
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	18	22	18	8.9
Lead	DETSC 2301#	0.3	mg/kg	20	32	37	12
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l				
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.07	0.08	< 0.05
Nickel	DETSC 2301#	1	mg/kg	16	20	16	7.4
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	DETSC 2301#	0.8	mg/kg	20	27	22	11
Zinc	DETSC 2301#	1	mg/kg	46	61	52	32
Inorganics							
pH	DETSC 2008#		pH	8.4	8.1	7.5	12.0
Cyanide, Total	DETSC 2130#	0.1	mg/kg	< 0.1			< 0.1
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1			< 0.1
Organic matter	DETSC 2002#	0.1	%	1.1	1.8	2.3	1.0
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l				
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l				
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	12	19	22	270
Petroleum Hydrocarbons							
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5			< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	< 1.2			2.7
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5			92
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4			680
Aliphatic C35-C40: EH_CU_1D_AL	DETSC 3072*	3.4	mg/kg	< 3.4			8.6
Aliphatic C10-C44: EH_CU_1D_AL	DETSC 3072*	10	mg/kg	< 10			790
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10			780
Aliphatic C5-C44: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10			790
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg	4.3			< 0.9
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg	< 0.5			< 0.5

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04356

Client Ref ~ LKC251701

Contract Title ~ Dicken Green Mill Rochdale

Lab No	2646272	2646273	2646274	2646275
Sample ID ~	TP108	TP109	TP109	TP110
Depth ~	0.00-1.80	0.00-0.50	0.50-1.30	0.15-0.65
Other ID ~				
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg	< 0.6			13
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg	< 1.4			130
Aromatic C35-C40: EH_CU_1D_AR	DETSC 3072*	1.4	mg/kg	< 1.4			3.7
Aromatic C10-C44: EH_CU_1D_AR	DETSC 3072*	10	mg/kg	< 10			150
Aromatic C5-C40: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10			150
Aromatic C5-C44: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg	< 10			150
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10			930
TPH Ali/Aro C5-C44: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg	< 10			940
Ali/Aro C10-C44: EH_CU_1D_Total	DETSC 3072*	10	mg/kg	< 10			940
Benzene	DETSC 3321#	0.01	mg/kg	< 0.01			< 0.01
Ethylbenzene	DETSC 3321#	0.01	mg/kg	< 0.01			< 0.01
Toluene	DETSC 3321#	0.01	mg/kg	< 0.01			< 0.01
Xylene	DETSC 3321#	0.01	mg/kg	< 0.01			< 0.01
m+p Xylene	DETSC 3321#	0.01	mg/kg	< 0.01			< 0.01
o Xylene	DETSC 3321#	0.01	mg/kg	< 0.01			< 0.01
MTBE	DETSC 3321	0.01	mg/kg	< 0.01			< 0.01
PAHs							
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.06	0.03	0.05
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.12	0.05	0.12
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.11	0.05	0.12
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	< 0.03	0.08
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	0.05	< 0.03	0.07
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.06	< 0.03	0.09
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.04	< 0.03	0.07
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	0.03	< 0.03	0.04
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	0.48	< 0.10	0.71
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	< 0.3			< 0.3

Summary of Asbestos Analysis Soil Samples

Our Ref 26-04356

Client Ref ~ LKC251701

Contract Title ~ Dicken Green Mill Rochdale

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2646265	TP101 0.15-0.30	SOIL	NAD	none	D Wilkinson
2646266	TP102 0.20-0.50	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
2646267	TP103 0.15-0.80	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
2646268	TP104 0.10-0.60	SOIL	NAD	none	D Wilkinson
2646269	TP105 0.10-0.50	SOIL	NAD	none	D Wilkinson
2646270	TP106 0.20-1.20	SOIL	NAD	none	D Wilkinson
2646271	TP107 0.10-0.80	SOIL	Chrysotile Chrysotile	Chrysotile present in microscopic thermoplastic floor tile fragment	D Wilkinson
2646272	TP108 0.00-1.80	SOIL	NAD	none	D Wilkinson
2646273	TP109 0.00-0.50	SOIL	NAD	none	D Wilkinson
2646274	TP109 0.50-1.30	SOIL	Chrysotile	Chrysotile present as fibre bundles	D Wilkinson
2646275	TP110 0.15-0.65	SOIL	NAD	none	D Wilkinson

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis

Soil Samples

Our Ref 26-04356

Client Ref ~ LKC251701

Contract Title ~ Dicken Green Mill Rochdale

Lab No	2646266	2646267	2646271
Sample ID ~	TP102	TP103	TP107
Depth ~	0.20-0.50	0.15-0.80	0.10-0.80
Other ID ~			
Sample Type ~			
Sampling Date ~	18/02/2026	18/02/2026	19/02/2026
Sampling Time ~			

Test	Method	LOQ	Units			
Total Mass% Asbestos (a+b+c)	DETSC 1102	< 0.001	Mass %	0.007	0.002	0.011
Gravimetric Quantification (a)	DETSC 1102	< 0.001	Mass %	na	na	0.011
Detailed Gravimetric Quantification (b)	DETSC 1102	< 0.001	Mass %	0.007	0.002	na
Quantification by PCOM (c)	DETSC 1102	< 0.001	Mass %	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	< 0.001	Fibres/g	na	na	na
Breakdown of Gravimetric Analysis (a)						
Mass of Sample			g	100.79	975.61	1209.13
ACMs present*			type			Thermoplastic
Mass of ACM in sample			g			0.5354
% ACM by mass			%			0.044
% asbestos in ACM			%			25
% asbestos in sample			%			0.011
Breakdown of Detailed Gravimetric Analysis (b)						
% Amphibole bundles in sample			Mass %	na	na	na
% Chrysotile bundles in sample			Mass %	0.007	0.002	na
Breakdown of PCOM Analysis (c)						
% Amphibole fibres in sample			Mass %	na	na	na
% Chrysotile fibres in sample			Mass %	na	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)						
Amphibole fibres			Fibres/g	na	na	na
Chrysotile fibres			Fibres/g	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample
 The results are based on dry weight.

Summary of Asbestos Quantification Analysis Soil Samples

Our Ref 26-04356

Client Ref ~ LKC251701

Contract Title ~ Dicken Green Mill Rochdale

Lab No	2646274
Sample ID ~	TP109
Depth ~	0.50-1.30
Other ID ~	
Sample Type ~	
Sampling Date ~	19/02/2026
Sampling Time ~	

Test	Method	LOQ	Units	
Total Mass% Asbestos (a+b+c)	DETSC 1102	< 0.001	Mass %	< 0.001
Gravimetric Quantification (a)	DETSC 1102	< 0.001	Mass %	na
Detailed Gravimetric Quantification (b)	DETSC 1102	< 0.001	Mass %	<0.001
Quantification by PCOM (c)	DETSC 1102	< 0.001	Mass %	na
Potentially Respirable Fibres (d)	DETSC 1102	< 0.001	Fibres/g	na
Breakdown of Gravimetric Analysis (a)				
Mass of Sample			g	1110.63
ACMs present*			type	
Mass of ACM in sample			g	
% ACM by mass			%	
% asbestos in ACM			%	
% asbestos in sample			%	
Breakdown of Detailed Gravimetric Analysis (b)				
% Amphibole bundles in sample			Mass %	na
% Chrysotile bundles in sample			Mass %	<0.001
Breakdown of PCOM Analysis (c)				
% Amphibole fibres in sample			Mass %	na
% Chrysotile fibres in sample			Mass %	na
Breakdown of Potentially Respirable Fibre Analysis (d)				
Amphibole fibres			Fibres/g	na
Chrysotile fibres			Fibres/g	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample
 The results are based on dry weight.

Information in Support of the Analytical Results

Our Ref 26-04356
 Client Ref ~ LKC251701
 Contract ~ Dicken Green Mill Rochdale

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2646265	TP101 0.15-0.30 SOIL	18/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646266	TP102 0.20-0.50 SOIL	18/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646267	TP103 0.15-0.80 SOIL	18/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646268	TP104 0.10-0.60 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646269	TP105 0.10-0.50 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646270	TP106 0.20-1.20 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646271	TP107 0.10-0.80 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646272	TP108 0.00-1.80 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646273	TP109 0.00-0.50 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646274	TP109 0.50-1.30 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		
2646275	TP110 0.15-0.65 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L		

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C35-C40	EH_CU_1D_AL
Aliphatic C10-C44	EH_CU_1D_AL
Aliphatic C5-C40	EH_CU+HS_1D_AL
Aliphatic C5-C44	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C35-C40	EH_CU_1D_AR
Aromatic C10-C44	EH_CU_1D_AR
Aromatic C5-C40	EH_CU+HS_1D_AR
Aromatic C5-C44	EH_CU+HS_1D_AR
TPH Ali/Aro C5-C40	EH_CU+HS_1D_Total
TPH Ali/Aro C5-C44	EH_CU+HS_1D_Total
Ali/Aro C10-C44	EH_CU_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

Certificate of Analysis

Certificate Number 26-04357

Issued: 10-Mar-26

Client LK Consult Limited
Unit 29
Eton Business Park
Eton Hill Road
Radcliffe
Manchester
M26 2ZS

Our Reference 26-04357

Client Reference ~ LKC251701

Order No ~ PO-C002521

Contract Title ~ Dicken Greren Mill Rochdale

Description 11 Soil samples.

Date Received 23-Feb-26

Date Started 23-Feb-26

Date Completed 10-Mar-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By



Louise Cook
Contracts Manager



2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS Limited

Unit 2, Park Road Industrial Estate South, Consett, Co Durham, DH8 5PY
Tel: 01207 582333 • email: info-dets@normecgroup.com • normecdets.com

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646276	2646277	2646278	2646279	2646280	2646281	2646282
Sample ID ~	WS101	WS102	WS103	WS104	WS105	WS106	WS107
Depth ~	0.10-0.15	0.20-0.25	0.30-0.35	0.28-0.63	0.08-0.48	0.10-0.15	0.30-0.35
Other ID ~							
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	18/02/2026	18/02/2026	18/02/2026	18/02/2026	18/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Asbestos Quantification (Gravimetric)	DETS 1102	0.001	%				< 0.001	< 0.001		
Preparation										
Moisture Content	DETS 1004	0.1	%	8.1	2.3	7.1	11	7.5	4.1	13
Metals										
Arsenic	DETS 2301#	0.2	mg/kg	3.7	1.6	27	4.9	7.3	6.6	33
Boron, Water Soluble (2.5:1)	DETS 2311#	0.2	mg/kg		< 0.2	0.7			0.4	
Cadmium	DETS 2301#	0.1	mg/kg	0.2	0.2	0.1	< 0.1	0.3	0.2	0.2
Chromium	DETS 2301#	0.15	mg/kg	9.1	5.8	22	3.6	16	12	14
Chromium, Hexavalent	DETS 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETS 2301#	0.2	mg/kg	14	9.8	16	6.7	45	18	60
Lead	DETS 2301#	0.3	mg/kg	91	12	19	6.9	38	18	95
Magnesium Aqueous Extract (2:1)	DETS 2076*	10	mg/l							
Mercury	DETS 2325#	0.05	mg/kg	0.09	< 0.05	< 0.05	< 0.05	0.55	0.05	0.15
Nickel	DETS 2301#	1	mg/kg	8.0	5.4	20	3.0	19	11	19
Selenium	DETS 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	DETS 2301#	0.8	mg/kg	13	5.3	31	8.1	21		28
Zinc	DETS 2301#	1	mg/kg	39	17	50	23	75	39	54
Inorganics										
pH	DETS 2008#		pH	8.8	9.0	8.0	11.6	8.6	10.8	8.7
Cyanide, Total	DETS 2130#	0.1	mg/kg		< 0.1	< 0.1			< 0.1	
Cyanide, Free	DETS 2130#	0.1	mg/kg		< 0.1	< 0.1			< 0.1	
Total Organic Carbon	DETS 2084#	0.5	%						3.3	
Organic matter	DETS 2002#	0.1	%	1.3	< 0.1	1.8	< 0.1	1.2	< 0.1	3.5
Chloride Aqueous Extract (2:1)	DETS 2055	1	mg/l							
Nitrate Aqueous Extract as NO3 (2:1)	DETS 2055	1	mg/l							
Sulphate Aqueous Extract as SO4 (2:1)	DETS 2076*	0.001	%						0.003	
Sulphate Aqueous Extract as SO4 (2:1)	DETS 2076#	10	mg/l	59	19	82	87	35		41
Petroleum Hydrocarbons										
Aliphatic C5-C6: HS_1D_AL	DETS 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Aliphatic C6-C8: HS_1D_AL	DETS 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Aliphatic C8-C10: HS_1D_AL	DETS 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Aliphatic C10-C12: EH_CU_1D_AL	DETS 3072#	1.5	mg/kg		< 1.5	< 1.5			< 1.5	
Aliphatic C12-C16: EH_CU_1D_AL	DETS 3072#	1.2	mg/kg		< 1.2	< 1.2			< 1.2	
Aliphatic C16-C21: EH_CU_1D_AL	DETS 3072#	1.5	mg/kg		< 1.5	< 1.5			75	
Aliphatic C21-C35: EH_CU_1D_AL	DETS 3072#	3.4	mg/kg		< 3.4	< 3.4			5000	
Aliphatic C35-C40: EH_CU_1D_AL	DETS 3072*	3.4	mg/kg		< 3.4	< 3.4			58	
Aliphatic C10-C44: EH_CU_1D_AL	DETS 3072*	10	mg/kg		< 10	< 10			5100	
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETS 3072*	10	mg/kg		< 10	< 10			5100	
Aliphatic C5-C44: EH_CU+HS_1D_AL	DETS 3072*	10	mg/kg		< 10	< 10			5100	
Aromatic C5-C7: HS_1D_AR	DETS 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Aromatic C7-C8: HS_1D_AR	DETS 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Aromatic C8-C10: HS_1D_AR	DETS 3321*	0.01	mg/kg		< 0.01	< 0.01			< 0.01	

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646276	2646277	2646278	2646279	2646280	2646281	2646282
Sample ID ~	WS101	WS102	WS103	WS104	WS105	WS106	WS107
Depth ~	0.10-0.15	0.20-0.25	0.30-0.35	0.28-0.63	0.08-0.48	0.10-0.15	0.30-0.35
Other ID ~							
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	18/02/2026	18/02/2026	18/02/2026	18/02/2026	18/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units							
Aromatic C10-C12: EH_CU_1D_AR	DETSC 3072#	0.9	mg/kg		< 0.9	7.3			12	
Aromatic C12-C16: EH_CU_1D_AR	DETSC 3072#	0.5	mg/kg		< 0.5	< 0.5			6.9	
Aromatic C16-C21: EH_CU_1D_AR	DETSC 3072#	0.6	mg/kg		< 0.6	< 0.6			49	
Aromatic C21-C35: EH_CU_1D_AR	DETSC 3072#	1.4	mg/kg		1.8	< 1.4			430	
Aromatic C35-C40: EH_CU_1D_AR	DETSC 3072*	1.4	mg/kg		< 1.4	< 1.4			63	
Aromatic C10-C44: EH_CU_1D_AR	DETSC 3072*	10	mg/kg		< 10	< 10			530	
Aromatic C5-C40: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg		< 10	< 10			560	
Aromatic C5-C44: EH_CU+HS_1D_AR	DETSC 3072*	10	mg/kg		< 10	< 10			530	
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg		< 10	< 10			5700	
TPH Ali/Aro C5-C44: EH_CU+HS_1D_Total	DETSC 3072*	10	mg/kg		< 10	< 10			5700	
Ali/Aro C10-C44: EH_CU_1D_Total	DETSC 3072*	10	mg/kg		< 10	< 10			5700	
Benzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Ethylbenzene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Toluene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
m+p Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01				
o Xylene	DETSC 3321#	0.01	mg/kg		< 0.01	< 0.01				
MTBE	DETSC 3321	0.01	mg/kg		< 0.01	< 0.01			< 0.01	
PAHs										
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	0.24	< 0.03	< 0.03	0.07	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	0.22	< 0.03	< 0.03	0.05	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	2.6	0.04	< 0.03	0.44	0.04	0.14	0.04
Anthracene	DETSC 3303	0.03	mg/kg	0.53	< 0.03	< 0.03	0.10	< 0.03	0.11	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	2.6	0.03	0.03	1.2	0.04	0.35	0.06
Pyrene	DETSC 3303#	0.03	mg/kg	2.2	< 0.03	0.03	1.1	0.04	0.71	0.05
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	0.76	< 0.03	< 0.03	0.38	< 0.03	1.1	0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.66	< 0.03	< 0.03	0.39	< 0.03	0.76	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.66	< 0.03	< 0.03	0.41	< 0.03	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	0.24	< 0.03	< 0.03	0.16	< 0.03	0.19	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	0.55	< 0.03	< 0.03	0.32	< 0.03	1.0	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	0.10	< 0.03	< 0.03	0.07	< 0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	0.11	< 0.03	< 0.03	0.07	< 0.03	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	11	< 0.10	< 0.10	4.8	0.12	4.3	0.15
PCBs										
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg						< 0.01	
PCB 52	DETSC 3401#	0.01	mg/kg						< 0.01	
PCB 101	DETSC 3401#	0.01	mg/kg						< 0.01	
PCB 118	DETSC 3401#	0.01	mg/kg						< 0.01	
PCB 153	DETSC 3401#	0.01	mg/kg						< 0.01	

Summary of Chemical Analysis Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646276	2646277	2646278	2646279	2646280	2646281	2646282
Sample ID ~	WS101	WS102	WS103	WS104	WS105	WS106	WS107
Depth ~	0.10-0.15	0.20-0.25	0.30-0.35	0.28-0.63	0.08-0.48	0.10-0.15	0.30-0.35
Other ID ~							
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	18/02/2026	18/02/2026	18/02/2026	18/02/2026	18/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units						
PCB 138	DETSC 3401#	0.01	mg/kg					< 0.01	
PCB 180	DETSC 3401#	0.01	mg/kg					< 0.01	
PCB 7 Total	DETSC 3401#	0.01	mg/kg					< 0.01	
Phenols									
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg		< 0.3	< 0.3		2.3	

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646283	2646284	2646285	2646286
Sample ID ~	WS108	WS109	WS110	WS110
Depth ~	0.25-0.30	0.30-0.35	0.15-0.20	1.80-2.30
Other ID ~				
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Asbestos Quantification (Gravimetric)	DETSC 1102	0.001	%			0.001	
Preparation							
Moisture Content	DETSC 1004	0.1	%	8.8	4.9	10	27
Metals							
Arsenic	DETSC 2301#	0.2	mg/kg	20	4.5	11	42
Boron, Water Soluble (2.5:1)	DETSC 2311#	0.2	mg/kg	1.7			1.1
Cadmium	DETSC 2301#	0.1	mg/kg	< 0.1	< 0.1	0.2	2.4
Chromium	DETSC 2301#	0.15	mg/kg	13	5.4	16	32
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	54	9.8	20	250
Lead	DETSC 2301#	0.3	mg/kg	110	9.5	40	350
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l	36			
Mercury	DETSC 2325#	0.05	mg/kg	0.08	< 0.05	0.06	0.47
Nickel	DETSC 2301#	1	mg/kg	15	6.4	17	43
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vanadium	DETSC 2301#	0.8	mg/kg	26	7.2	23	32
Zinc	DETSC 2301#	1	mg/kg	42	28	61	1100
Inorganics							
pH	DETSC 2008#		pH	7.3	8.7	8.4	7.3
Cyanide, Total	DETSC 2130#	0.1	mg/kg	0.2			1.0
Cyanide, Free	DETSC 2130#	0.1	mg/kg	< 0.1			0.2
Total Organic Carbon	DETSC 2084#	0.5	%				
Organic matter	DETSC 2002#	0.1	%	< 0.1	0.7	< 0.1	11
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l	590			
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l	1.2			
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076*	0.001	%	0.073			0.018
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	730	33	69	
Petroleum Hydrocarbons							
Aliphatic C5-C6: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aliphatic C6-C8: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aliphatic C8-C10: HS_1D_AL	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aliphatic C10-C12: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5			< 1.5
Aliphatic C12-C16: EH_CU_1D_AL	DETSC 3072#	1.2	mg/kg	< 1.2			< 1.2
Aliphatic C16-C21: EH_CU_1D_AL	DETSC 3072#	1.5	mg/kg	< 1.5			41
Aliphatic C21-C35: EH_CU_1D_AL	DETSC 3072#	3.4	mg/kg	< 3.4			440
Aliphatic C35-C40: EH_CU_1D_AL	DETSC 3072*	3.4	mg/kg	< 3.4			89
Aliphatic C10-C44: EH_CU_1D_AL	DETSC 3072*	10	mg/kg	< 10			650
Aliphatic C5-C40: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10			570
Aliphatic C5-C44: EH_CU+HS_1D_AL	DETSC 3072*	10	mg/kg	< 10			650
Aromatic C5-C7: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aromatic C7-C8: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01
Aromatic C8-C10: HS_1D_AR	DETSC 3321*	0.01	mg/kg	< 0.01			< 0.01

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646283	2646284	2646285	2646286
Sample ID ~	WS108	WS109	WS110	WS110
Depth ~	0.25-0.30	0.30-0.35	0.15-0.20	1.80-2.30
Other ID ~				
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
Aromatic C10-C12: EH_CU_1D_AR	DETS 3072#	0.9	mg/kg	20			21
Aromatic C12-C16: EH_CU_1D_AR	DETS 3072#	0.5	mg/kg	< 0.5			1.3
Aromatic C16-C21: EH_CU_1D_AR	DETS 3072#	0.6	mg/kg	2.0			7.9
Aromatic C21-C35: EH_CU_1D_AR	DETS 3072#	1.4	mg/kg	< 1.4			150
Aromatic C35-C40: EH_CU_1D_AR	DETS 3072*	1.4	mg/kg	< 1.4			80
Aromatic C10-C44: EH_CU_1D_AR	DETS 3072*	10	mg/kg	23			220
Aromatic C5-C40: EH_CU+HS_1D_AR	DETS 3072*	10	mg/kg	23			260
Aromatic C5-C44: EH_CU+HS_1D_AR	DETS 3072*	10	mg/kg	23			220
TPH Ali/Aro C5-C40: EH_CU+HS_1D_Total	DETS 3072*	10	mg/kg	23			830
TPH Ali/Aro C5-C44: EH_CU+HS_1D_Total	DETS 3072*	10	mg/kg	23			870
Ali/Aro C10-C44: EH_CU_1D_Total	DETS 3072*	10	mg/kg	23			870
Benzene	DETS 3321#	0.01	mg/kg	< 0.01			< 0.01
Ethylbenzene	DETS 3321#	0.01	mg/kg	< 0.01			< 0.01
Toluene	DETS 3321#	0.01	mg/kg	< 0.01			< 0.01
Xylene	DETS 3321#	0.01	mg/kg	< 0.01			< 0.01
m+p Xylene	DETS 3321#	0.01	mg/kg				
o Xylene	DETS 3321#	0.01	mg/kg				
MTBE	DETS 3321	0.01	mg/kg	< 0.01			< 0.01
PAHs							
Naphthalene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.04
Acenaphthylene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.41
Fluorene	DETS 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.12
Phenanthrene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	0.03	0.82
Anthracene	DETS 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.20
Fluoranthene	DETS 3303#	0.03	mg/kg	< 0.03	0.04	0.05	1.5
Pyrene	DETS 3303#	0.03	mg/kg	< 0.03	0.04	0.05	1.4
Benzo(a)anthracene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.63
Chrysene	DETS 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.59
Benzo(b)fluoranthene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.60
Benzo(k)fluoranthene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.23
Benzo(a)pyrene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.48
Indeno(1,2,3-c,d)pyrene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.09
Dibenzo(a,h)anthracene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETS 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	0.10
PAH - USEPA 16, Total	DETS 3303	0.1	mg/kg	< 0.10	< 0.10	0.14	7.2
PCBs							
PCB 28 + PCB 31	DETS 3401#	0.01	mg/kg				
PCB 52	DETS 3401#	0.01	mg/kg				
PCB 101	DETS 3401#	0.01	mg/kg				
PCB 118	DETS 3401#	0.01	mg/kg				
PCB 153	DETS 3401#	0.01	mg/kg				

Summary of Chemical Analysis Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646283	2646284	2646285	2646286
Sample ID ~	WS108	WS109	WS110	WS110
Depth ~	0.25-0.30	0.30-0.35	0.15-0.20	1.80-2.30
Other ID ~				
Sample Type ~	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s	n/s

Test	Method	LOD	Units				
PCB 138	DETSC 3401#	0.01	mg/kg				
PCB 180	DETSC 3401#	0.01	mg/kg				
PCB 7 Total	DETSC 3401#	0.01	mg/kg				
Phenols							
Phenol - Monohydric	DETSC 2130#	0.3	mg/kg	0.7			1.5

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646281	2646283	2646286
Sample ID ~	WS106	WS108	WS110
Depth ~	0.10-0.15	0.25-0.30	1.80-2.30
Other ID ~			
Sample Type ~	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
VOCs						
Vinyl Chloride	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1 Dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trans-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Cis-1,2-dichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chloroform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Carbon tetrachloride	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Benzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Trichloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromomethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromodichloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
cis-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Toluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
trans-1,3-dichloropropene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,2-trichloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tetrachloroethylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Dibromochloromethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromoethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Chlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Ethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
m+p-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
o-Xylene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Styrene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromoform	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Isopropylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Bromobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-propylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
2-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3,5-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
4-chlorotoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Tert-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trimethylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01

Summary of Chemical Analysis

Soil VOC/SVOC Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646281	2646283	2646286
Sample ID ~	WS106	WS108	WS110
Depth ~	0.10-0.15	0.25-0.30	1.80-2.30
Other ID ~			
Sample Type ~	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
sec-butylbenzene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
p-isopropyltoluene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,3-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,4-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
n-butylbenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2-dibromo-3-chloropropane	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,4-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
1,2,3-trichlorobenzene	DETSC 3431	0.01	mg/kg	< 0.01	< 0.01	< 0.01
MTBE	DETSC 3431*	0.01	mg/kg	< 0.01	< 0.01	< 0.01
SVOCs						
Phenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Benzyl Alcohol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-chloroisopropyl)ether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3&4-Methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dimethylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis-(dichloroethoxy)methane	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2,4-Trichlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	0.2
Hexachlorocyclopentadiene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
3-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibenzofuran	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	0.2
2,6-Dinitrotoluene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,4,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diethylphthalate	DETSC 3433	0.1	mg/kg	0.5	< 0.1	< 0.1
4-Chlorophenylphenylether	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Nitroaniline	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-Dinitrophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Diphenylamine	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4-Bromophenylphenylether	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1

Summary of Chemical Analysis Soil VOC/SVOC Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646281	2646283	2646286
Sample ID ~	WS106	WS108	WS110
Depth ~	0.10-0.15	0.25-0.30	1.80-2.30
Other ID ~			
Sample Type ~	SOIL	SOIL	SOIL
Sampling Date ~	19/02/2026	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
Hexachlorobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Pentachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-butylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Butylbenzylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bis(2-ethylhexyl)phthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Di-n-octylphthalate	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,4-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dimethylphthalate	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,3-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
1,2-Dinitrobenzene	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
2,3,5,6-Tetrachlorophenol	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Azobenzene	DETSC 3433	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Carbazole	DETSC 3433*	0.1	mg/kg	< 0.1	< 0.1	0.2

Summary of Asbestos Analysis Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2646276	WS101 0.10-0.15	SOIL	NAD	none	Steven Lambert
2646277	WS102 0.20-0.25	SOIL	NAD	none	Steven Lambert
2646278	WS103 0.30-0.35	SOIL	NAD	none	Steven Lambert
2646279	WS104 0.28-0.63	SOIL	Amosite	Amosite present as fibre bundles	Steven Lambert
2646280	WS105 0.08-0.48	SOIL	Chrysotile	Chrysotile present as fibre bundles	Steven Lambert
2646281	WS106 0.10-0.15	SOIL	NAD	none	Steven Lambert
2646282	WS107 0.30-0.35	SOIL	NAD	none	Steven Lambert
2646283	WS108 0.25-0.30	SOIL	NAD	none	Steven Lambert
2646284	WS109 0.30-0.35	SOIL	NAD	none	Steven Lambert
2646285	WS110 0.15-0.20	SOIL	Chrysotile	Chrysotile present as fibre bundles	Steven Lambert
2646286	WS110 1.80-2.30	SOIL	NAD	none	Steven Lambert

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Summary of Asbestos Quantification Analysis Soil Samples

Our Ref 26-04357

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2646279	2646280	2646285
Sample ID ~	WS104	WS105	WS110
Depth ~	0.28-0.63	0.08-0.48	0.15-0.20
Other ID ~			
Sample Type ~			
Sampling Date ~	18/02/2026	18/02/2026	19/02/2026
Sampling Time ~			

Test	Method	LOQ	Units			
Total Mass% Asbestos (a+b+c)	DETSC 1102	< 0.001	Mass %	< 0.001	< 0.001	0.001
Gravimetric Quantification (a)	DETSC 1102	< 0.001	Mass %	na	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	< 0.001	Mass %	<0.001	<0.001	0.001
Quantification by PCOM (c)	DETSC 1102	< 0.001	Mass %	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	< 0.001	Fibres/g	na	na	na
Breakdown of Gravimetric Analysis (a)						
Mass of Sample			g	546.04	1009.39	674.22
ACMs present*			type			
Mass of ACM in sample			g			
% ACM by mass			%			
% asbestos in ACM			%			
% asbestos in sample			%			
Breakdown of Detailed Gravimetric Analysis (b)						
% Amphibole bundles in sample			Mass %	<0.001	na	na
% Chrysotile bundles in sample			Mass %	na	<0.001	0.001
Breakdown of PCOM Analysis (c)						
% Amphibole fibres in sample			Mass %	na	na	na
% Chrysotile fibres in sample			Mass %	na	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)						
Amphibole fibres			Fibres/g	na	na	na
Chrysotile fibres			Fibres/g	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample
 The results are based on dry weight.

Information in Support of the Analytical Results

Our Ref 26-04357

Client Ref ~ LKC251701

Contract ~ Dicken Greren Mill Rochdale

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	time exceeded for tests	Incorrect container for tests	Headspace in container for tests
2646276	WS101 0.10-0.15 SOIL	18/02/26	GJ 250ml, GJ 30ml, PT 1L			
2646277	WS102 0.20-0.25 SOIL	18/02/26	GJ 250ml ((Headspace)), GJ 30ml ((Headspace)), PT 1L ((Headspace))			BTEX/C5-10, HS
2646278	WS103 0.30-0.35 SOIL	18/02/26	GJ 250ml ((Headspace)), GJ 30ml ((Headspace)), PT 1L ((Headspace))			BTEX/C5-10, HS
2646279	WS104 0.28-0.63 SOIL	18/02/26	GJ 250ml, GJ 30ml, PT 1L			
2646280	WS105 0.08-0.48 SOIL	18/02/26	GJ 250ml, GJ 30ml, PT 1L			
2646281	WS106 0.10-0.15 SOIL	19/02/26	GJ 250ml ((Headspace)), GJ 30ml ((Headspace)), PT 1L ((Headspace))			BTEX/C5-10, VOC, HS
2646282	WS107 0.30-0.35 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L			
2646283	WS108 0.25-0.30 SOIL	19/02/26	PT 1L ((Headspace))		Aliphatics/Aromatics, BTEX / C5-C10, Naphthalene, PAH MS, SVOC	BTEX/C5-10, VOC, HS
2646284	WS109 0.30-0.35 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L			
2646285	WS110 0.15-0.20 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L			
2646286	WS110 1.80-2.30 SOIL	19/02/26	GJ 250ml ((Headspace)), GJ 30ml ((Headspace)), PT 1L ((Headspace))			BTEX/C5-10, VOC, HS

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det	Acronym
Aliphatic C5-C6	HS_1D_AL
Aliphatic C6-C8	HS_1D_AL
Aliphatic C8-C10	HS_1D_AL
Aliphatic C10-C12	EH_CU_1D_AL
Aliphatic C12-C16	EH_CU_1D_AL
Aliphatic C16-C21	EH_CU_1D_AL
Aliphatic C21-C35	EH_CU_1D_AL
Aliphatic C35-C40	EH_CU_1D_AL
Aliphatic C10-C44	EH_CU_1D_AL
Aliphatic C5-C40	EH_CU+HS_1D_AL
Aliphatic C5-C44	EH_CU+HS_1D_AL
Aromatic C5-C7	HS_1D_AR
Aromatic C7-C8	HS_1D_AR
Aromatic C8-C10	HS_1D_AR
Aromatic C10-C12	EH_CU_1D_AR
Aromatic C12-C16	EH_CU_1D_AR
Aromatic C16-C21	EH_CU_1D_AR
Aromatic C21-C35	EH_CU_1D_AR
Aromatic C35-C40	EH_CU_1D_AR
Aromatic C10-C44	EH_CU_1D_AR
Aromatic C5-C40	EH_CU+HS_1D_AR
Aromatic C5-C44	EH_CU+HS_1D_AR
TPH Ali/Aro C5-C40	EH_CU+HS_1D_Total
TPH Ali/Aro C5-C44	EH_CU+HS_1D_Total
Ali/Aro C10-C44	EH_CU_1D_Total

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

Certificate of Analysis

Certificate Number 26-06272

Issued: 23-Mar-26

Client LK Consult Limited
Unit 29
Eton Business Park
Eton Hill Road
Radcliffe
Manchester
M26 2ZS

Our Reference 26-06272

Client Reference ~ LKC251701

Order No ~ PO-C002521

Contract Title ~ Dicken Greren Mill Rochdale

Description 1 Soil sample.

Date Received 23-Feb-26

Date Started 16-Mar-26

Date Completed 23-Mar-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read "Adam Geddes".

Adam Geddes
Laboratory Manager



2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS Limited

Unit 2, Park Road Industrial Estate South, Consett, Co Durham, DH8 5PY
Tel: 01207 582333 • email: info-dets@normecgroup.com • normecdets.com

Summary of Chemical Analysis

Soil Samples

Our Ref 26-06272

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2656863
Sample ID ~	WS108
Depth ~	0.25-0.30
Other ID ~	
Sample Type ~	SOIL
Sampling Date ~	19/02/2026
Sampling Time ~	n/s

Test	Method	LOD	Units	
PCBs				
PCB 28 + PCB 31	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 52	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 101	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 118	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 153	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 138	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 180	DETSC 3401#	0.01	mg/kg	< 0.01
PCB 7 Total	DETSC 3401#	0.01	mg/kg	< 0.01

Information in Support of the Analytical Results

Our Ref 26-06272
 Client Ref ~ LKC251701
 Contract ~ Dicken Greten Mill Rochdale

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date		Containers Received	Holding time exceeded for tests	Incorrect container for tests
		Sampled ~				
2656863	WS108 0.25-0.30 SOIL	19/02/26		PT 1L		PCB

Key: P-Plastic T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
 Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
 The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
 Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:

~ Sample details are provided by the client and can affect the validity of the results
 * -not accredited.
 # -MCERTS (accreditation only applies if report carries the MCERTS logo).
 \$ -subcontracted.
 n/s -not supplied.
 I/S -insufficient sample.
 U/S -unsuitable sample.
 t/f -to follow.
 nd -not detected.

End of Report Ver 26.03.14

Appendix D – Certificates of Analysis (Geotechnical)

Certificate of Analysis

Certificate Number 26-04849

Issued: 13-Mar-26

Client LK Consult Limited
Unit 29
Eton Business Park
Eton Hill Road
Radcliffe
Manchester
M26 2ZS

Our Reference 26-04849

Client Reference ~ LKC251701

Order No ~ PO-C002521

Contract Title ~ Dicken Greren Mill Rochdale

Description 2 Soil samples.

Date Received 02-Mar-26

Date Started 02-Mar-26

Date Completed 13-Mar-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By



Reyhan Irfan
Operations Manager



2139

Sample Deviations present. See Deviation Table Section for details.

Normec DETS Limited

Unit 2, Park Road Industrial Estate South, Consett, Co Durham, DH8 5PY
Tel: 01207 582333 • email: info-dets@normecgroup.com • normecdets.com

Summary of Chemical Analysis

Soil Samples

Our Ref 26-04849

Client Ref ~ LKC251701

Contract Title ~ Dicken Greren Mill Rochdale

Lab No	2649167	2649168
Sample ID ~	WS108	WS102
Depth ~	1.30-1.35	0.50-0.55
Other ID ~		
Sample Type ~	ES	ES
Sampling Date ~	19/02/2026	19/02/2026
Sampling Time ~	n/s	n/s

Test	Method	LOD	Units		
Metals					
Magnesium Aqueous Extract (2:1)	DETSC 2076*	10	mg/l	< 10	< 10
Inorganics					
pH	DETSC 2008#		pH	9.0	8.0
Chloride Aqueous Extract (2:1)	DETSC 2055	1	mg/l	9.3	4.8
Nitrate Aqueous Extract as NO3 (2:1)	DETSC 2055	1	mg/l	< 1.0	< 1.0
Sulphate Aqueous Extract as SO4 (2:1)	DETSC 2076#	10	mg/l	36	12

Information in Support of the Analytical Results

Our Ref 26-04849
 Client Ref ~ LKC251701
 Contract ~ Dicken Greren Mill Rochdale

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2649167	WS108 1.30-1.35 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L	pH + Conductivity (7 days)	
2649168	WS102 0.50-0.55 SOIL	19/02/26	GJ 250ml, GJ 30ml, PT 1L	pH + Conductivity (7 days)	

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.10.03

Serial number: LT2092

Date of issue: 09/04/2026

Page 1 of 6

Issued by	Soil Engineering Geoservices Limited, Parkside Lane, Dewsbury Road, Leeds LS11 5SX. Tel: 0113 2711111 Email: enquiries@soil-engineering.co.uk	Authorised signatory <i>S. Harper</i> P. A. Rodgers (Technical Manager) S. D. Harper ✓ (Laboratory Production Manager)
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Customer name	Murray Rix (Northern) Ltd
Address	Andrew House Hadfield Street Dukinfield Cheshire SK16 4QX

Contract name	LKC251701 Dicken Green Mill
Your reference	PO 26/101

Dates of receipt of samples	13/03/2026
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Dates of testing	18/03/2026 to 01/04/2026
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Sampling was not performed by the Laboratory of Soil Engineering.

Testing was performed on 2 number of samples received in good condition.

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

Results reported relate only to the samples tested.

Tests marked 'Not UKAS' in this report are not included in the UKAS accreditation schedule for our laboratory. These results will appear in italics on any summary of tests.

Samples will be retained for 28 days from date of issue of this report and then be disposed of, unless we receive written instruction to the contrary

Key to Laboratory Summary Sheets

Common to all summaries

Sample Type	U	Undisturbed sample	D	Small disturbed sample
	P	Piston sample	B	Bulk disturbed sample
	TW	Thin walled sample	BLK	Block sample
	L	Liner sample	C	Rock core
	AMAL	Amalgamated sample		
Test status	Any result in <i>italics</i> indicates a test that is not within the scope of the UKAS accreditation for this laboratory.			

Summary of Laboratory Soil Tests: Index / Classification Tests

Particle density	p		g	Gas jar method
Plastic index	N/P	Non plastic, although liquid limit will have been determined if requested		
Particle size (PSD)	¹	Following value in silt column denotes combined clay and silt fraction		
	p	Following value in clay column denotes sedimentation by pipette, else sedimentation is by hydrometer.		

Summary of Laboratory Soil Tests: Strength and Permeability Tests

Triaxial	UU	Single stage unconsolidated quick undrained	UUM	Multi stage unconsolidated quick undrained
	UU3	Set of 3 unconsolidated quick undrained	CU	Single stage consolidated undrained
	CUM	Multi stage consolidated undrained	CU3	Set of 3 consolidated undrained
	CD	Single stage consolidated drained	CDM	Multi stage consolidated drained
	CD3	Set of 3 consolidated drained		
	Note that single stage tests are reported assuming $f = 0$ for total stress and $c' = 0$ for effective stress			
Consol	Oed	One-dimensional oedometer	Hyd	Hydraulic cell consolidation
	m_v	coefficient of compressibility quoted for p_0 to $p_0 + 100\text{kPa}$, where determined		
Permeability	C	Constant head permeability	T	Triaxial permeability
Shearbox	SSB	Small shear box	LSB	Large shear box
	p	Peak value	r	Residual value
	RS	Ring shear		

Summary of Laboratory Soil Re-Use Test

MCV	s	MCV value at natural or specified moisture content	int	Intercept of calibration line in MCV calibration
-----	---	--	-----	--

Summary of Laboratory Rock Strength Tests

Point Load	Type	D	Diametral	A	Axial
(Combination of)		I	Irregular lump	B	Block
		L	Test performed parallel to planes of weakness		
		P	Test performed perpendicular to planes of weakness		
		X	Invalid failure of point load (not broken between points of load application)		

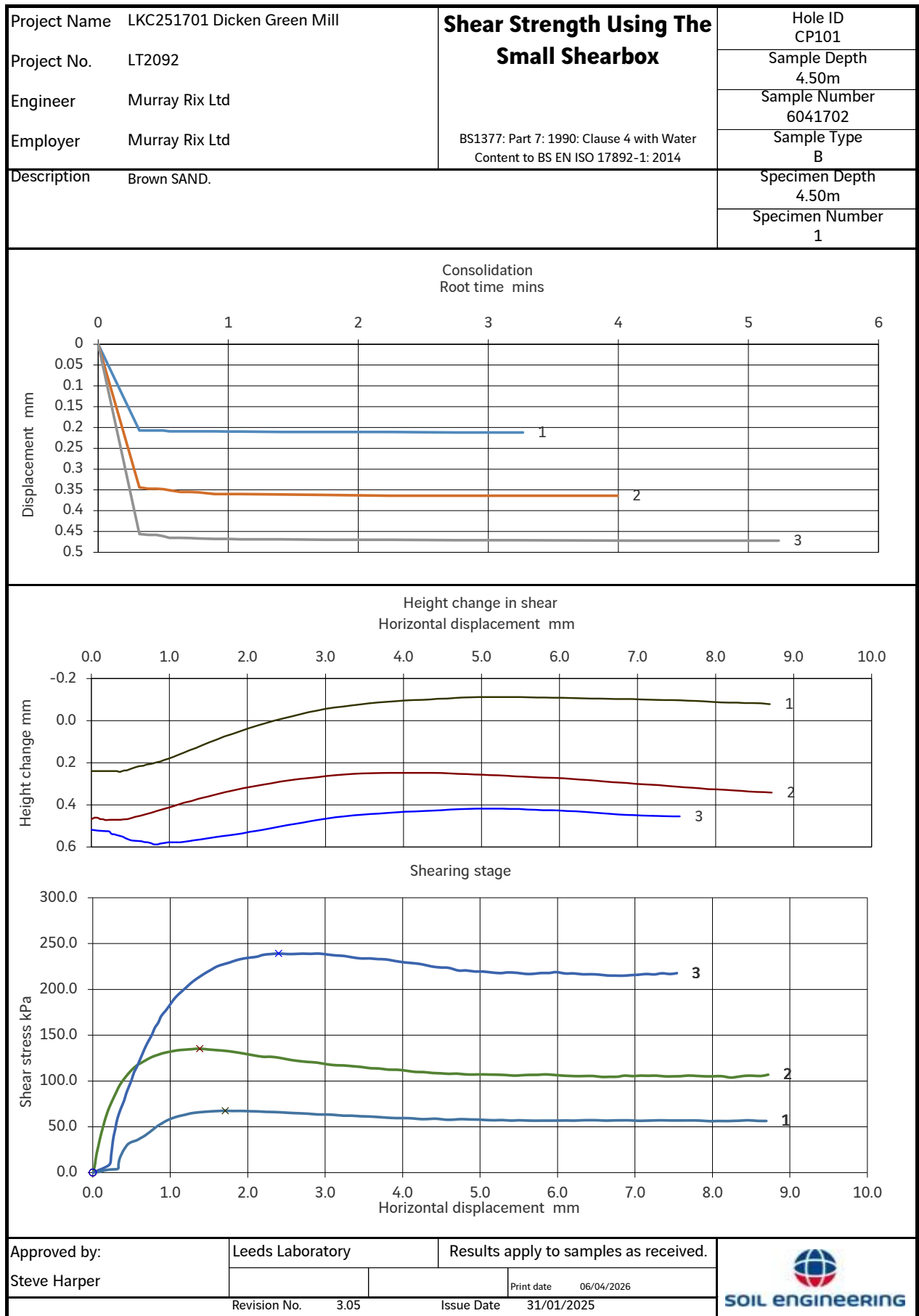
Summary of Laboratory Rock Materials Tests

Ten% fines	w	Soaked test	d	Dry test
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Point Load Index Result

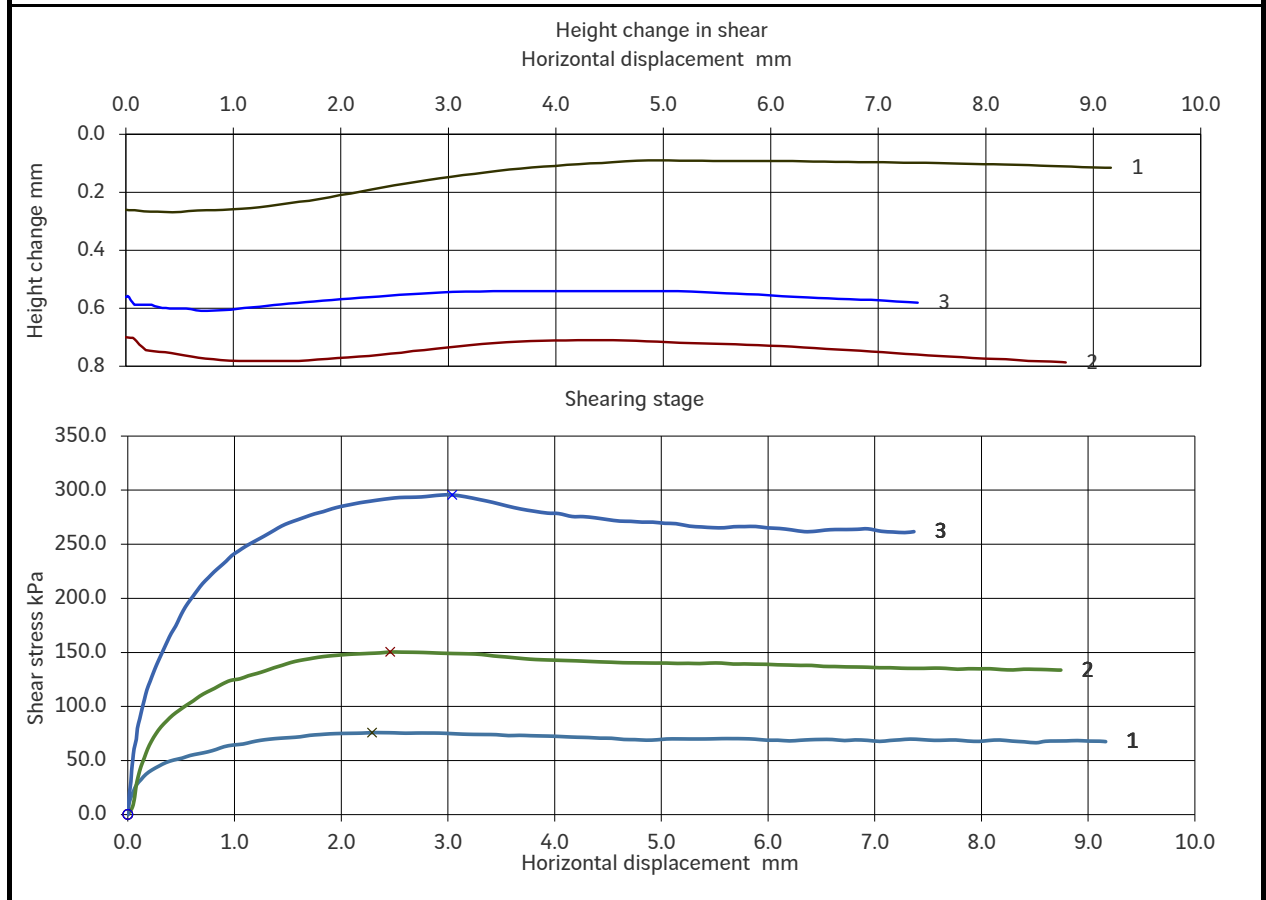
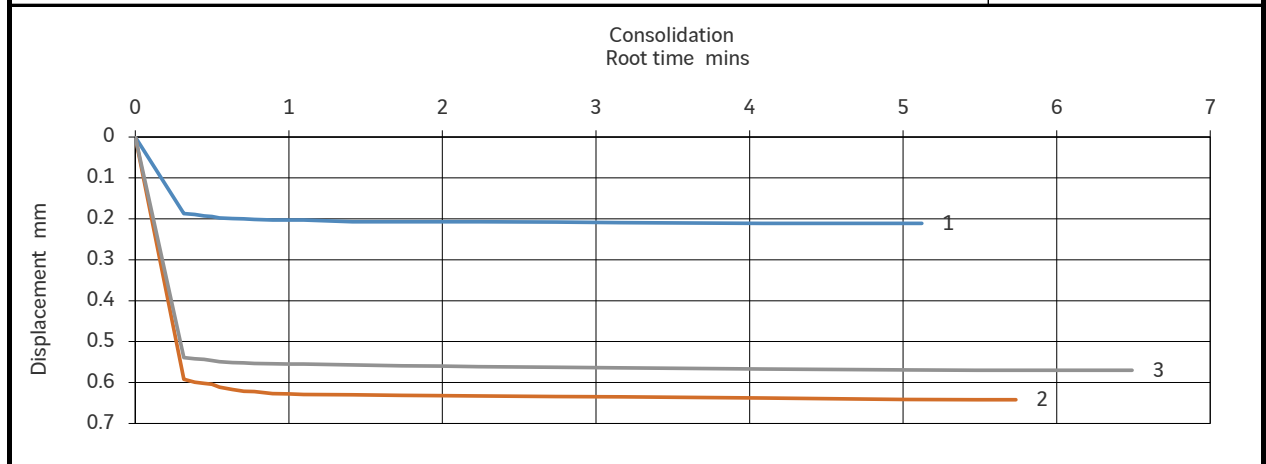
Point Load	Type	D	Diametral	A	Axial
(Combination of)		I	Irregular lump	B	Block
		L	Parallel to planes of weakness	P	Perpendicular to planes of weakness
		X	Invalid failure of point load (not broken between points of load application)		
Dimensions		W	Diameter of core or average smallest width perpendicular to axis of loading in a block or irregular lump		
		D	Distance between platens when just in contact with specimen		
		D'	Distance between platens at point of failure		
		De	Equivalent core diameter	Is	P/De^2
		Is(50)	$F \times Is$	F	$(De/50)^{0.45}$
		Is(50) point load strength index corrected for a diametral test of core diameter 50mm			
		For Axial/Lump tests $De^2 = (4/\pi) \times (W \times D')$		For Diametral tests $De^2 = D \times D'$	

Important note: summary sheets are provided for convenience and in no way replace individual test result sheets which shall, without exception, be regarded as the definitive result.



Project Name LKC251701 Dicken Green Mill Project No. LT2092 Engineer Murray Rix Ltd Employer Murray Rix Ltd		Shear Strength Using The Small Shearbox BS1377: Part 7: 1990: Clause 4 with Water Content to BS EN ISO 17892-1: 2014		Hole ID CP101 Sample Depth 4.50m Sample Number 6041702 Sample Type B																																																																																									
Description Brown SAND.				Specimen Depth 4.50m Specimen Number 1																																																																																									
Coulomb envelope																																																																																													
Peak c' 15 kPa ϕ' 32																																																																																													
x Peak shear strength o Residual shear strength																																																																																													
Test run number Vertical stress at failure Particle density Assumed Trimmings moisture content Water content of specimen before test Water content of specimen after test Specimen dimensions Side 1 Side 2 Height Initial bulk density Initial dry density Initial saturation Initial voids ratio Voids ratio after consolidation Voids ratio after shear Rate of displacement Failure criterion Displacement at failure Shear strength at failure Displacement at residual Shear strength at residual Final displacement Method of reversal Remarks Specimen lightly tamped into shearbox. Deviations from test method: None		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>Vertical stress at failure kPa</td> <td>90.8</td> <td>179.8</td> <td>360.5</td> </tr> <tr> <td>Particle density Mg/m³</td> <td>2.65</td> <td>2.65</td> <td>2.65</td> </tr> <tr> <td>Trimmings moisture content %</td> <td>17.9</td> <td>17.9</td> <td>17.9</td> </tr> <tr> <td>Water content of specimen before test %</td> <td>18.9</td> <td>20.5</td> <td>21.0</td> </tr> <tr> <td>Water content of specimen after test %</td> <td>17.6</td> <td>17.1</td> <td>16.9</td> </tr> <tr> <td>Side 1 mm</td> <td>60.05</td> <td>60.10</td> <td>60.14</td> </tr> <tr> <td>Side 2 mm</td> <td>60.06</td> <td>60.06</td> <td>60.10</td> </tr> <tr> <td>Height mm</td> <td>22.07</td> <td>21.81</td> <td>22.07</td> </tr> <tr> <td>Initial bulk density Mg/m³</td> <td>1.95</td> <td>1.98</td> <td>1.95</td> </tr> <tr> <td>Initial dry density Mg/m³</td> <td>1.64</td> <td>1.64</td> <td>1.61</td> </tr> <tr> <td>Initial saturation %</td> <td>81.5</td> <td>88.3</td> <td>86.6</td> </tr> <tr> <td>Initial voids ratio</td> <td>0.62</td> <td>0.62</td> <td>0.64</td> </tr> <tr> <td>Voids ratio after consolidation</td> <td>0.60</td> <td>0.59</td> <td>0.61</td> </tr> <tr> <td>Voids ratio after shear</td> <td>0.62</td> <td>0.59</td> <td>0.61</td> </tr> <tr> <td>Rate of displacement mm/min</td> <td>0.900</td> <td>0.900</td> <td>0.900</td> </tr> <tr> <td>Failure criterion</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Displacement at failure mm</td> <td>1.7</td> <td>1.4</td> <td>2.4</td> </tr> <tr> <td>Shear strength at failure kPa</td> <td>67.5</td> <td>135.3</td> <td>239.1</td> </tr> <tr> <td>Displacement at residual mm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Shear strength at residual kPa</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final displacement mm</td> <td>8.7</td> <td>8.7</td> <td>7.5</td> </tr> </tbody> </table>					1	2	3	Vertical stress at failure kPa	90.8	179.8	360.5	Particle density Mg/m ³	2.65	2.65	2.65	Trimmings moisture content %	17.9	17.9	17.9	Water content of specimen before test %	18.9	20.5	21.0	Water content of specimen after test %	17.6	17.1	16.9	Side 1 mm	60.05	60.10	60.14	Side 2 mm	60.06	60.06	60.10	Height mm	22.07	21.81	22.07	Initial bulk density Mg/m ³	1.95	1.98	1.95	Initial dry density Mg/m ³	1.64	1.64	1.61	Initial saturation %	81.5	88.3	86.6	Initial voids ratio	0.62	0.62	0.64	Voids ratio after consolidation	0.60	0.59	0.61	Voids ratio after shear	0.62	0.59	0.61	Rate of displacement mm/min	0.900	0.900	0.900	Failure criterion				Displacement at failure mm	1.7	1.4	2.4	Shear strength at failure kPa	67.5	135.3	239.1	Displacement at residual mm				Shear strength at residual kPa				Final displacement mm	8.7	8.7	7.5
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		Revision No. 3.05																																																																																											

Project Name	LKC251701 Dicken Green Mill	Shear Strength Using The Small Shearbox BS1377: Part 7: 1990: Clause 4 with Water Content to BS EN ISO 17892-1: 2014	Hole ID CP102
Project No.	LT2092		Sample Depth 5.50m
Engineer	Murray Rix Ltd		Sample Number 6041704
Employer	Murray Rix Ltd		Sample Type B
Description	Brown SAND.	Specimen Depth 5.50m	
		Specimen Number 1	



Approved by:	Leeds Laboratory	Results apply to samples as received.	
Steve Harper		Print date 06/04/2026	
Revision No. 3.05	Issue Date 31/01/2025		

Project Name LKC251701 Dicken Green Mill Project No. LT2092 Engineer Murray Rix Ltd Employer Murray Rix Ltd	Shear Strength Using The Small Shearbox BS1377: Part 7: 1990: Clause 4 with Water Content to BS EN ISO 17892-1: 2014	Hole ID CP102 Sample Depth 5.50m Sample Number 6041704 Sample Type B
Description Brown SAND.		Specimen Depth 5.50m Specimen Number 1

Coulomb envelope

Peak

c' 3 kPa

φ' 33.5 °

× Peak shear strength ○ Residual shear strength

		1	2	3
Test run number		1	2	3
Vertical stress at failure	kPa	109.7	220.3	440.8
Particle density	Assumed Mg/m³	2.65	2.65	2.65
Trimmings moisture content	%	24.5	24.5	24.5
Water content of specimen before test	%	28.7	28.0	30.3
Water content of specimen after test	%	22.1	22.0	21.8
Specimen dimensions				
Side 1	mm	60.05	60.10	60.14
Side 2	mm	60.06	60.06	60.10
Height	mm	23.20	23.27	23.00
Initial bulk density	Mg/m³	1.98	1.97	1.99
Initial dry density	Mg/m³	1.54	1.54	1.53
Initial saturation	%	105.4	102.5	109.8
Initial voids ratio		0.72	0.72	0.73
Voids ratio after consolidation		0.71	0.68	0.69
Voids ratio after shear		0.71	0.67	0.69
Rate of displacement	mm/min	0.900	0.900	0.900
Failure criterion	Peak horizontal stress			
Displacement at failure	mm	2.3	2.5	3.0
Shear strength at failure	kPa	75.8	150.3	295.6
Displacement at residual	mm			
Shear strength at residual	kPa			
Final displacement	mm	9.2	8.7	7.4
Method of reversal		Peak only		

Remarks Specimen tested submerged.
 Specimen lightly tamped into shearbox.

Deviations from test method: None

Approved by: Steve Harper	Leeds Laboratory	Results apply to samples as received.	
	Revision No. 3.05	Issue Date 31/01/2025	

TEST REPORT

Client LK Consult Ltd

Address Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract LKC 25 1701, Dicken Green Mill, Rochdale

Job Number MRN 26004/27
Date of Issue 09 April 2026
Page 1 of 17

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

Murray Rix is the trading name of Murray Rix (Northern) Limited. Registered in England 2878361

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

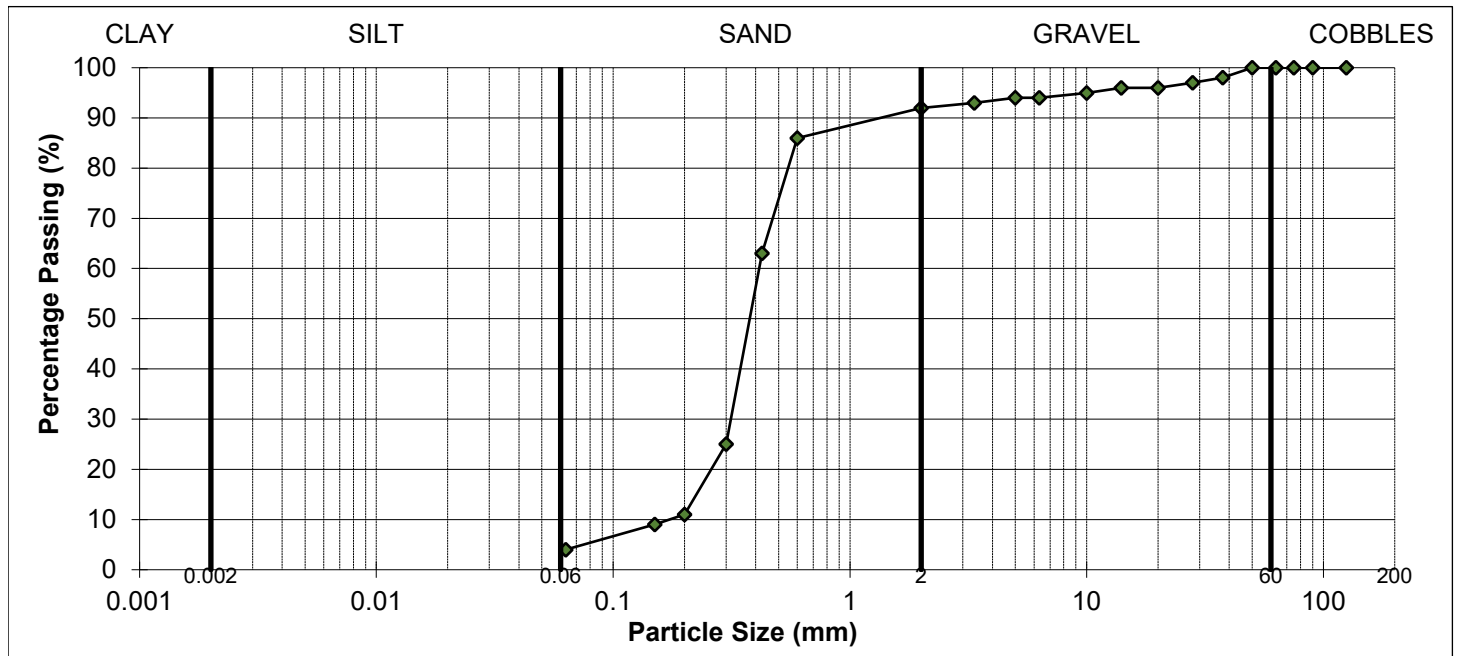


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	CP101 1.65-2.0m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041701	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	25.1

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	94	
90	100		5	94	
75	100		3.35	93	
63	100		2	92	
50	100		0.6	86	
37.5	98		0.425	63	
28	97		0.3	25	
20	96		0.2	11	
14	96		0.15	9	
10	95		0.063	4	



SOIL FRACTIONS			
COBBLES	0	SAND	88%
GRAVEL	8%	SILT / CLAY	4%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

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PARTICLE SIZE DISTRIBUTION

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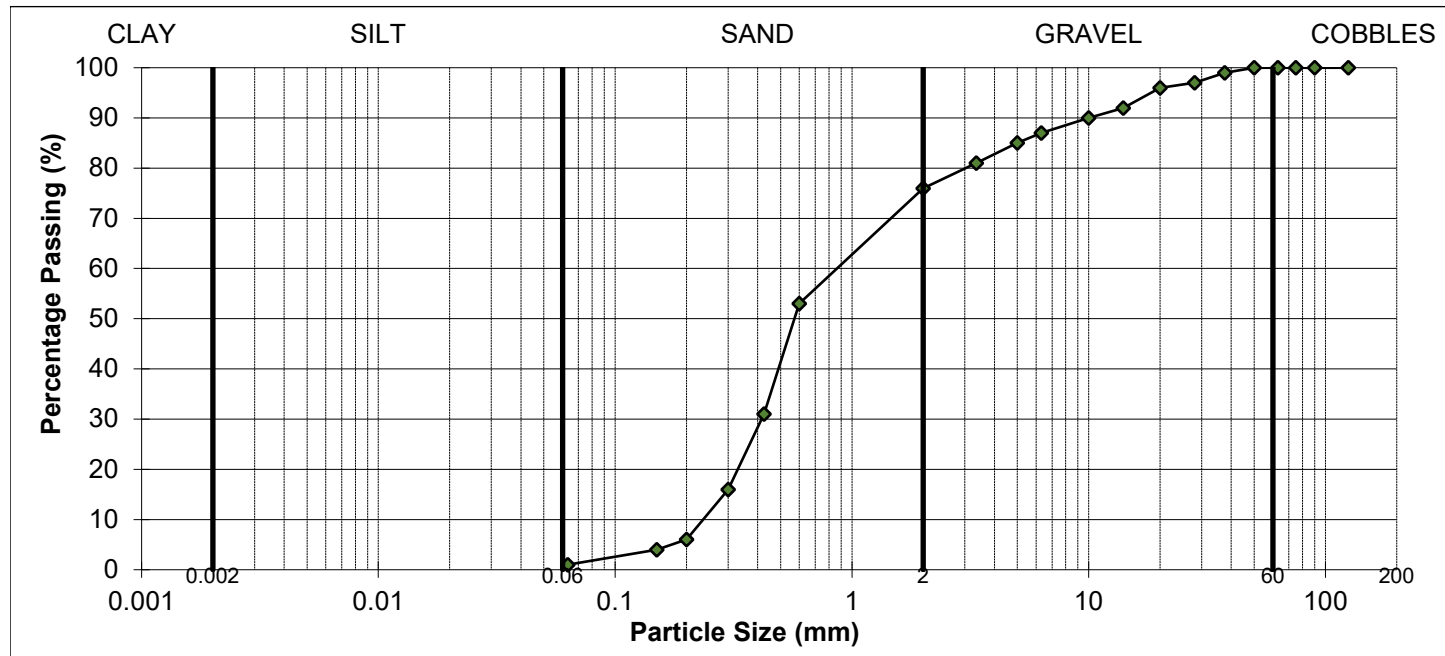


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	CP102 4.5-5.0m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041703	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	17.2

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	87	
90	100		5	85	
75	100		3.35	81	
63	100		2	76	
50	100		0.6	53	
37.5	99		0.425	31	
28	97		0.3	16	
20	96		0.2	6	
14	92		0.15	4	
10	90		0.063	1	



SOIL FRACTIONS			
COBBLES	0	SAND	75%
GRAVEL	24%	SILT / CLAY	1%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

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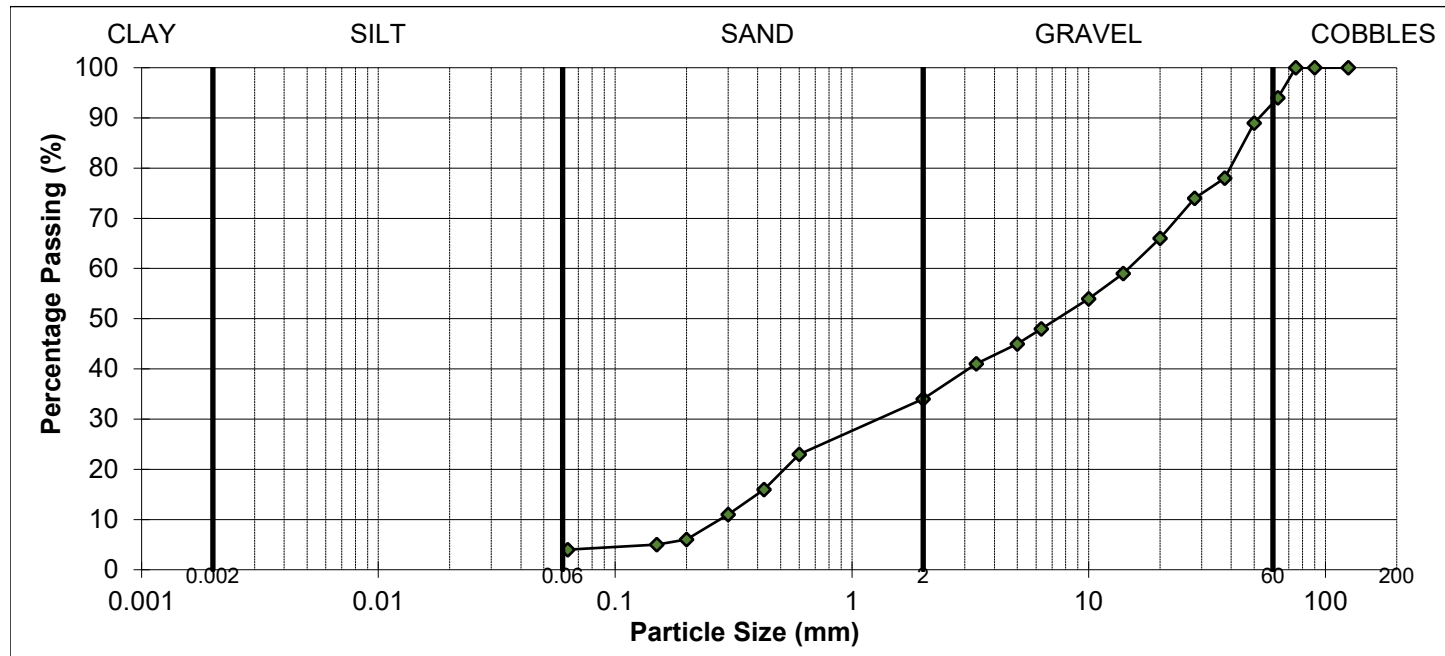


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	TP101 0.3-1.0m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041705	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very sandy GRAVEL		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	6.1

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	48	
90	100		5	45	
75	100		3.35	41	
63	94		2	34	
50	89		0.6	23	
37.5	78		0.425	16	
28	74		0.3	11	
20	66		0.2	6	
14	59		0.15	5	
10	54		0.063	4	



SOIL FRACTIONS			
COBBLES	6%	SAND	30%
GRAVEL	60%	SILT / CLAY	4%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

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PARTICLE SIZE DISTRIBUTION

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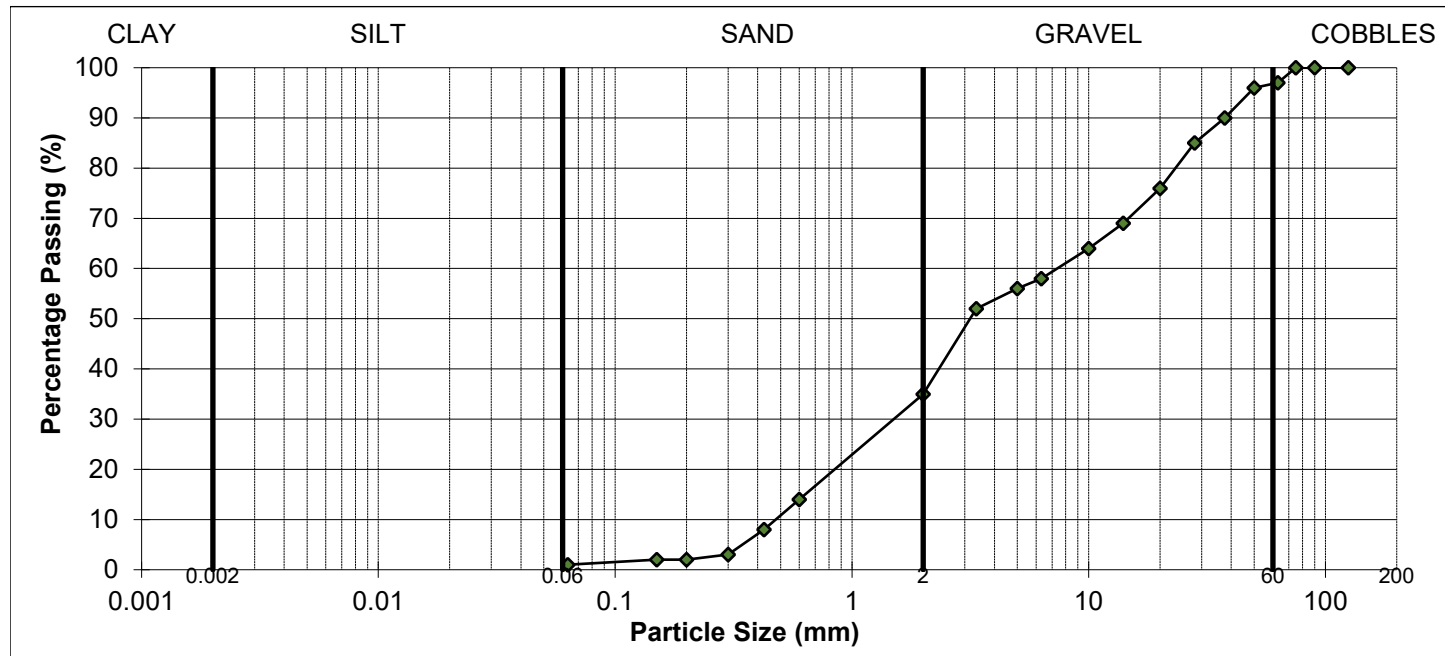


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	TP102 0.5-1.5m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041706	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very sandy GRAVEL		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	4.0

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	58	
90	100		5	56	
75	100		3.35	52	
63	97		2	35	
50	96		0.6	14	
37.5	90		0.425	8	
28	85		0.3	3	
20	76		0.2	2	
14	69		0.15	2	
10	64		0.063	1	



SOIL FRACTIONS			
COBBLES	3%	SAND	34%
GRAVEL	62%	SILT / CLAY	1%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

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PARTICLE SIZE DISTRIBUTION

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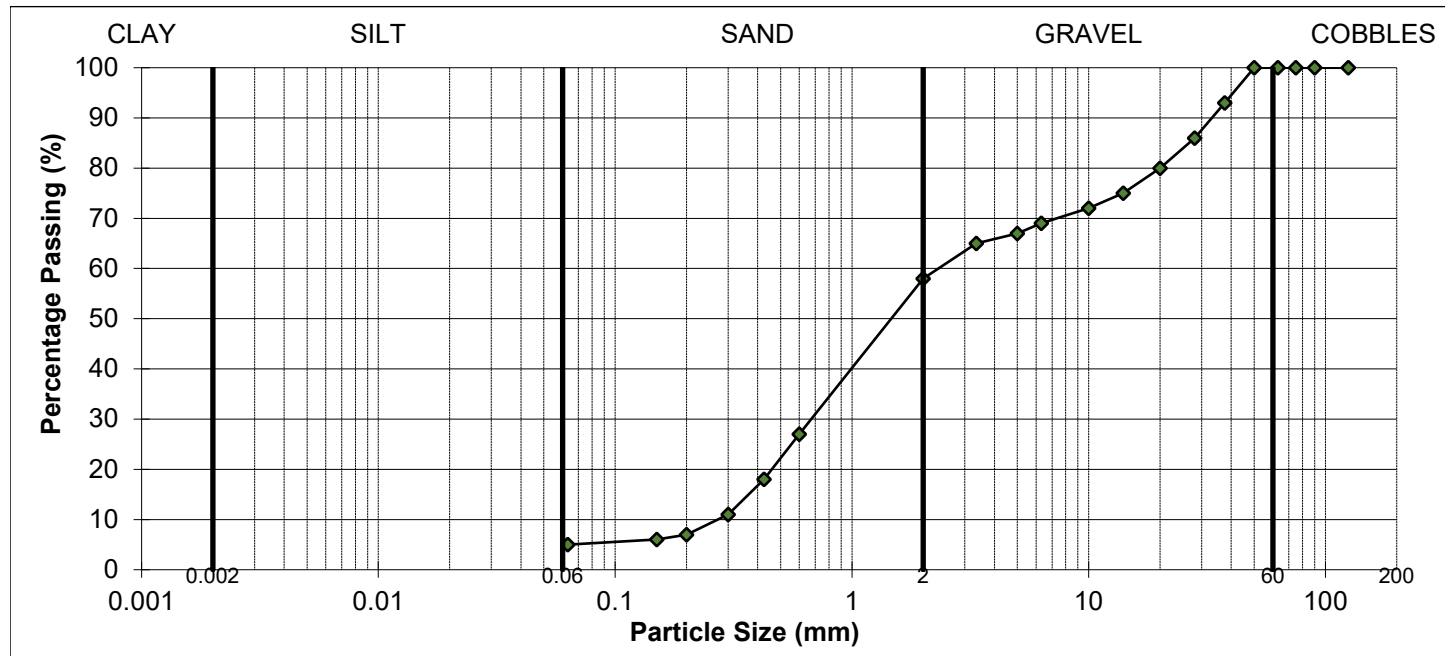


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	TP103 0.8-2.6m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041707	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty SAND & GRAVEL		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	7.2

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	69	
90	100		5	67	
75	100		3.35	65	
63	100		2	58	
50	100		0.6	27	
37.5	93		0.425	18	
28	86		0.3	11	
20	80		0.2	7	
14	75		0.15	6	
10	72		0.063	5	



SOIL FRACTIONS			
COBBLES	0	SAND	53%
GRAVEL	42%	SILT / CLAY	5%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
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DATE

09-Apr-26

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PARTICLE SIZE DISTRIBUTION

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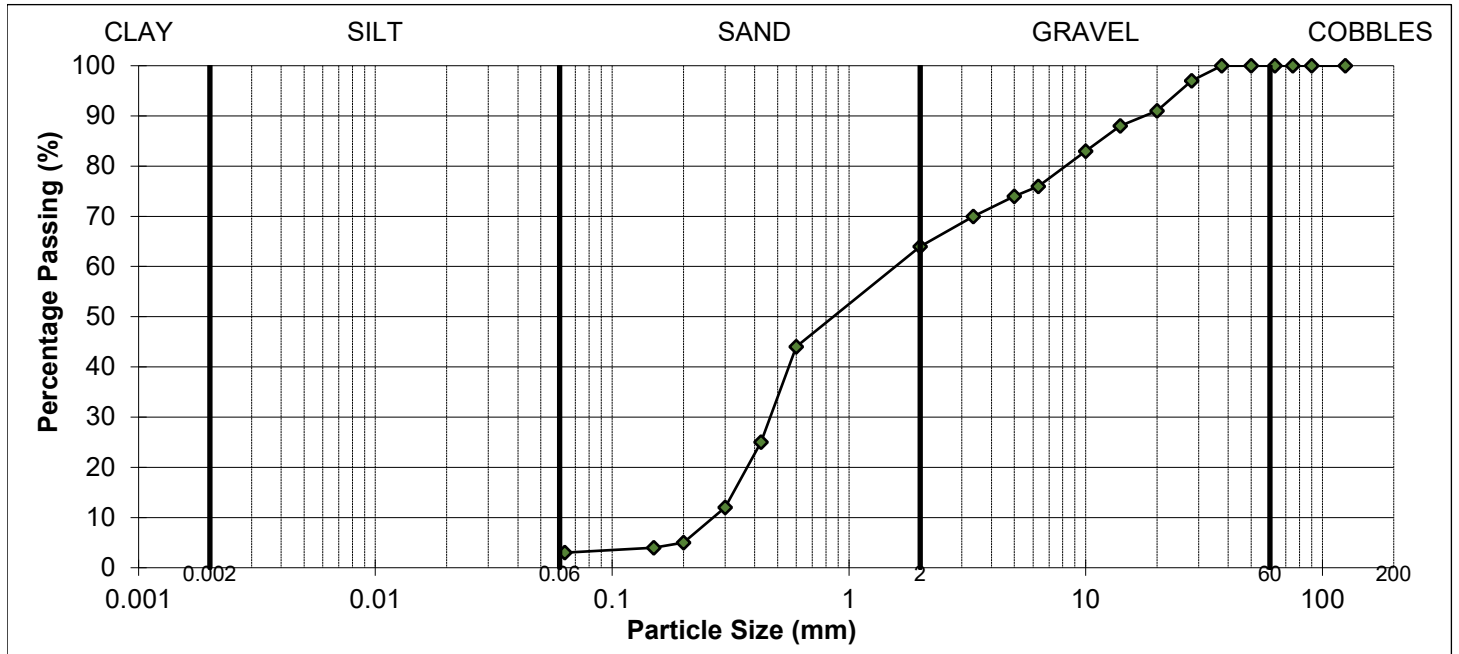


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	TP105 1.5-2.1m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041708	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	6.1

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	76	
90	100		5	74	
75	100		3.35	70	
63	100		2	64	
50	100		0.6	44	
37.5	100		0.425	25	
28	97		0.3	12	
20	91		0.2	5	
14	88		0.15	4	
10	83		0.063	3	



SOIL FRACTIONS			
COBBLES	0	SAND	61%
GRAVEL	36%	SILT / CLAY	3%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
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DATE

09-Apr-26

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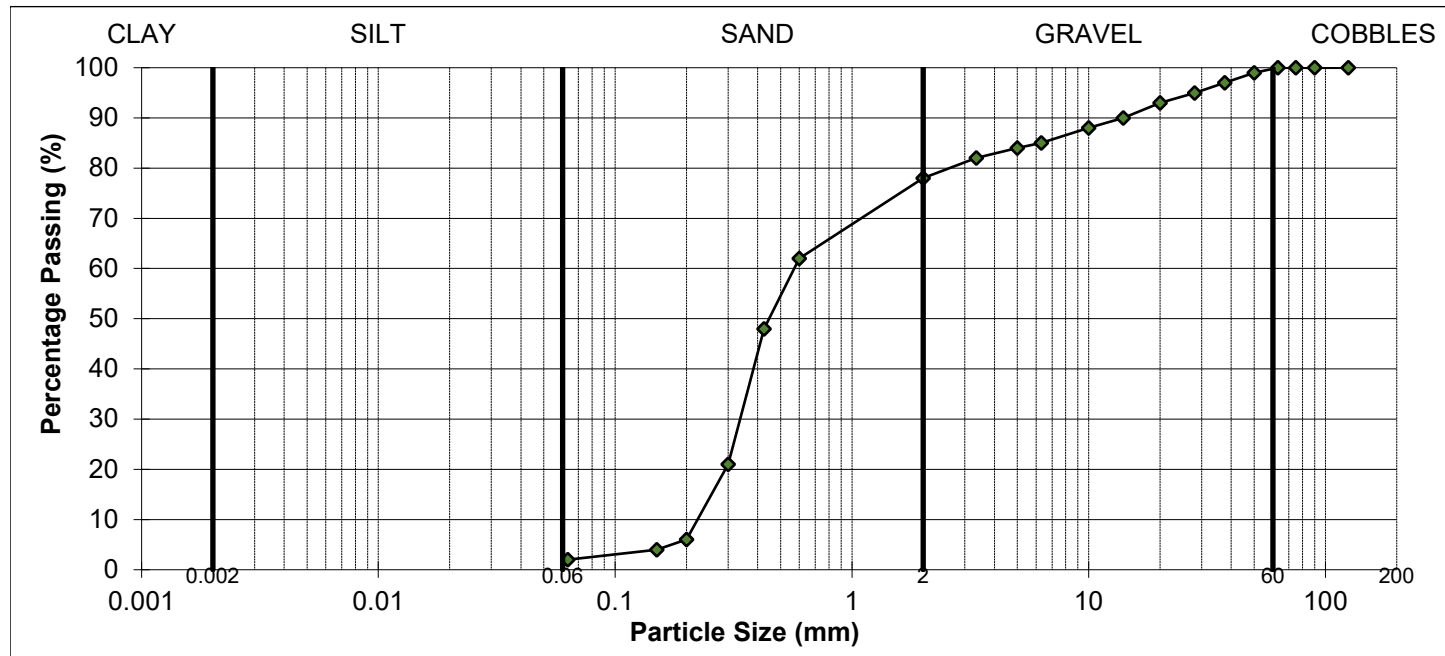


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	TP106 2.0-2.4m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041709	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	6.9

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	85	
90	100		5	84	
75	100		3.35	82	
63	100		2	78	
50	99		0.6	62	
37.5	97		0.425	48	
28	95		0.3	21	
20	93		0.2	6	
14	90		0.15	4	
10	88		0.063	2	



SOIL FRACTIONS			
COBBLES	0	SAND	76%
GRAVEL	22%	SILT / CLAY	2%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

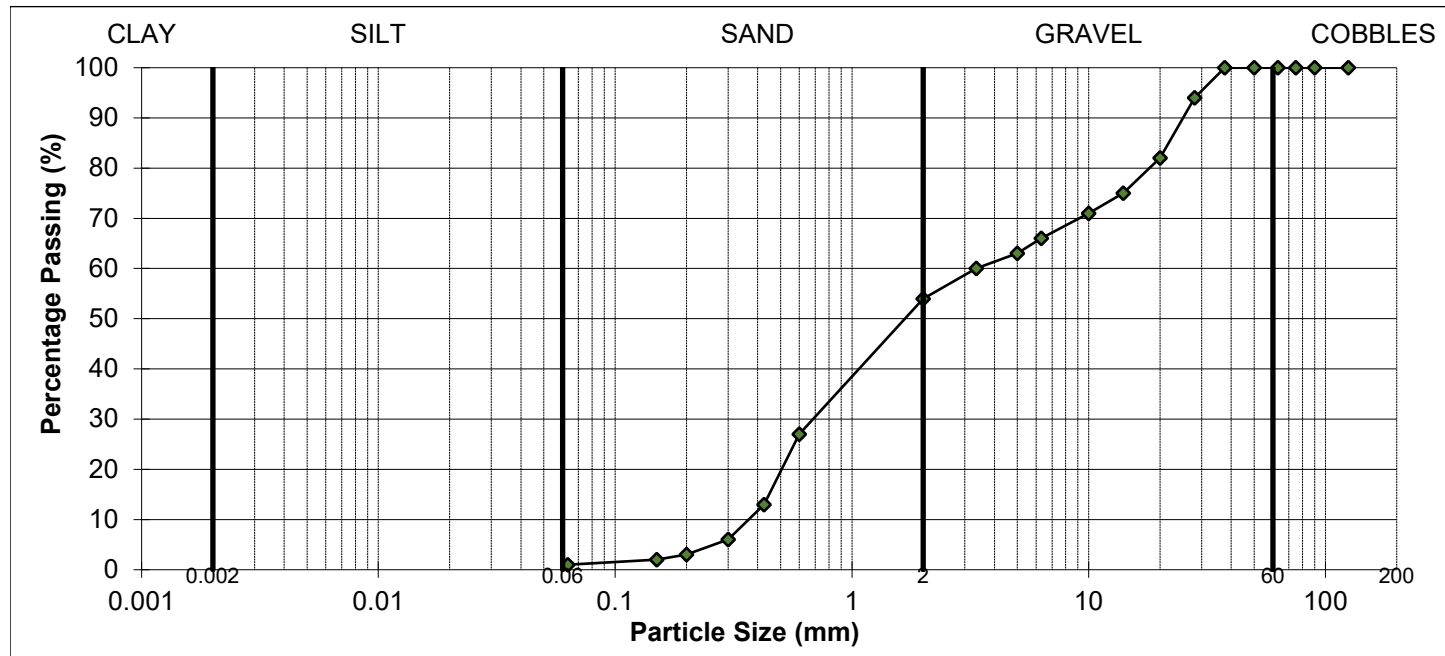


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	TP107 0.8-1.5m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041710	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty SAND & GRAVEL		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	6.5

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	66	
90	100		5	63	
75	100		3.35	60	
63	100		2	54	
50	100		0.6	27	
37.5	100		0.425	13	
28	94		0.3	6	
20	82		0.2	3	
14	75		0.15	2	
10	71		0.063	1	



SOIL FRACTIONS			
COBBLES	0	SAND	53%
GRAVEL	46%	SILT / CLAY	1%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

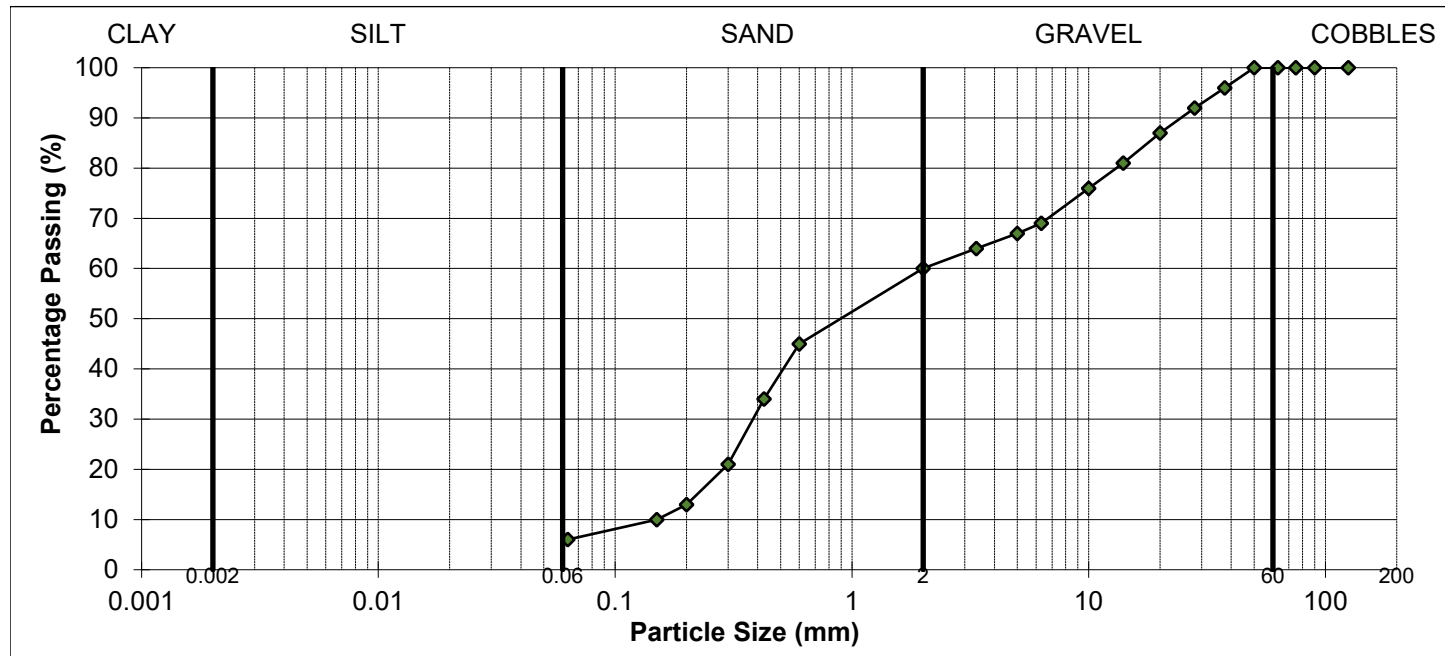


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS101 2.0-2.45m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041711	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	7.2

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	69	
90	100		5	67	
75	100		3.35	64	
63	100		2	60	
50	100		0.6	45	
37.5	96		0.425	34	
28	92		0.3	21	
20	87		0.2	13	
14	81		0.15	10	
10	76		0.063	6	



SOIL FRACTIONS			
COBBLES	0	SAND	54%
GRAVEL	40%	SILT / CLAY	6%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

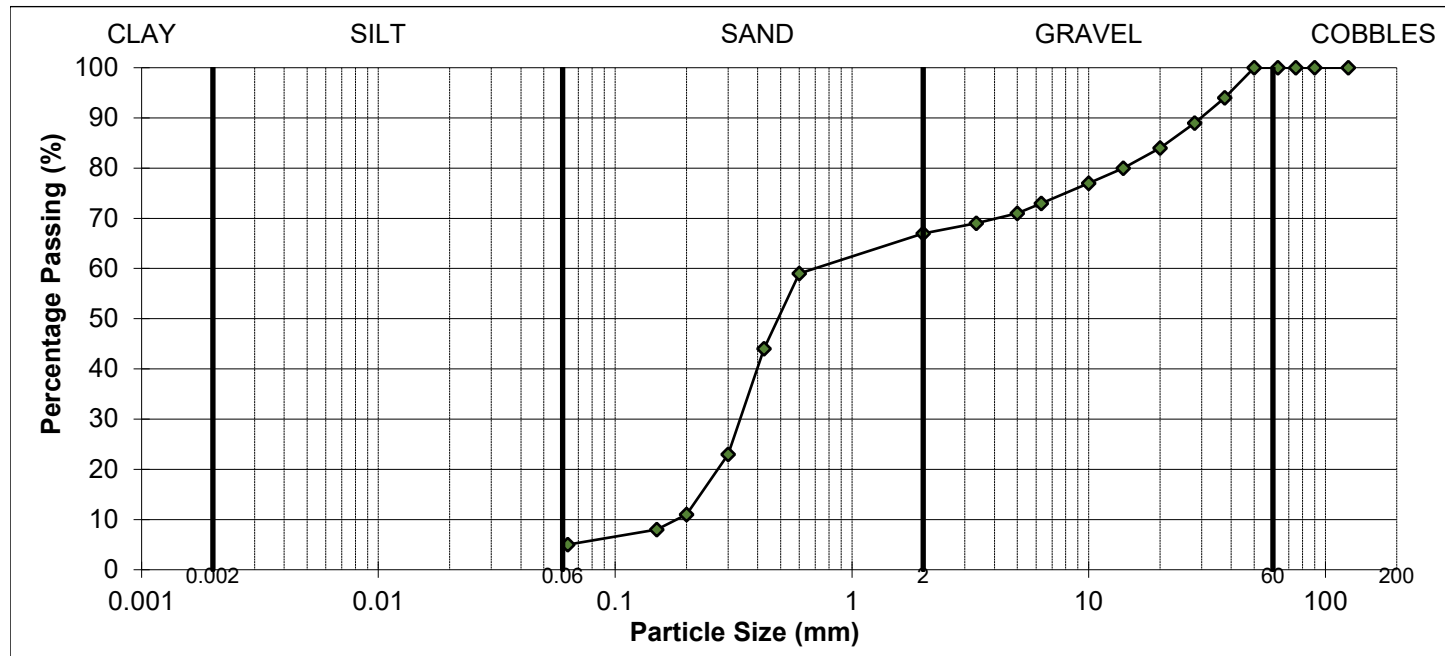


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS102 3.0-3.45m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041712	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	7.3

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	73	
90	100		5	71	
75	100		3.35	69	
63	100		2	67	
50	100		0.6	59	
37.5	94		0.425	44	
28	89		0.3	23	
20	84		0.2	11	
14	80		0.15	8	
10	77		0.063	5	



SOIL FRACTIONS			
COBBLES	0	SAND	62%
GRAVEL	33%	SILT / CLAY	5%

REMARKS

SIGNED

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PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

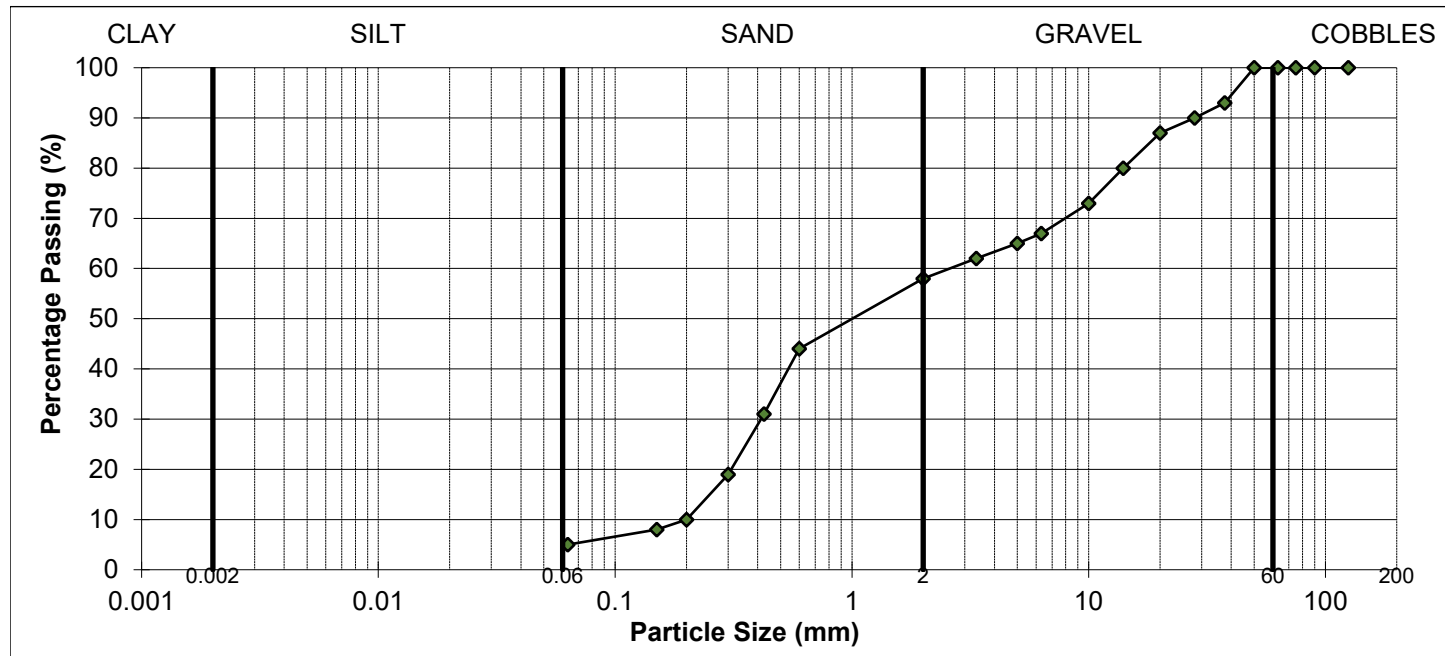


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS103 2.0-2.45m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041713	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty SAND & GRAVEL		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	5.8

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	67	
90	100		5	65	
75	100		3.35	62	
63	100		2	58	
50	100		0.6	44	
37.5	93		0.425	31	
28	90		0.3	19	
20	87		0.2	10	
14	80		0.15	8	
10	73		0.063	5	



SOIL FRACTIONS			
COBBLES	0	SAND	53%
GRAVEL	42%	SILT / CLAY	5%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

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DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

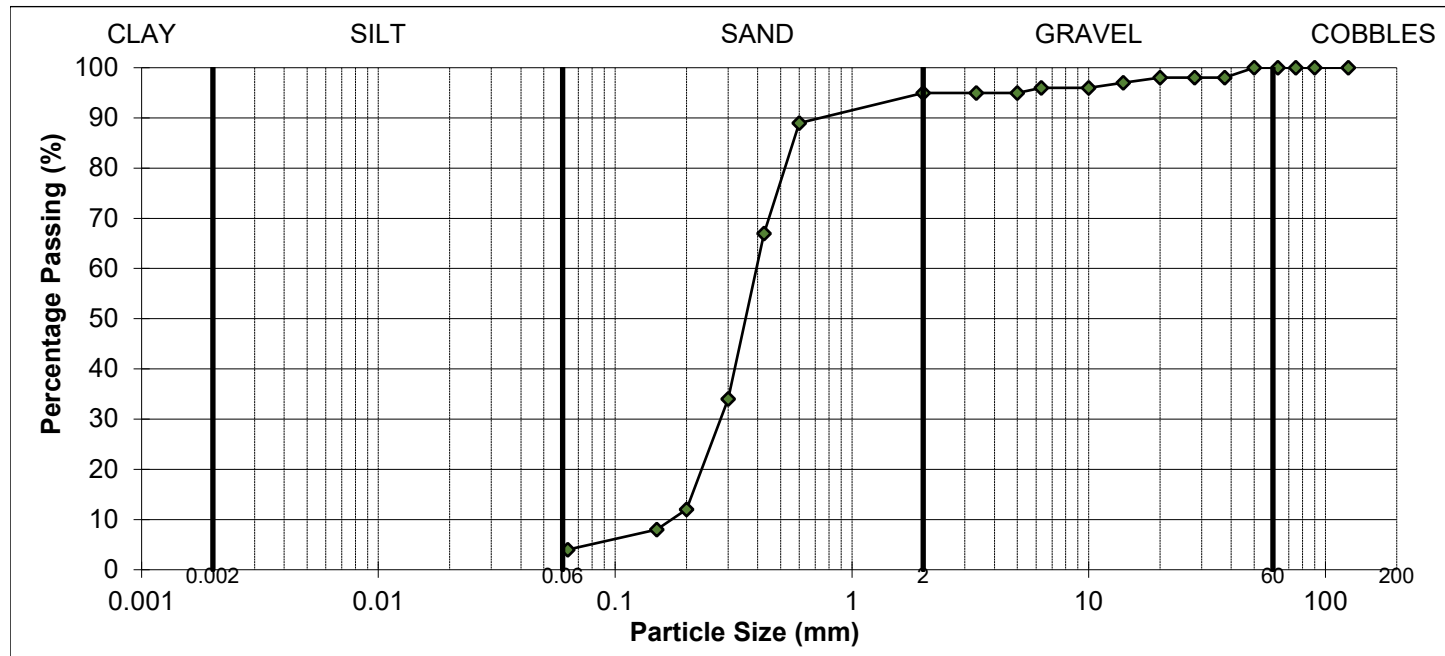


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS104 2.0-2.45m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041714	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	3.8

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	96	
90	100		5	95	
75	100		3.35	95	
63	100		2	95	
50	100		0.6	89	
37.5	98		0.425	67	
28	98		0.3	34	
20	98		0.2	12	
14	97		0.15	8	
10	96		0.063	4	



SOIL FRACTIONS			
COBBLES	0	SAND	91%
GRAVEL	5%	SILT / CLAY	4%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

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DUKINFIELD, CHESHIRE SK16 4QX

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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

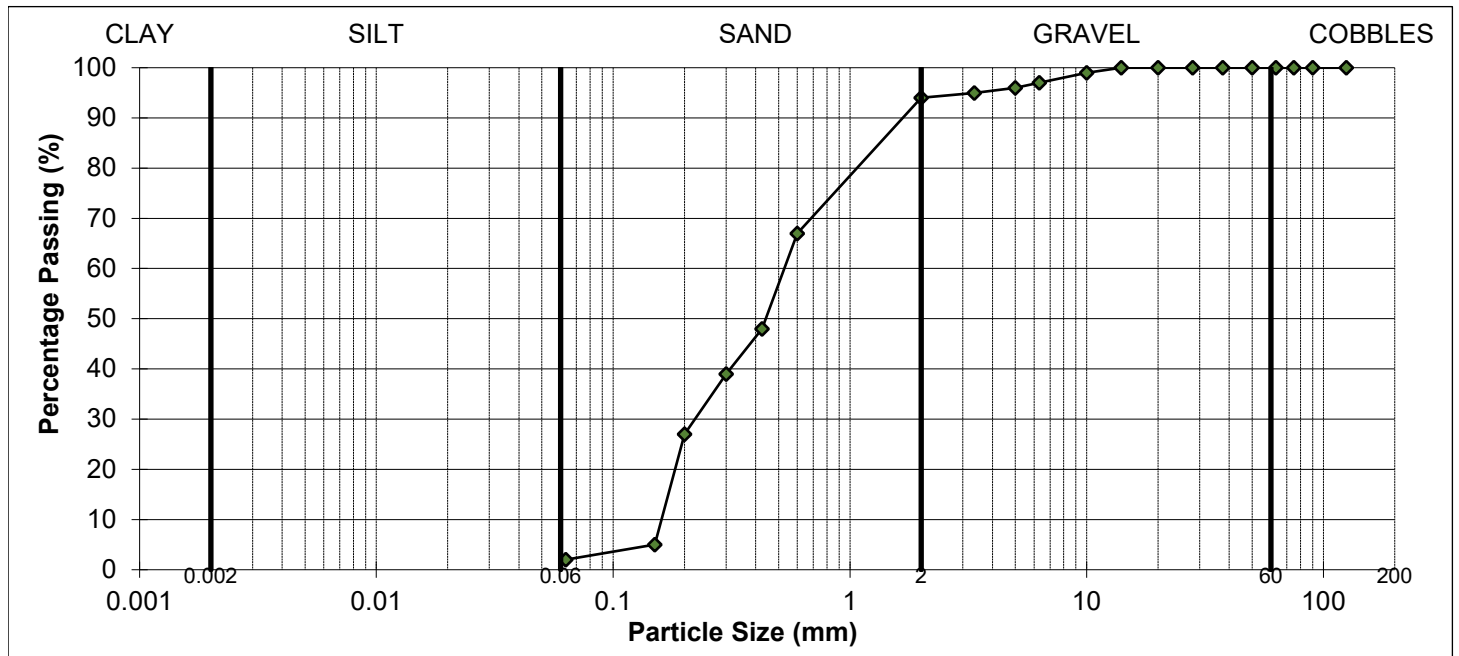


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS106 1.2-1.45m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041717	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	6.3

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	97	
90	100		5	96	
75	100		3.35	95	
63	100		2	94	
50	100		0.6	67	
37.5	100		0.425	48	
28	100		0.3	39	
20	100		0.2	27	
14	100		0.15	5	
10	99		0.063	2	



SOIL FRACTIONS			
COBBLES	0	SAND	92%
GRAVEL	6%	SILT / CLAY	2%

REMARKS

SIGNED

NAME

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DATE

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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

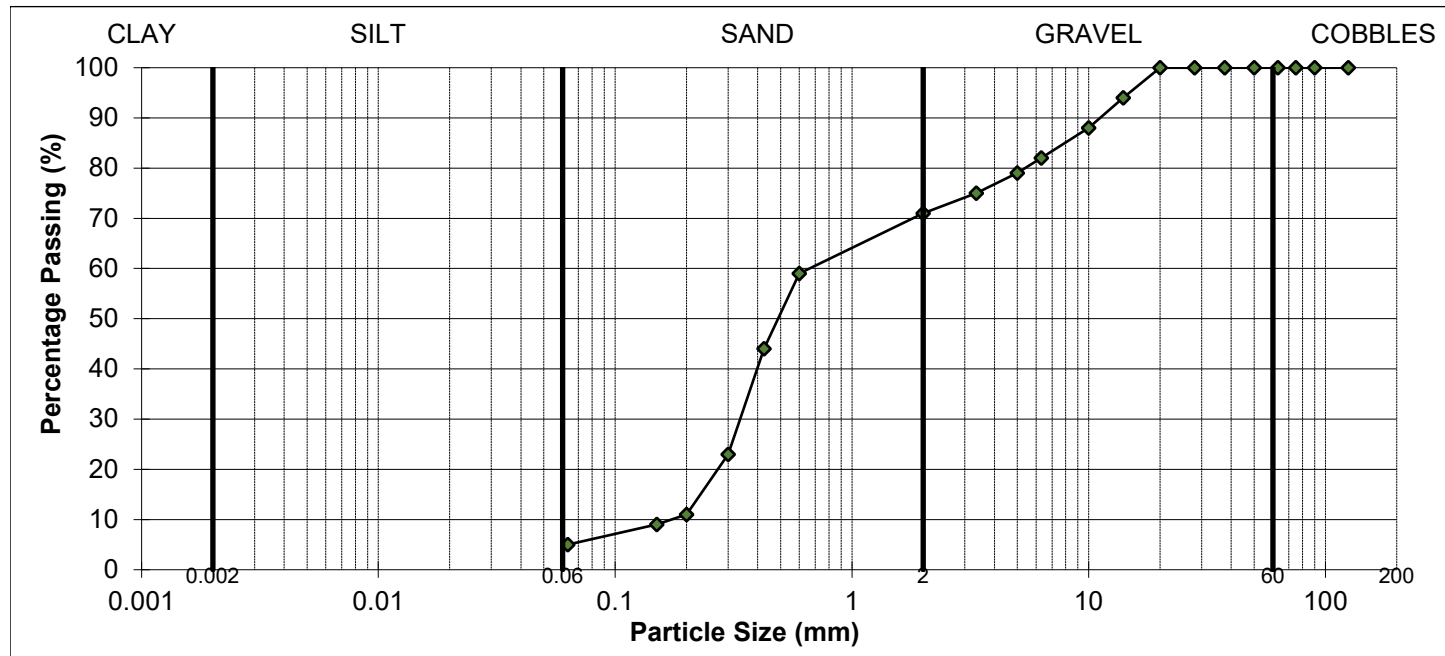


CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS108 3.0-3.45m	DATE SAMPLED	18-Feb-26
LAB SAMPLE No	6041718	DATE RECEIVED	02-Mar-26
DATE TESTED	09-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty very gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	AS RECEIVED WATER CONTENT (%)	6.0

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		6.3	82	
90	100		5	79	
75	100		3.35	75	
63	100		2	71	
50	100		0.6	59	
37.5	100		0.425	44	
28	100		0.3	23	
20	100		0.2	11	
14	94		0.15	9	
10	88		0.063	5	



SOIL FRACTIONS			
COBBLES	0	SAND	66%
GRAVEL	29%	SILT / CLAY	5%

REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX

TEL 0161 475 0870

TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A1:2021 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022



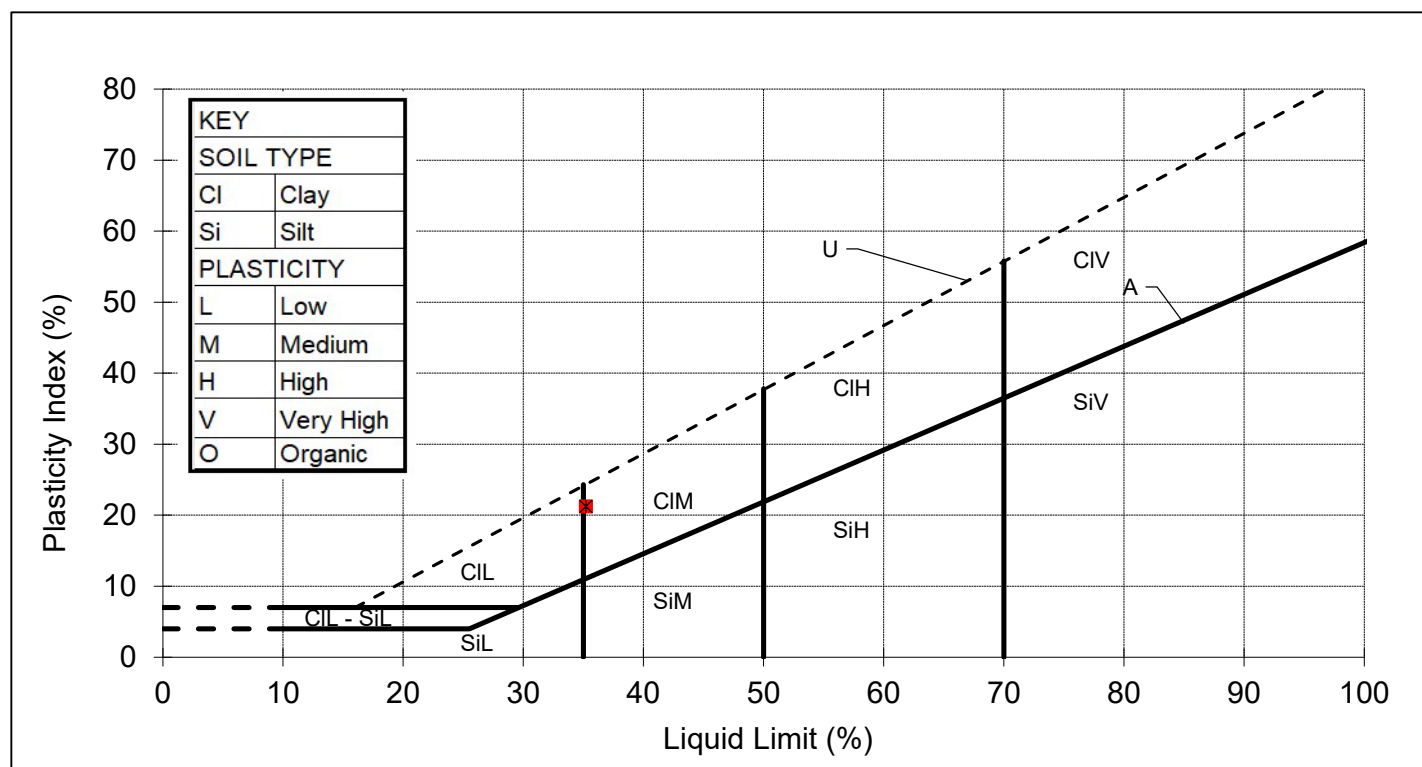
CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS105 1.2-1.45m	DATE SAMPLED	18-Feb-26
SAMPLE No.	6041715	DATE RECEIVED	02-Mar-26
DATE TESTED	16-Mar-26	SAMPLED BY	Client

MATERIAL	Orangey brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
PRE TREATMENT	As received	% RET. 425um BY	Wet sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.6	35.6	0.990	
Determination 2 (avg)	20.6	35.5		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
20.8	35	14	21	81



REMARKS

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DATE

09-Apr-26

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A1:2021 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

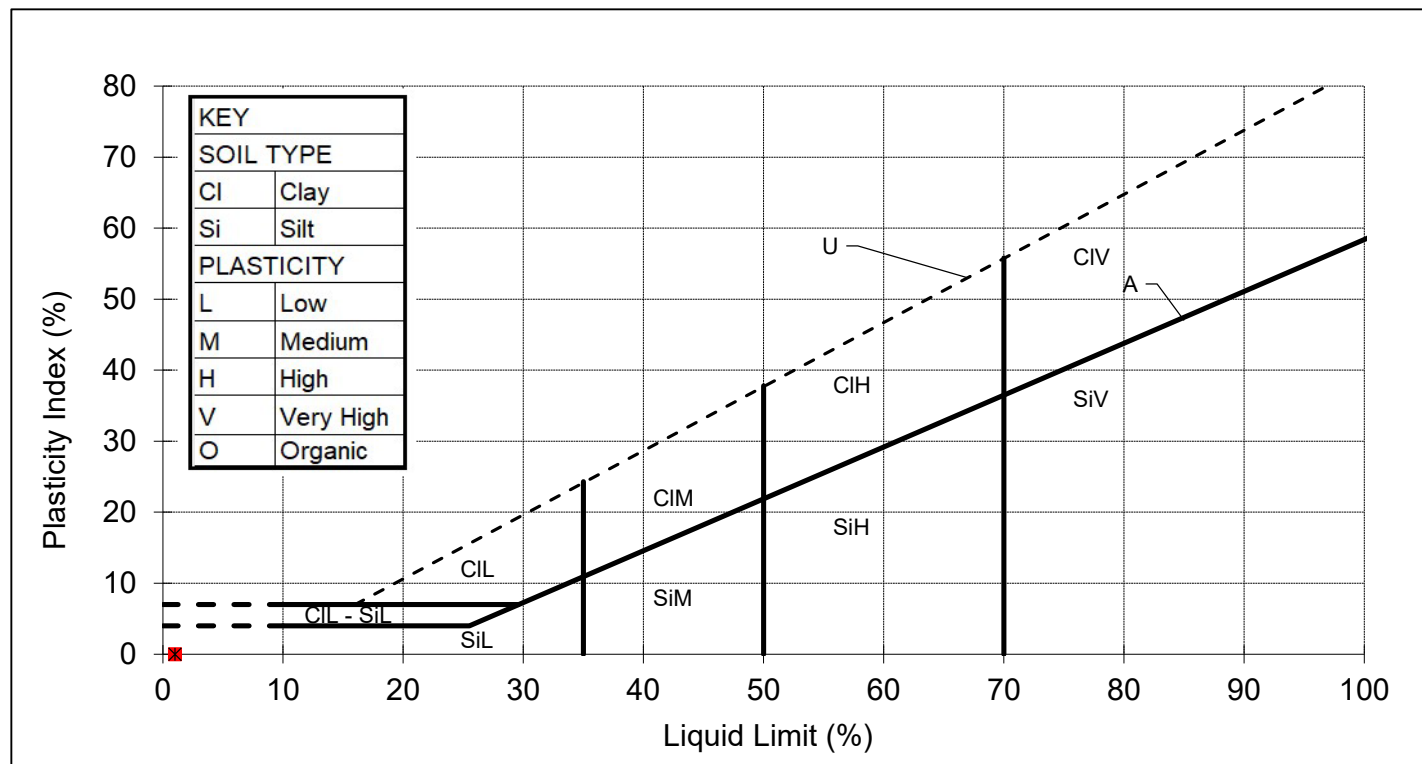
CLIENT	LK Consult Ltd
SITE	LKC 25 1701, Dicken Green Mill, Rochdale
JOB NUMBER	MRN 26004/27

SAMPLE LABEL	WS105 3.7-4.14m	DATE SAMPLED	18-Feb-26
SAMPLE No.	6041716	DATE RECEIVED	02-Mar-26
DATE TESTED	16-Mar-26	SAMPLED BY	Client

MATERIAL	Brown slightly silty gravelly SAND		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
PRE TREATMENT	As received	% RET. 425um BY	Wet sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	N/A	N/A	N/A	
Determination 2 (avg)	N/A	N/A		

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
5.8	N/A	Non Plastic	N/A	77



REMARKS

SIGNED

NAME

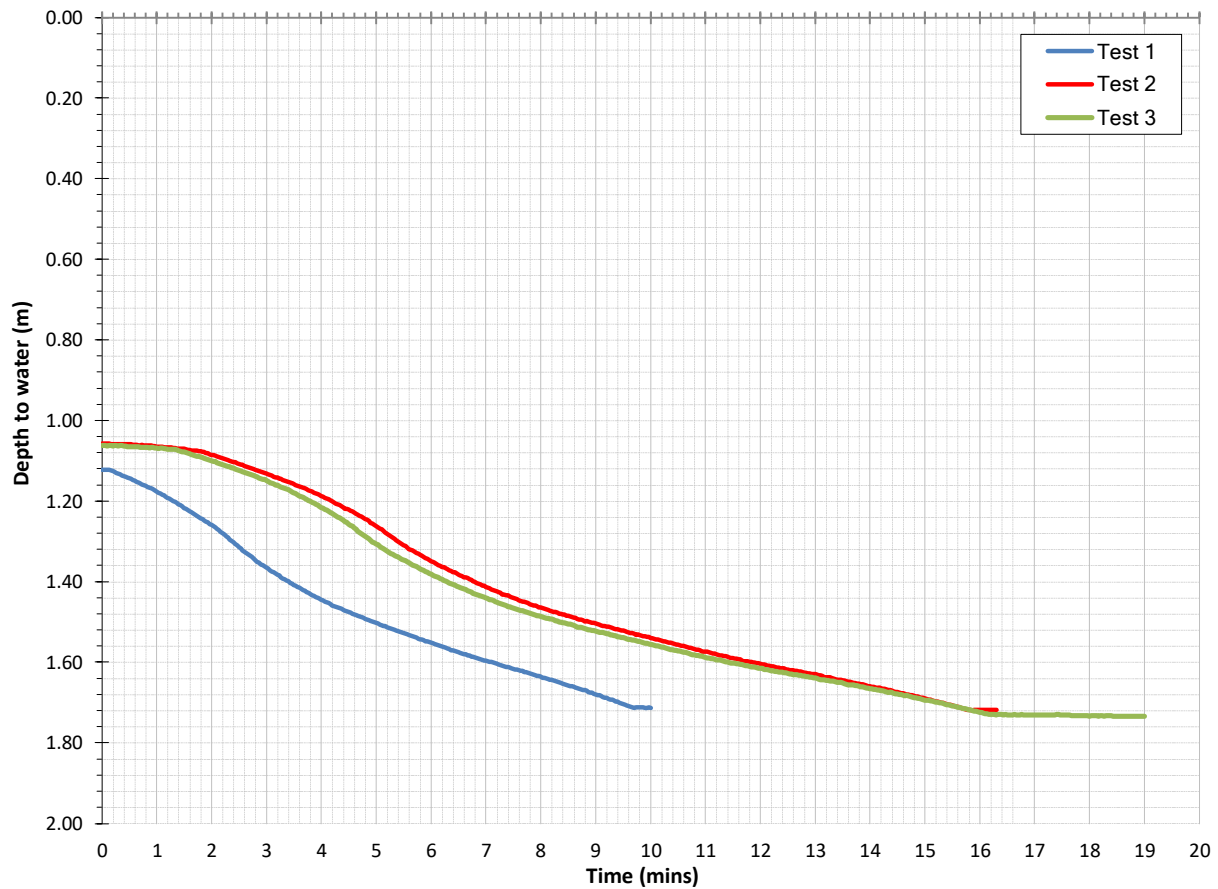
O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

09-Apr-26

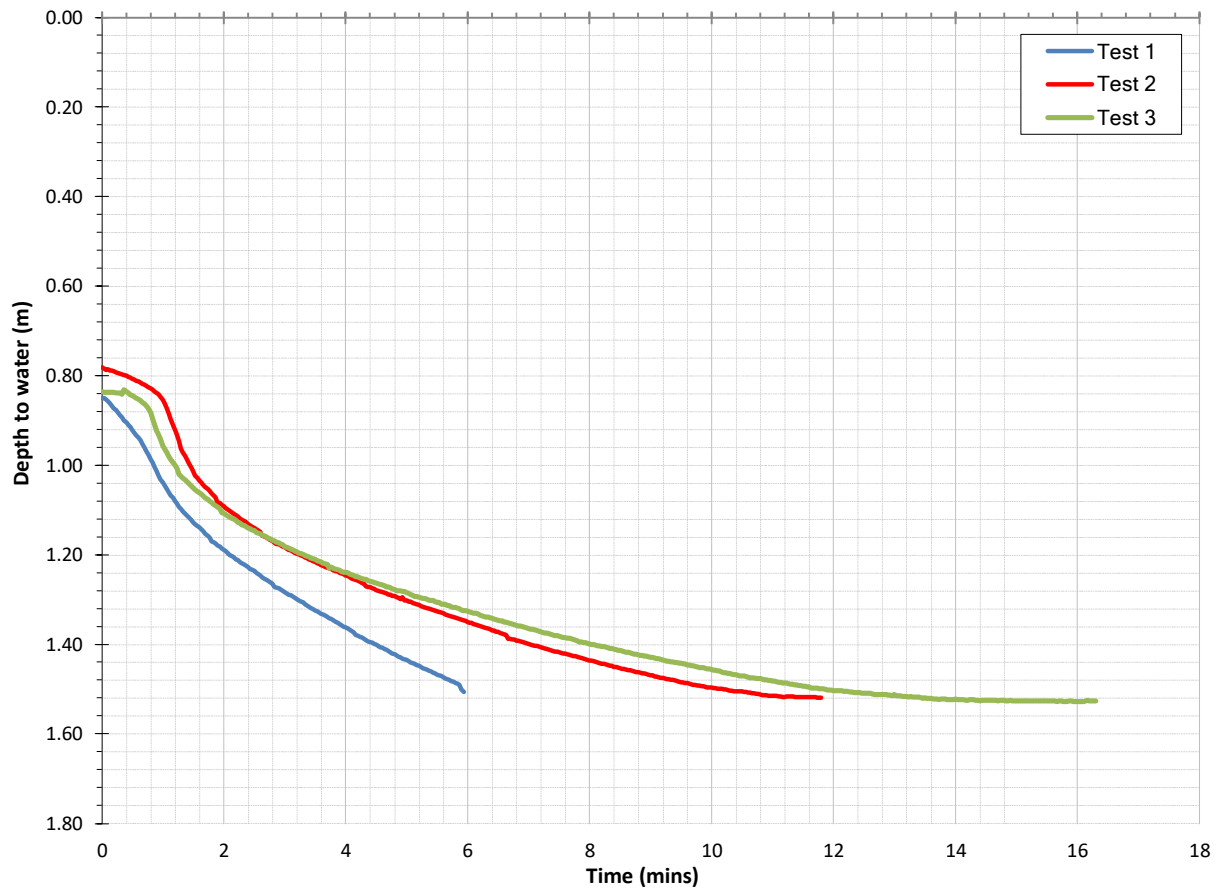
Appendix E – Soakaway Tests

Site Name	Dicken Green Mill, Rochdale	Gravel Used	Yes	
Job Number	LKC251701	Length	2.70 m	
Date of Test	18/02/2026	Width	0.80 m	
Pit Number	TP101	Depth	1.80 m	
Strata Within Test Area	Sand	Groundwater Level	m	



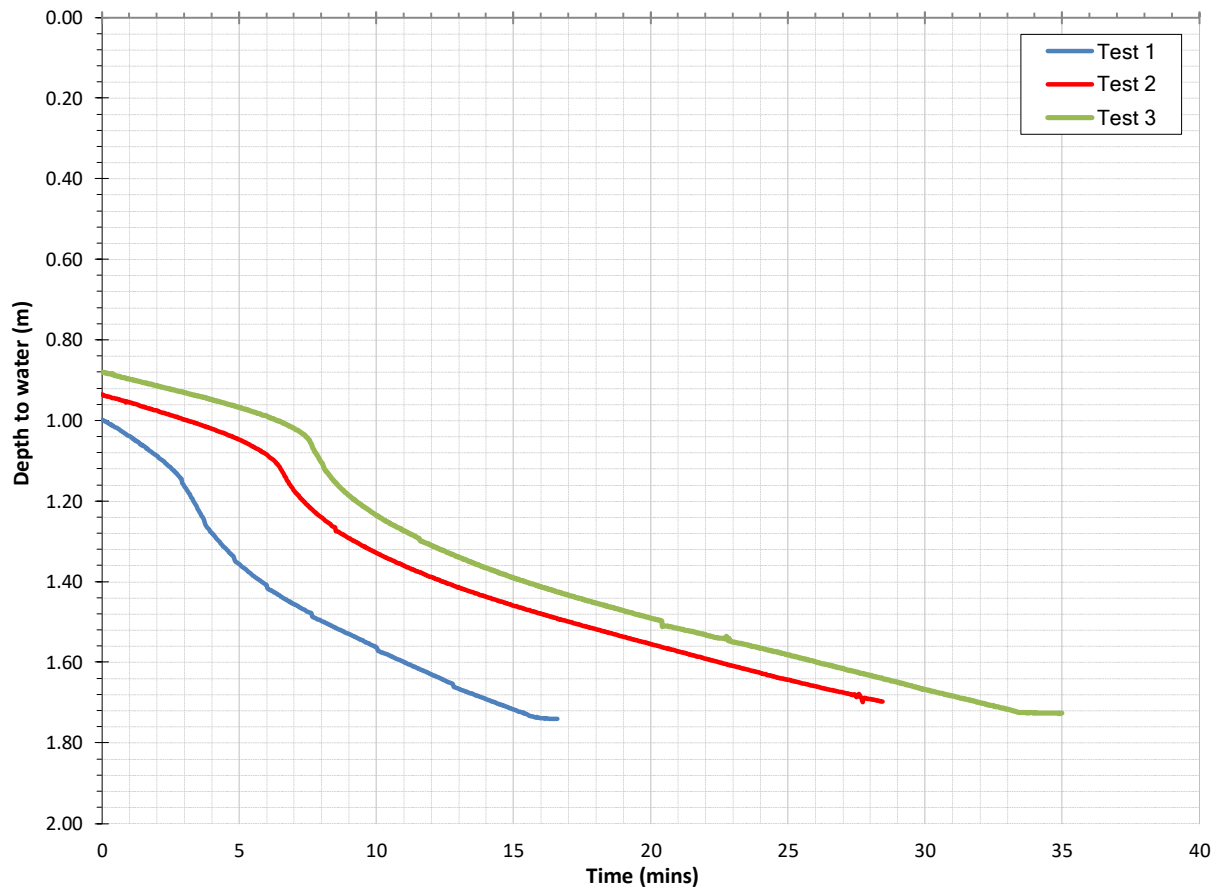
		Test 1	Test 2	Test 3
Starting Water Depth	m	1.12	1.06	1.06
Effective Storage Depth	m	0.68	0.74	0.74
75% Effective Storage Depth	m	0.51	0.56	0.55
75% Effective depth below GL	m	1.29	1.24	1.25
25% Effective Storage Depth	m	0.17	0.19	0.18
25% Effective depth below GL	m	1.63	1.61	1.62
Effective Storage Depth 75%-25%	m	0.34	0.37	0.37
Time to fall to 75% effective depth	mins	2.3	4.77	4.43
Time to fall to 25% effective depth	mins	7.86	12.30	12.2
V (75%-25%)	m ³	0.22	0.24	0.24
a (50%)	m ²	4.53	4.76	4.75
t (75%-25%)	mins	5.56	7.53	7.77
SOIL INFILTRATION RATE	m/s	1.453E-04	0.000111893	0.000108191
DESIGN SOIL INFILTRATION RATE (m/s)		1.08E-04		
COMMENTS				

Site Name	Dicken Green Mill, Rochdale	Gravel Used	Yes	
Job Number	LKC251701	Length	1.50 m	
Date of Test	18/02/2026	Width	0.80 m	
Pit Number	TP102	Depth	1.70 m	
Strata Within Test Area	Sand	Groundwater Level	m	



		Test 1	Test 2	Test 3
Starting Water Depth	m	0.85	0.78	0.84
Effective Storage Depth	m	0.85	0.92	0.86
75% Effective Storage Depth	m	0.64	0.69	0.65
75% Effective depth below GL	m	1.06	1.01	1.05
25% Effective Storage Depth	m	0.21	0.23	0.22
25% Effective depth below GL	m	1.49	1.47	1.48
Effective Storage Depth 75%-25%	m	0.43	0.46	0.43
Time to fall to 75% effective depth	mins	1.1	2.10	1.5
Time to fall to 25% effective depth	mins	5.87	9.03	10.93
V (75%-25%)	m ³	0.15	0.17	0.16
a (50%)	m ²	3.16	3.31	3.19
t (75%-25%)	mins	4.77	6.93	9.43
SOIL INFILTRATION RATE	m/s	1.695E-04	0.000120029	8.62222E-05
DESIGN SOIL INFILTRATION RATE (m/s)		8.62E-05		
COMMENTS				

Site Name	Dicken Green Mill, Rochdale	Gravel Used	Yes	
Job Number	LKC251701	Length	2.10 m	
Date of Test	19/02/2026	Width	0.90 m	
Pit Number	TP104	Depth	1.80 m	
Strata Within Test Area	Sand	Groundwater Level	m	



		Test 1	Test 2	Test 3
Starting Water Depth	m	1.00	0.93	0.88
Effective Storage Depth	m	0.80	0.87	0.92
75% Effective Storage Depth	m	0.60	0.65	0.69
75% Effective depth below GL	m	1.20	1.15	1.11
25% Effective Storage Depth	m	0.20	0.22	0.23
25% Effective depth below GL	m	1.60	1.58	1.57
Effective Storage Depth 75%-25%	m	0.40	0.43	0.46
Time to fall to 75% effective depth	mins	3.36	6.76	8.07
Time to fall to 25% effective depth	mins	11.03	21.37	24.27
V (75%-25%)	m ³	0.23	0.25	0.26
a (50%)	m ²	4.29	4.49	4.65
t (75%-25%)	mins	7.67	14.61	16.20
SOIL INFILTRATION RATE	m/s	1.149E-04	6.24046E-05	5.76882E-05
DESIGN SOIL INFILTRATION RATE (m/s)		5.77E-05		
COMMENTS				

Appendix F – Gas Monitoring Results

 LK CONSULT LTD GAS MONITORING RECORD	Site Details		Monitoring Visit Conditions		Visit No.
	Site Name	Dicken Green Mill	Recent Weather	Sunny	1
	Job Number	LKC251701	Ground Conditions	Dry	of
	Engineer	AP	Approx. Air temperature (°C)	14°C	6
	Date	05/03/2026	Atmospheric Pressure (Prev. 24 hrs)	Falling	

Site Monitoring	BH Ref.	WS101	WS104	WS105	WS106	WS110											
	Time	09:57:59	10:14:54	10:44:14	11:00:15	11:55:49											
	Barometric Pressure (mb)	999	998	998	998	1017											
	Relative Pressure (mb)	-0.39	-1.36	-0.34	-2.37	-9.19											
Gas and Groundwater Monitoring Data	Internal Flow ³ (l/hr)	0	0	0	0	0											
	Peak Flow (l/hr)	0	0	0	0	0											
	Steady CH ₄ (%v/v)	0	0	0	0	0											
	Peak CH ₄ (%v/v)	0	0	0	0	0											
	% LEL ²	0	0	0	0	0											
	Steady CO ₂ (%v/v)	1	2	4.4	1.7	0.7											
	Peak CO ₂ (%v/v)	1	2	4.4	1.9	0.7											
	Steady O2 (%v/v)	20	18.6	14.9	19.2	13											
	Min O ₂ (%v/v)	19.9	18.6	14.9	19	13											
	Balance (%)	79	79.4	80.7	79.1	86.3											
	Steady CO (ppm)	0	0	0	0	2											
	Peak CO (ppm)	24	10	1	0	12											
	Steady H ₂ S (ppm)	0	0	0	0	0											
	Peak H ₂ S (ppm)	0	0	0	0	0											
	Steady PID (ppm)	7.8	1.2	0.7	0.7	0.6											
	Max PID (ppm)	12.3	1.3	1.4	1.5	1.2											
	Standing Water Level (mbgl)	Dry	Dry	Dry	Dry	Dry											
	Installation Base Depth (mbgl)	3.75	4.9	2.8	4.83	4.71											
	Response Zone/Strata	0.5-4m	1-5m	0.5-3m	0.5-5m	1-5m											
	Comments																
Equipment							ABBREVIATIONS						NOTES				
Gas Machine	Gas Analyser GA5000						ND	Not detected			ppm	Parts per million		All monitoring is carried out in line with LK Consult Ltd procedures, with reference to CIRIA C665.			
	G502417						NR	Not recorded			mb	Millibars					
Dipmeter	HydroTechnik						UR	Unable to record			l/hr	Litres per hour		Equipment is serviced and checked as recommended by the manufacturer. Refer to calibration records and service certificates.			
	HT-01						OS	Off recordable scale			mbgl	Metres below ground level					
PID	Mini Rae Lite+ PGM7300						N/A	Not applicable			LEL	Lower explosive limit in air		² CH4 is explosive between the range of 5-15%v/v. 100% lower explosive limit is equal to 5%v/v CH4. ³ Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).			
	590-913892																

³Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).

 LK CONSULT LTD GAS MONITORING RECORD	Site Details		Monitoring Visit Conditions		Visit No.
	Site Name	Dicken Green Mill	Recent Weather	Sunny	2
	Job Number	LKC251701	Ground Conditions	Dry	of
	Engineer	AP	Approx. Air temperature (°C)	9°C	6
	Date	18/03/2026	Atmospheric Pressure (Prev. 24 hrs)	Rising	

Site Monitoring	BH Ref.	WS101	WS104	WS105	WS106	WS110											
	Time	09:30:56	10:05:14	10:26:39	10:46:54	11:20:55											
	Barometric Pressure (mb)	1004	1004	1003	1024	1024											
	Relative Pressure (mb)	-8.68	-5.2	0.04	-8.11	-4.45											
Gas and Groundwater Monitoring Data	Internal Flow ³ (l/hr)	0	0	0	0	0											
	Peak Flow (l/hr)	0	0	0	0	0											
	Steady CH ₄ (%v/v)	0	0	0	0	0											
	Peak CH ₄ (%v/v)	0	0	0	0	0											
	% LEL ²	0	0	0	0	0											
	Steady CO ₂ (%v/v)	0.8	1.9	2.7	0.7	0.5											
	Peak CO ₂ (%v/v)	0.8	1.9	2.7	0.7	0.5											
	Steady O ₂ (%v/v)	19.8	18.3	12.3	20	11.9											
	Min O ₂ (%v/v)	19.8	18.3	12.3	20	11.5											
	Balance (%)	79.4	79.8	85	79.3	87.6											
	Steady CO (ppm)	0	0	1	1	1											
	Peak CO (ppm)	4	39	32	2	2											
	Steady H ₂ S (ppm)	0	0	0	0	0											
	Peak H ₂ S (ppm)	0	0	0	0	0											
	Steady PID (ppm)	3.7	0	1.4	1.1	0											
	Max PID (ppm)	3.7	0	1.5	1.7	0.7											
	Standing Water Level (mbgl)	Dry	Dry	Dry	Dry	Dry											
	Installation Base Depth (mbgl)	3.65	4.85	2.8	4.87	4.67											
	Response Zone/Strata	0.5-4m	1-5m	0.5-3m	0.5-5m	1-5m											
	Comments																

Equipment			ABBREVIATIONS				NOTES
Gas Machine	Gas Analyser GA5000		ND	Not detected	ppm	Parts per million	All monitoring is carried out in line with LK Consult Ltd procedures, with reference to CIRIA C665.
	G502417		NR	Not recorded	mb	Millibars	
Dipmeter	HydroTechnik		UR	Unable to record	l/hr	Litres per hour	Equipment is serviced and checked as recommended by the manufacturer. Refer to calibration records and service certificates.
	HT-01		OS	Off recordable scale	mbgl	Metres below ground level	
PID	Mini Rae Lite+ PGM7300		N/A	Not applicable	LEL	Lower explosive limit in air	2CH4 is explosive between the range of 5-15%/v. 100% lower explosive limit is equal to 5%/v CH4. 3Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).
	590-913892						

³Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).

 LK CONSULT LTD GAS MONITORING RECORD	Site Details		Monitoring Visit Conditions		Visit No.
	Site Name	Dicken Green Mill	Recent Weather	Sunny	3
	Job Number	LKC251701	Ground Conditions	Dry	of
	Engineer	AP	Approx. Air temperature (°C)	8°C	6
	Date	01/04/2026	Atmospheric Pressure (Prev. 24 hrs)	Falling	

Site Monitoring	BH Ref.	WS101	WS104	WS105	WS106	WS110											
	Time	12:15:49	12:44:39	12:58:42	13:13:23	13:37:00											
	Barometric Pressure (mb)	1005	1004	1004	1004	1004											
	Relative Pressure (mb)	-8.75	-4.72	-10.92	-8.68	-9.6											
Gas and Groundwater Monitoring Data	Internal Flow ³ (l/hr)	0	0	0	0	0											
	Peak Flow (l/hr)	0.1	0	0	0	0											
	Steady CH ₄ (%v/v)	0	0	0	0	0											
	Peak CH ₄ (%v/v)	0	0	0.1	0.2	0.1											
	% LEL ²	0	0	0	0	0											
	Steady CO ₂ (%v/v)	1	2	4.4	1.6	1.5											
	Peak CO ₂ (%v/v)	1	2	4.4	1.6	1.5											
	Steady O ₂ (%v/v)	19.4	18.5	14.3	19.1	13.5											
	Min O ₂ (%v/v)	19.4	18.5	14	19.1	13.5											
	Balance (%)	79.6	79.5	81.3	79.3	84.9											
	Steady CO (ppm)	0	0	3	1	1											
	Peak CO (ppm)	1	2	6	1	2											
	Steady H ₂ S (ppm)	0	0	0	0	0											
	Peak H ₂ S (ppm)	0	0	0	0	0											
	Steady PID (ppm)	NR	NR	NR	NR	NR											
	Max PID (ppm)	NR	NR	NR	NR	NR											
	Standing Water Level (mbgl)	Dry	Dry	Dry	Dry	Dry											
	Installation Base Depth (mbgl)	3.69	4.83	2.8	4.93	4.69											
	Response Zone/Strata	0.5-4m	1-5m	0.5-3m	0.5-5m	1-5m											
	Comments																
Equipment							ABBREVIATIONS						NOTES				
Gas Machine	Gas Analyser GA5000						ND	Not detected		ppm	Parts per million		All monitoring is carried out in line with LK Consult Ltd procedures, with reference to CIRIA C665.				
	G502417						NR	Not recorded		mb	Millibars						
Dipmeter	HydroTechnik						UR	Unable to record		l/hr	Litres per hour		Equipment is serviced and checked as recommended by the manufacturer. Refer to calibration records and service certificates.				
	HT-01						OS	Off recordable scale		mbgl	Metres below ground level						
PID	-						N/A	Not applicable		LEL	Lower explosive limit in air		² CH4 is explosive between the range of 5-15%v/v. 100% lower explosive limit is equal to 5%v/v CH4. ³ Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).				
	-																

³Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).

 LK CONSULT LTD GAS MONITORING RECORD	Site Details		Monitoring Visit Conditions		Visit No. 4 of 6
	Site Name	Dicken Green Mill	Recent Weather	Overcast	
	Job Number	LKC251701	Ground Conditions	Damp	
	Engineer	AP	Approx. Air temperature (°C)	10°C	
	Date	16/04/2026	Atmospheric Pressure (Prev. 24 hrs)	Falling then rising	

Site Monitoring	BH Ref.	WS101	WS104	WS105	WS106	WS110										
	Time	11:12:53	11:28:33	11:46:04	12:00:18	12:43:46										
	Barometric Pressure (mb)	998	999	998	999	1000										
	Relative Pressure (mb)	-2.19	-6.04	-7.09	-7.51	-8.82										
Gas and Groundwater Monitoring Data	Internal Flow ³ (l/hr)	-0.1	0	0	-0.1	0										
	Peak Flow (l/hr)	-0.1	0	0	-0.1	0										
	Steady CH ₄ (%v/v)	0	0	0	0	0.2										
	Peak CH ₄ (%v/v)	0	0	0	0	0.2										
	% LEL ²	0	0	0	0	4										
	Steady CO ₂ (%v/v)	1	2	3.9	0.8	1.2										
	Peak CO ₂ (%v/v)	1	2	4	0.8	1.2										
	Steady O ₂ (%v/v)	19.9	18.5	12.7	19.9	8.4										
	Min O ₂ (%v/v)	19.6	18.5	12.7	19.8	8.4										
	Balance (%)	79.1	79.5	83.4	79.3	90.2										
	Steady CO (ppm)	1	1	2	1	2										
	Peak CO (ppm)	4	30	4	1	2										
	Steady H ₂ S (ppm)	0	0	0	0	0										
	Peak H ₂ S (ppm)	0	0	0	0	0										
	Steady PID (ppm)	NR	NR	NR	NR	NR										
	Max PID (ppm)	NR	NR	NR	NR	NR										
	Standing Water Level (mbgl)	Dry	Dry	Dry	Dry	Dry										
	Installation Base Depth (mbgl)	3.67	4.89	2.82	4.93	4.85										
	Response Zone/Strata	0.5-4m	1-5m	0.5-3m	0.5-5m	1-5m										
	Comments															

Equipment			ABBREVIATIONS			NOTES	
Gas Machine	Gas Analyser GA5000		ND	Not detected	ppm	Parts per million	All monitoring is carried out in line with LK Consult Ltd procedures, with reference to CIRIA C665. ¹ Equipment is serviced and checked as recommended by the manufacturer. Refer to calibration records and service certificates. ² CH ₄ is explosive between the range of 5-15%v/v. 100% lower explosive limit is equal to 5%v/v CH ₄ . ³ Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).
	G502417		NR	Not recorded	mb	Millibars	
Dipmeter	HydroTechnik		UR	Unable to record	l/hr	Litres per hour	
	HT-01		OS	Off recordable scale	mbgl	Metres below ground level	
PID	-		N/A	Not applicable	LEL	Lower explosive limit in air	
	-						

 LK CONSULT LTD GAS MONITORING RECORD	Site Details		Monitoring Visit Conditions		Visit No.
	Site Name	Dicken Green Mill	Recent Weather	Overcast	5
	Job Number	LKC251701	Ground Conditions	Dry	of
	Engineer	AP	Approx. Air temperature (°C)	12°C	6
	Date	05/05/2026	Atmospheric Pressure (Prev. 24 hrs)	Falling	

Site Monitoring	BH Ref.	WS101	WS104	WS105	WS106	WS110										
	Time	NR	NR	NR	NR	NR										
	Barometric Pressure (mb)	996	996	996	996	996										
	Relative Pressure (mb)	NR	NR	NR	NR	NR										
Gas and Groundwater Monitoring Data	Internal Flow ³ (l/hr)	0	0	0	0	0										
	Peak Flow (l/hr)	0	0	0	0	0										
	Steady CH ₄ (%v/v)	0	0	0	0	0										
	Peak CH ₄ (%v/v)	0	0	0	0	0										
	% LEL ²	0	0	0	0	0										
	Steady CO ₂ (%v/v)	1.3	2.4	4.8	0.7	3.8										
	Peak CO ₂ (%v/v)	1.3	2.4	4.8	0.7	3.8										
	Steady O ₂ (%v/v)	19.5	18.6	14.6	20.2	10.1										
	Min O ₂ (%v/v)	19.5	18.6	14.6	20.2	10.1										
	Balance (%)	79.1	79	80.6	79.1	86.1										
	Steady CO (ppm)	0	0	0	0	0										
	Peak CO (ppm)	0	1	1	1	0										
	Steady H ₂ S (ppm)	0	0	0	0	0										
	Peak H ₂ S (ppm)	0	0	0	0	0										
	Steady PID (ppm)	NR	NR	NR	NR	NR										
	Max PID (ppm)	NR	NR	NR	NR	NR										
	Standing Water Level (mbgl)	Dry	Dry	Dry	Dry	Dry										
	Installation Base Depth (mbgl)	3.7	4.85	2.8	4.89	4.68										
	Response Zone/Strata	0.5-4m	1-5m	0.5-3m	0.5-5m	1-5m										
	Comments															
Equipment							ABBREVIATIONS					NOTES				
Gas Machine	GFM436 Gas Analyser						ND	Not detected		ppm	Parts per million	All monitoring is carried out in line with LK Consult Ltd procedures, with reference to CIRIA C665. ¹ Equipment is serviced and checked as recommended by the manufacturer. Refer to calibration records and service certificates. ² CH ₄ is explosive between the range of 5-15%v/v. 100% lower explosive limit is equal to 5%v/v CH ₄ . ³ Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).				
							NR	Not recorded		mb	Millibars					
Dipmeter	HydroTechnik HT-01						UR	Unable to record		l/hr	Litres per hour					
							OS	Off recordable scale		mbgl	Metres below ground level					
PID	-						N/A	Not applicable		LEL	Lower explosive limit in air					

 LK CONSULT LTD GAS MONITORING RECORD	Site Details		Monitoring Visit Conditions		Visit No.
	Site Name	Dicken Green Mill	Recent Weather	Sunny	6
	Job Number	LKC251701	Ground Conditions	Dry	of
	Engineer	AP	Approx. Air temperature (°C)	24°C	6
	Date	21/05/2026	Atmospheric Pressure (Prev. 24 hrs)	Steady	

Site Monitoring	BH Ref.	WS101	WS104	WS105	WS106	WS110										
	Time	09:36:02	09:44:11	09:51:55	10:02:56	10:37:41										
	Barometric Pressure (mb)	1016	1016	1016	1016	1018										
	Relative Pressure (mb)	0.14	-6.23	0	-4.03	-3.81										
Gas and Groundwater Monitoring Data	Internal Flow ³ (l/hr)	0	0	0	0	0										
	Peak Flow (l/hr)	0	0	0	0	0										
	Steady CH ₄ (%v/v)	0	0	0	0	0										
	Peak CH ₄ (%v/v)	0	0	0	0	0										
	% LEL ²	0	0	0	0	0										
	Steady CO ₂ (%v/v)	0.3	5.4	0.1	1.5	3.6										
	Peak CO ₂ (%v/v)	0.3	5.4	0.1	1.5	3.6										
	Steady O ₂ (%v/v)	19.4	12.4	20	18.6	12.1										
	Min O ₂ (%v/v)	19.3	12.4	19.8	18.6	12.1										
	Balance (%)	80.3	82.2	79.9	79.9	84.3										
	Steady CO (ppm)	11	0	0	0	1										
	Peak CO (ppm)	12	35	3	0	1										
	Steady H ₂ S (ppm)	0	0	0	0	0										
	Peak H ₂ S (ppm)	0	0	0	0	0										
	Steady PID (ppm)	NR	NR	NR	NR	NR										
	Max PID (ppm)	NR	NR	NR	NR	NR										
	Standing Water Level (mbgl)	Dry	Dry	Dry	Dry	Dry										
	Installation Base Depth (mbgl)	3.66	4.85	2.8	4.87	4.67										
	Response Zone/Strata	0.5-4m	1-5m	0.5-3m	0.5-5	1-5m										
	Comments															

Equipment				ABBREVIATIONS				NOTES	
Gas Machine	Gas Analyser GA5000			ND	Not detected	ppm	Parts per million	All monitoring is carried out in line with LK Consult Ltd procedures, with reference to CIRIA C665.	
	G504478			NR	Not recorded	mb	Millibars		
Dipmeter	HydroTechnik			UR	Unable to record	l/hr	Litres per hour	¹ Equipment is serviced and checked as recommended by the manufacturer. Refer to calibration records and service certificates.	
	HT-01			OS	Off recordable scale	mbgl	Metres below ground level		
PID	-			N/A	Not applicable	LEL	Lower explosive limit in air	² CH4 is explosive between the range of 5-15%/v. 100% lower explosive limit is equal to 5%/v CH4.	
	-								
³ Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).									

³Flow readings are based on steady 1 minute value where flow is detected (equipment range of +/- 12 ltr/hr).

Appendix G – Generic Assessment Criteria Value

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
Metals	Inorganic Arsenic	N/A	37	40	49	640	79	168	DEFRA C4SL
	Beryllium	N/A	1.7	1.7	35	12	2.2	63	LQM S4UL
	Boron	N/A	290	11,000	45	240,000	21,000	46,000	LQM S4UL
	Cadmium	N/A	26	149	4.9	410	220	880	DEFRA C4SL
	Chromium (III)	N/A	910	910	18,000	8,600	1,500	33,000	LQM S4UL
	Chromium (VI)	N/A	21.0	21.0	170.0	49	23.0	250	DEFRA C4SL
	Copper	N/A	2,400	7,100	520	68,000	12,000	44,000	LQM S4UL
	Lead	N/A	200	310	80	2,330	630	1,300	DEFRA C4SL
	Elemental Mercury	N/A	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}	LQM S4UL
	Inorganic Mercury	N/A	40	56	19	1,100	120	240	LQM S4UL
	Methylmercury	N/A	11	15	6.0	320	40	68	LQM S4UL
	Nickel	N/A	130	180	53	980	230	800	LQM S4UL
	Selenium	N/A	250	430	88	12,000	1,100	1,800	LQM S4UL
Polycyclic Aromatic Hydrocarbons (PAHs)	Vanadium	N/A	410	1,200	91	9,000	2,000	5,000	LQM S4UL
	Zinc	N/A	3,700	40,000	620	730,000	81,000	170,000	LQM S4UL
	Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000	LQM S4UL
		6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000	LQM S4UL
	Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000	LQM S4UL
		6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000	LQM S4UL
	Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000	LQM S4UL
		2.5%	5,400	35,000	950	540,000	74,000	150,000	LQM S4UL
		6%	11,000	37,000	2,200	540,000	74,000	150,000	LQM S4UL
	Benz(a)anthracene	1%	7.2	11	2.9	170	29	49	LQM S4UL
		2.5%	11	14	6.5	170	29	56	LQM S4UL
		6%	13	15	13	180	29	62	LQM S4UL
	Benzo(a)pyrene (only)	1%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		2.5%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		6%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
	Benzo(a)pyrene (surrogate marker Coal Tar)	1%	0.8	1.2	0.32	15	2.2	4	LQM S4UL
		2.5%	1.0	1.2	0.67	15	2.2	5	LQM S4UL
		6%	1.1	1.2	1.20	15	2.2	5	LQM S4UL
	Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13	LQM S4UL
		2.5%	3.3	4.0	2.1	44	7.2	15	LQM S4UL
		6%	3.7	4.0	3.9	45	7.2	16	LQM S4UL
	Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400	LQM S4UL
		2.5%	340	360	470	4,000	640	1,500	LQM S4UL
		6%	350	360	640	4,000	640	1,600	LQM S4UL
	Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370	LQM S4UL
		2.5%	93	110	75	1,200	190	410	LQM S4UL
		6%	100	110	130	1,200	190	440	LQM S4UL
	Chrysene	1%	15	30	4.1	350	57	93	LQM S4UL
		2.5%	22	31	9.4	350	57	110	LQM S4UL
		6%	27	32	19	350	57	120	LQM S4UL
	Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1	LQM S4UL
		2.5%	0.28	0.32	0.27	3.6	0.58	1.3	LQM S4UL
		6%	0.3	0.32	0.43	3.6	0.58	1.4	LQM S4UL
	Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300	LQM S4UL
		2.5%	560	1,600	130	23,000	3,100	6,300	LQM S4UL
		6%	890	1,600	290	23,000	3,100	6,400	LQM S4UL
	Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000	LQM S4UL
		2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000	LQM S4UL
		6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000	LQM S4UL
	Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150	LQM S4UL
		2.5%	36	46	21	510	82	170	LQM S4UL
		6%	41	46	39	510	82	180	LQM S4UL
	Naphthalene	1%	15	15	65	1600 f	11000 f	800 f	C4SL
		2.5%	36	36	130	3700 f	15000 f	1200 f	C4SL
		6%	85	85	200	8400 f	17000 f	1900 f	C4SL
	Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200	LQM S4UL
		2.5%	220	1,500	38	22,000	3,100	6,200	LQM S4UL
		6%	440	1,500	90	22,000	3,100	6,300	LQM S4UL
	Pyrene	1%	620	3,700	110	54,000	7,400	15,000	LQM S4UL
		2.5%	1,200	3,800	270	54,000	7,400	15,000	LQM S4UL
		6%	2,000	3,800	620	54,000	7,400	15,000	LQM S4UL
	Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4	LQM S4UL
		2.5%	0.98	1.2	0.67	15	2.2	4.7	LQM S4UL
		6%	1.1	1.2	1.2	15	2.2	4.8	LQM S4UL

Generic Assessment Criteria Values

	Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
BTEx Compounds	Benzene	1%	0.087	0.38	0.017	27	72	90	LQM S4UL
		2.5%	0.17	0.70	0.034	47	72	100	LQM S4UL
		6%	0.37	1.4	0.075	90	73	110	LQM S4UL
		6%	0.87	3.3	0.180	98	140	230	C4SL
	Toluene	1%	130	880 (869) ^{vap}	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}	LQM S4UL
		2.5%	290	1,900	51	110,000 (1,920) ^{vap}	56,000	95,000 (1,920) ^{vap}	LQM S4UL
		6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}	LQM S4UL
	Ethylbenzene	1%	47	83	16	5,700 (518) ^{vap}	24,000	17,000 (518) ^{vap}	LQM S4UL
		2.5%	110	190	39	13,000 (1,220) ^{vap}	24,000	22,000 (1,220) ^{vap}	LQM S4UL
		6%	260	440	91	27,000 (2,840) ^{vap}	25,000	27,000 (2,840) ^{vap}	LQM S4UL
	o-xylene	1%	60	88	28	6,600 (478) ^{sol}	41,000	17,000 (478) ^{sol}	LQM S4UL
		2.5%	140	210	67	15,000 (1,120) ^{sol}	42,000	24,000 (1,120) ^{sol}	LQM S4UL
		6%	330	480	160	33,000 (2,620) ^{sol}	43,000	33,000 (2,620) ^{sol}	LQM S4UL
	m-xylene	1%	59	82	31	6,200 (625) ^{vap}	41,000	17,000 (625) ^{vap}	LQM S4UL
		2.5%	140	190	74	14,000 (1,470) ^{vap}	42,000	24,000 (1,470) ^{vap}	LQM S4UL
		6%	320	450	170	31,000 (3,460) ^{vap}	43,000	32,000 (3,460) ^{vap}	LQM S4UL
	p-xylene	1%	56	79	29	5,900 (576) ^{sol}	41,000	17,000 (576) ^{sol}	LQM S4UL
		2.5%	130	180	69	14,000 (1,350) ^{sol}	42,000	23,000 (1,350) ^{sol}	LQM S4UL
		6%	310	430	160	30,000 (3,170) ^{sol}	43,000	31,000 (3,170) ^{sol}	LQM S4UL
Petroleum Hydrocarbons	Aliphatic								
	EC 5-6	1%	42	42	730	3,200 (304) ^{sol}	570,000(304) ^{sol}	95,000 (304) ^{sol}	LQM S4UL
	EC>6-8	1%	100	100	2,300	7,800 (144) ^{sol}	600,000	150,000 (144) ^{sol}	LQM S4UL
	EC>8-10	1%	27	27	320	2,000 (78) ^{sol}	13,000	14,000 (78) ^{vap}	LQM S4UL
	EC>10-12	1%	130 (48) ^{vap}	130 (48) ^{vap}	2,200	9,700 (48) ^{sol}	13,000	21,000 (48) ^{vap}	LQM S4UL
	EC>12-16	1%	1,100 (24) ^{sol}	1,100 (24) ^{sol}	11,000	59,000 (24) ^{sol}	13,000	25,000 (24) ^{sol}	LQM S4UL
	EC>16-35	1%	65,000 (8.48)	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f	LQM S4UL
	EC>35-44	1%	65,000 (8.48)	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f	LQM S4UL
	Aliphatic								
	EC 5-6	2.5%	78	78	1,700	5,900 (558) ^{sol}	590,000	130,000 (558) ^{sol}	LQM S4UL
	EC>6-8	2.5%	230	230	5,600	17,000 (322) ^{sol}	610,000	220,000 (322) ^{sol}	LQM S4UL
	EC>8-10	2.5%	65	65	770	4,800 (190) ^{vap}	13,000	18,000 (190) ^{vap}	LQM S4UL
	EC>10-12	2.5%	330 (118) ^{vap}	330 (118) ^{vap}	4,400	23,000 (118) ^{vap}	13,000	23,000 (118) ^{vap}	LQM S4UL
	EC>12-16	2.5%	2,400 (59) ^{sol}	2,400 (59) ^{sol}	13,000	82,000 (59) ^{sol}	13,000	25,000 (59) ^{sol}	LQM S4UL
	EC>16-35	2.5%	92,000 (21)	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f	LQM S4UL
	EC>35-44	2.5%	92,000 (21)	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f	LQM S4UL
	Aliphatic								
	EC 5-6	6%	160	160	3,900	12,000 (1,150) ^{sol}	600,000	180,000 (1,150) ^{sol}	LQM S4UL
	EC>6-8	6%	530	530	13,000	40,000 (736) ^{sol}	620,000	320,000 (736) ^{sol}	LQM S4UL
	EC>8-10	6%	150	150	1,700	11,000 (451) ^{vap}	13,000	21,000 (451) ^{vap}	LQM S4UL
	EC>10-12	6%	760 (283) ^{vap}	760 (283) ^{vap}	7,300	47,000 (283) ^{vap}	13,000	24,000 (283) ^{vap}	LQM S4UL
	EC>12-16	6%	4,300 (142) ^{sol}	4,400 (142) ^{sol}	13,000	90,000 (142) ^{sol}	13,000	26,000 (142) ^{sol}	LQM S4UL
	EC>16-35	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f	LQM S4UL
	EC>35-44	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	1%	70	370	13	26,000 (1,220) ^{sol}	56,000	76,000 (1,220) ^{sol}	LQM S4UL
	EC>7-8(toluene)	1%	130	860	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}	LQM S4UL
	EC>8-10	1%	34	47	8.6	3,500 (613) ^{vap}	5,000	7,200 (613) ^{vap}	LQM S4UL
	EC>10-12	1%	74	250	13	16,000 (364) ^{sol}	5,000	9,200 (364) ^{sol}	LQM S4UL
	EC>12-16	1%	140	1,800	23	36,000 (169) ^{sol}	5,100	10,000	LQM S4UL
	EC>16-21	1%	260 ^f	1,900 ^f	46 ^f	28,000 ^f	3,800 ^f	7,600 ^f	LQM S4UL
	EC>21-35	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	EC>35-44	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	2.5%	140	690	27	46,000 (2,260) ^{sol}	56,000	84,000 (2,260) ^{sol}	LQM S4UL
	EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) ^{sol}	56,000	95,000 (1,920) ^{sol}	LQM S4UL
	EC>8-10	2.5%	83	110	21	8,100 (1,500) ^{vap}	5,000	8,500 (1,500) ^{vap}	LQM S4UL
	EC>10-12	2.5%	180	590	31	28,000 (899) ^{sol}	5,000	9,700 (899) ^{sol}	LQM S4UL
	EC>12-16	2.5%	330	2,300 (419) ^{sol}	57	37,000	5,100	10,000	LQM S4UL
	EC>16-21	2.5%	540 ^f	1,900 ^f	110 ^f	28,000 ^f	3,800 ^f	7,700 ^f	LQM S4UL
	EC>21-35	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	EC>35-44	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	6%	300	1,400	57	86,000 (4,710) ^{sol}	56,000	92,000 (4,710) ^{sol}	LQM S4UL
	EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}	LQM S4UL
	EC>8-10	6%	190	270	51	17,000 (3,580) ^{vap}	5,000	9,300 (3,580) ^{vap}	LQM S4UL
	EC>10-12	6%	380	1,200	4	34,000 (2,150) ^{sol}	5,000	10,000	LQM S4UL
	EC>12-16	6%	660	2,500	130	38,000	5,100	10,000	LQM S4UL
	EC>16-21	6%	930 ^f	1,900 ^f	260 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	EC>21-35	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL
	EC>35-44	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL
	Aliphatic +Aromatic >EC44	1%	1,600 ^f	1,900 ^f	1,200 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
		2.5%	1,800 ^f	1,900 ^f	2,100 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
		6%	1,900 ^f	1,900 ^f	3,000 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
Chloalkanes and Alkenes & Explosives	1,2 Dichloroethane (DCA)	1%	0.11	0.16	0.05	12.0	300	300	DEFRA C4SL
		2.5%	0.18	0.24	0.10	17.0	310	330	DEFRA C4SL
		6%	0.31	0.41	0.19	29.0	310	330	DEFRA C4SL
	1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) ^{vap}	LQM S4UL
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) ^{vap}	LQM S4UL
		6%	39	40	240	3,000	140,000	100,000 (6,392)	LQM S4UL
	1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800	LQM S4UL
		2.5%	3.4	8.0	0.89	550	1,400	2,100	LQM S4UL
		6%	7.5	17	2.0	1,100	1,400	2,300	LQM S4UL
	1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500	LQM S4UL
		2.5%	2.8	3.5	1.9	250	1,400	1,800	LQM S4UL
		6%	6.4	8.2	4.4	560	1,400	2,100	LQM S4UL
	Tetrachloroethene (PCE)	1%	0.31	0.32	2.00	24	3,200	1400	DEFRA C4SL
		2.5%	0.70	0.71	4.8	55	3,300	1900	DEFRA C4SL
		6%	1.60	1.60	11.0	130	3,400	2,500	DEFRA C4SL
	Tetrachloromethane (carbon tetrachloride)	1%	0.03	0.03	0.45	2.9	890	190	LQM S4UL
		2.5%	0.06	0.06	1.0	6.3	920	270	LQM S4UL
		6%	0.13	0.13	2.4	14	950	400	LQM S4UL
	Trichloroethene (TCE)	1%	0.009	0.010	0.032	0.7	76.0	41.0	DEFRA C4SL
		2.5%	0.020	0.020	0.072	1.5	78.0	51.0	DEFRA C4SL
		6%	0.043	0.045	0.160	3.4	79.0	69.0	DEFRA C4SL
	cis 1,2-dichloroethene	1%	0.46	0.50	0.890	38	3,800	2,000	DEFRA C4SL
		2.5%	0.78	0.84	1.70	64	3,800	2,400	DEFRA C4SL
		6%	1.50	1.60	3.60	120	3,900	3,100	DEFRA C4SL
	Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600	LQM S4UL
		2.5%	1.7	2.1	0.83	170	2,500	2,800	LQM S4UL
		6%	3.4	4.2	1.7	350	2,500	3,100	LQM S4UL
	Trans-1,2 Dichloroethene	1%	0.9	0.9	3.7	69	13,000	5,600	DEFRA C4SL
		2.5%	1.6	1.7	7.5	120	13,000	7,000	DEFRA C4SL
		6%	3.3	3.4	16.0	260	13,000	9,100	DEFRA C4SL
	Chloroethene (vinyl chloride)	1%	0.006	0.015	0.0017	1.1E+00	7.8	18.0	DEFRA C4SL
		2.5%	0.010	0.019	0.0031	1.4E+00	7.8	19.0	DEFRA C4SL
		6%	0.017	0.029	0.0058	2.20	7.8	19.0	DEFRA C4SL
	2,4,6-Trinitrotoluene (TNT)	1%	1.6	65	0.24	1,000	130	260	LQM S4UL
		2.5%	3.7	66	0.58	1,000	130	270	LQM S4UL
		6%	8.1	66	1.4	1,000	130	270	LQM S4UL
	RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) ^{sol}	LQM S4UL
		2.5%	250	13,000	38	210,000	26,000	51,000	LQM S4UL
		6%	540	13,000	85	210,000	27,000	53,000	LQM S4UL
	HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) ^{vap}	LQM S4UL
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) ^{vap}	LQM S4UL
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) ^{vap}	LQM S4UL
Pesticides	Aldrin	1%	5.7	7.3	3.2	170	18	30	LQM S4UL
		2.5%	6.6	7.4	6.1	170	18	31	LQM S4UL
		6%	7.1	7.5	9.8	170	18	31	LQM S4UL
	Dieldrin	1%	0.97	7.0	0.17	170	18	30	LQM S4UL
		2.5%	2.0	7.3	0.41	170	18	30	LQM S4UL
		6%	3.5	7.4	0.96	170	18	31	LQM S4UL
	Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300	LQM S4UL
		2.5%	7.8	620	1.2	9,400	1,200	2,400	LQM S4UL
		6%	17.4	620	2.7	9,400	1,200	2,400	LQM S4UL
	Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26	LQM S4UL
		2.5%	6.6E-02	6.5	1.0E-02	140	16	26	LQM S4UL
		6%	0.14	6.6	2.2E-02	140	16	27	LQM S4UL
	Endosulfanns (2 isomers)	1%	7.4	160 (3.0E-03) ^{vap}	1.2	5,600 (3.0E-03) ^{vap}	1,200	2,300	LQM S4UL
		2.5%	18	280 (7.0E-03) ^{vap}	2.9	7,400 (7.0E-03) ^{vap}	1,200	2,400	LQM S4UL
		6%	41	410 (1.6E-02) ^{vap}	6.8	8,400 (1.6E-02) ^{vap}	1,200	2,500	LQM S4UL
	Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15	LQM S4UL
		2.5%	0.2	3.8	3.2E-02	65	8.1	15	LQM S4UL
		6%	0.46	3.8	7.7E-02	65	8.1	16	LQM S4UL
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}	LQM S4UL
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}	LQM S4UL
		6%	2.4	2.4	32	290	14,000	2,900	LQM S4UL
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}	LQM S4UL
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}	LQM S4UL
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}	LQM S4UL
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}	LQM S4UL
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}	LQM S4UL
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}	LQM S4UL
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}	LQM S4UL
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120	LQM S4UL
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130	LQM S4UL
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190	LQM S4UL
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190	LQM S4UL
		6%	22	38	7.0	830	100	190	LQM S4UL
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30	LQM S4UL
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30	LQM S4UL
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30	LQM S4UL

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 ^g	94	0.13 ^g	3,500	620	1,100	LQM S4UL
		2.5%	2.0	150	0.30	4,000	620	1,100	LQM S4UL
		6%	4.5	210	0.70	4,300	620	1,100	LQM S4UL
	Pentachlorophenol	1%	0.22	27 (16.4) ^{vap}	3.0E-02	400	60	110	LQM S4UL
		2.5%	0.52	29	8.0E-02	400	60	120	LQM S4UL
		6%	1.2	31	0.19	400	60	120	LQM S4UL
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300	LQM S4UL
		2.5%	0.29	0.29	10	22	11,000	1,900	LQM S4UL
		6%	0.62	0.62	23	47	11,000	2,700	LQM S4UL
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48	LQM S4UL
		2.5%	0.7	0.78	0.61	66	25	50	LQM S4UL
		6%	1.6	1.8	1.4	120	25	51	LQM S4UL
	Phenol	1%	120	440 (460)	23	440 ^{dir} (26,000)	440 ^{dir} (10,000)	440 ^{dir} (7,600)	LQM S4UL
		2.5%	200	690	42	690 ^{dir} (30,000)	690 ^{dir} (10,000)	690 ^{dir} (8,300)	LQM S4UL
		6%	380	1,200	83	1,300 ^{dir} (34,000)	1,300 ^{dir} (10,000)	1,300 ^{dir} (9,300)	LQM S4UL

sol/vap = solubility/vapour limit (potentially use if free product identified, although highly conservative)
f=naphthalene is based on comparison of inhalation exposure with TDI(inhal) for localised effect
f = oral, dermal and inhalation exposures compared to oral HCV
dir = S4ULs based on threshold protective of direct skin contact with phenol)brackets long term exposure for illustration purposes)
g = derived based on 2,3,4-tetrachlorophenol

Appendix H – Hazard Index Sheets

$$HI = \sum_{Fi=1}^{16} HQ_{Fi} = \frac{\text{Measured concentration } Fi \text{ (mg/kg)}}{S4UL \text{ } Fi \text{ (mg/kg)}}$$

where: HI = Hazard Index
 HQ = Hazard Quotient
 Fi = Fraction I
 S4UL = LQM Suitable 4 Use Levels (S4ULs)

Job Dicken Green Mill
Job No. LKC251701
SOM <0.1
Comment WS106 0.10-0.15mbgl

Residential With Plant Uptake

	1% S4UL	2.50% S4UL	6% S4UL	Max Soil concn.	HQ (1%SOM)	HQ (2.5%SOM)	HQ (6% SOM)
Aliphatic							
EC5-EC6	42	78	160	0.01	0.0002381		
EC6-EC8	100	230	530	0.01	0.0001		
EC8-EC10	27	65	150	0.01	0.0003704		
EC10-EC12	130	330	760	1.5	0.0115385		
EC12-EC16	1100	2400	4300	1.2	0.0010909		
EC16-EC21	65000	92000	110000	5075	0.0780769		
EC21-EC35							
EC35-EC44	65000	92000	110000	58	0.0008923		
Aromatic							
EC5-EC7 (benzene)	70	140	300	0.01	0.0001429		
EC7-EC8 (tolulene)	130	290	660	0.01	7.692E-05		
EC8-EC10	34	83	190	0.01	0.0002941		
EC10-EC12	74	180	380	12	0.1621622		
EC12-EC16	140	330	660	6.9	0.0492857		
EC16-EC21	260	540	930	49	0.1884615		
EC21-EC35	1100	1500	1700	430	0.3909091		
EC35-EC44	1100	1500	1700	63	0.0572727		

HI

0.94

$$HI = \sum_{Fi=1}^{16} HQ_{Fi} = \frac{\text{Measured concentration } Fi \text{ (mg/kg)}}{S4UL \text{ } Fi \text{ (mg/kg)}}$$

where: HI = Hazard Index
 HQ = Hazard Quotient
 Fi = Fraction I
 S4UL = LQM Suitable 4 Use Levels (S4ULs)

Job Dicken Green Mill
Job No. LKC251701
SOM 11.0
Comment WS110 1.80-2.30mbgl

Residential With Plant Uptake

	1% S4UL	2.50% S4UL	6% S4UL	Max Soil concn.	HQ (1%SOM)	HQ (2.5%SOM)	HQ (6% SOM)
Aliphatic							
EC5-EC6	42	78	160	0.01			0.0000625
EC6-EC8	100	230	530	0.01			1.887E-05
EC8-EC10	27	65	150	0.01			6.667E-05
EC10-EC12	130	330	760	1.5			0.0019737
EC12-EC16	1100	2400	4300	1.2			0.0002791
EC16-EC21	65000	92000	110000	481			0.0043727
EC21-EC35							
EC35-EC44	65000	92000	110000	89			0.0008091
Aromatic							
EC5-EC7 (benzene)	70	140	300	0.01			3.333E-05
EC7-EC8 (tolulene)	130	290	660	0.01			1.515E-05
EC8-EC10	34	83	190	0.01			5.263E-05
EC10-EC12	74	180	380	21			0.0552632
EC12-EC16	140	330	660	1.3			0.0019697
EC16-EC21	260	540	930	7.9			0.0084946
EC21-EC35	1100	1500	1700	150			0.0882353
EC35-EC44	1100	1500	1700	80			0.0470588

HI			0.21
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$$HI = \sum_{Fi=1}^{16} HQ_{Fi} = \frac{\text{Measured concentration } Fi \text{ (mg/kg)}}{S4UL \text{ } Fi \text{ (mg/kg)}}$$

where: HI = Hazard Index
 HQ = Hazard Quotient
 Fi = Fraction I
 S4UL = LQM Suitable 4 Use Levels (S4ULs)

Job Dicken Green Mill
Job No. LKC251701
SOM 1.0
Comment TP110 0.15-0.65mbgl

Residential With Plant Uptake

	1% S4UL	2.50% S4UL	6% S4UL	Max Soil concn.	HQ (1%SOM)	HQ (2.5%SOM)	HQ (6% SOM)
Aliphatic							
EC5-EC6	42	78	160	0.01	0.0002381		
EC6-EC8	100	230	530	0.01	0.0001		
EC8-EC10	27	65	150	0.01	0.0003704		
EC10-EC12	130	330	760	1.5	0.0115385		
EC12-EC16	1100	2400	4300	2.7	0.0024545		
EC16-EC21	65000	92000	110000	772	0.0118769		
EC21-EC35							
EC35-EC44	65000	92000	110000	8.6	0.0001323		
Aromatic							
EC5-EC7 (benzene)	70	140	300	0.01	0.0001429		
EC7-EC8 (tolulene)	130	290	660	0.01	7.692E-05		
EC8-EC10	34	83	190	0.01	0.0002941		
EC10-EC12	74	180	380	0.9	0.0121622		
EC12-EC16	140	330	660	0.5	0.0035714		
EC16-EC21	260	540	930	13	0.05		
EC21-EC35	1100	1500	1700	130	0.1181818		
EC35-EC44	1100	1500	1700	3.7	0.0033636		

HI 0.21

Appendix I – JIWG model Output Sheet

Decision Support Tool for Receptor Risk Ranking

Stage 1		Score
Hazard Identification		
Select ACM type (run model for each type to generate 'Worst Case' output)	Free dispersed fibres/fibre bundles	2
Extent of degradation of ACMs	Disaggregated (dominated by loose fibrous material; extreme degradation in ACM and/or free asbestos fibres/fibre bundles)	4
Friability and degree of bonding by matrix (ACM matrix, not ground materials)	Friable ACM or ACM with fibres not linked in any matrix (free dispersed fibres/fibre bundles)	4
Distribution of Visible Asbestos Across Affected Area	No visible ACMs/fibre bundles	0
Asbestos fibre type	Chrysotile alone	0
Sub-total		10
Hazard ranking		Low

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.
It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.



Stage 2		Score
Emission Factors		
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Very Low quantities - 0.001 to 0.01 %wt/wt	1
Respirable fibre index for ACM - RIVM report 711701034 (2003)	Medium	3
Activity type and effect on deterioration of ACMs	Minimal disturbance, no deterioration expected	1
Best description of primary host material matrix	Coarse to Fine Sand	2
Sub-total		7
Exposure ranking		Low

Stage 3		Score	
Pathway and Receptor Sensitivity			
Receptor category	Public open space or building	No score required	
Age of Receptor	Infant (under 5)	4	
Duration of exposure/site occupancy	< 1 hour in any single day (e.g. frequent but short exposure event)	1	
Receptor ranking		5	Medium
Combined hazard, exposure and receptor ranking			Low
Pathway: Distance of Receptor from Source	In or within 10m of area of disturbance	4	
Pathway: Depth to impacted material	Material present near the surface, potential to be disturbed during non-construction/routine use of land	D	
Pathway ranking		4D	Medium
Overall ranking			Low

Project Reference	LKC251701
Site Name	Dicken Green Mill, Rochdale
Client	MCI Developments Limited
Run by	F Peers
Date	17-Mar-26
Reviewed by	
Characterisation of scenario being evaluated	Public Open Space
Interpretation of scenario ranking by DST	Low risk - no formal capping layer required other than nominal 150mm topsoil cover

Decision Support Tool for Receptor Risk Ranking

Stage 1		Score
Hazard Identification		
Select ACM type (run model for each type to generate 'Worst Case' output)	Free dispersed fibres/fibre bundles	2
Extent of degradation of ACMs	Disaggregated (dominated by loose fibrous material; extreme degradation in ACM and/or free asbestos fibres/fibre bundles)	4
Friability and degree of bonding by matrix (ACM matrix, not ground materials)	Friable ACM or ACM with fibres not linked in any matrix (free dispersed fibres/fibre bundles)	4
Distribution of Visible Asbestos Across Affected Area	No visible ACMs/fibre bundles	0
Asbestos fibre type	Mainly chrysotile and trace amphibole (no crocidolite)	1
Sub-total		11
Hazard ranking		Medium

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.
It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.



Stage 2		Score	
Emission Factors			
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Very Low quantities - 0.001 to 0.01 %wt/wt	1	
Respirable fibre index for ACM - RIVM report 711701034 (2003)	Medium	3	
Activity type and effect on deterioration of ACMs	Minimal disturbance, no deterioration expected	1	
Best description of primary host material matrix	Coarse to Fine Sand	2	
Sub-total		7	
Exposure ranking			Low

Stage 3		Score
Pathway and Receptor Sensitivity		
Receptor category	Residential	No score required
Age of Receptor	Infant (under 5)	4
Duration of exposure/site occupancy	>> 10 hours per day (e.g. 24 hour residential exposure)	4
Receptor ranking		8 High
Combined hazard, exposure and receptor ranking		Medium
Pathway: Distance of Receptor from Source	In or within 10m of area of disturbance	4
Pathway: Depth to impacted material	Material buried at depth, unlikely to be disturbed except for deeper construction related excavation	B
Pathway ranking		4B Very Low
Overall ranking		Very Low



Joint Industry Working Group
Asbestos in Soil and Construction & Demolition Materials

Project Reference	LKC251701
Site Name	Dicken Green Mill, Rochdale
Client	MCI Developments Limited
Run by	F Peers
Date	17-Mar-26
Reviewed by	
Characterisation of scenario being evaluated	Residential development with private gardens
Interpretation of scenario ranking by DST	Very low risk - no further remediation required other than the cover system recommended.

Appendix J – HazWasteOnline™ Output Sheets

Waste Classification Report

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

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



X4X3O-YQJFY-15W6M

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

Report is invalid if pages are removed.

Job name

LKC251701

Description/Comments

Project

LKC251701

Site

Dickens Green Mill

Classified by

Name: **Peter Dunn**
Date: **24 Mar 2026 16:40 GMT**
Telephone: **0161 763 7200**
Company: **LK Group**
Unit 29 Eton Business Park
Radcliffe
M26 2ZS

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

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification
Most recent 3 year Refresher

Date

26 Mar 2015 *
07 Oct 2025

Next 3 year Refresher due by Oct 2028
* training course booked

Purpose of classification

2 - Material Characterisation

Address of the waste

Greenfield Ln, Rochdale

Post Code **OL11 1TJ**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Development of brownfield land

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

Construction

Description of the waste

Made ground and soil

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP101/0.15-0.30/2026-02-18		Non Hazardous		3
2	TP102/0.20-0.50/2026-02-18		Non Hazardous		5
3	TP103/0.15-0.80/2026-02-18		Non Hazardous		8
4	TP104/0.10-0.60/2026-02-19		Non Hazardous		11
5	TP105/0.10-0.50/2026-02-19		Non Hazardous		13
6	TP106/0.20-1.20/2026-02-19		Non Hazardous		15
7	TP107/0.10-0.80/2026-02-19		Non Hazardous		18
8	TP108/0.00-1.80/2026-02-19		Non Hazardous		21
9	TP109/0.00-0.50/2026-02-19		Non Hazardous		24
10	TP109/0.50-1.30/2026-02-19		Non Hazardous		26
11	TP110/0.15-0.65/2026-02-19		Hazardous	HP 8	28
12	WS101/0.10-0.15/2026-02-18		Non Hazardous		31
13	WS102/0.20-0.25/2026-02-18		Non Hazardous		33
14	WS103/0.30-0.35/2026-02-18		Non Hazardous		36
15	WS104/0.28-0.63/2026-02-18		Hazardous	HP 8	39
16	WS105/0.08-0.48/2026-02-18		Non Hazardous		41
17	WS106/0.10-0.15/2026-02-19		Non Hazardous		43
18	WS107/0.30-0.35/2026-02-19		Non Hazardous		49
19	WS108/0.25-0.30/2026-02-19		Non Hazardous		51
20	WS109/0.30-0.35/2026-02-19		Non Hazardous		57
21	WS110/0.15-0.20/2026-02-19		Non Hazardous		59
22	WS110/1.80-2.30/2026-02-19		Non Hazardous		61

Related documents

#	Name	Description
1	26-04356.hwol	DETS North .hwol file used to populate the Job
2	26-04357.hwol	DETS North .hwol file used to populate the Job

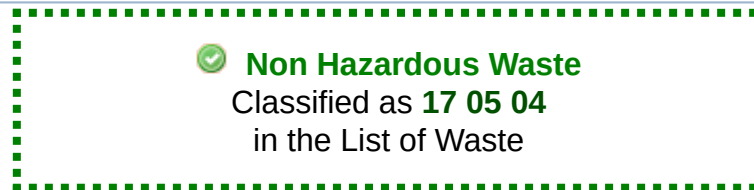
Report

Created by: Peter Dunn

Created date: 24 Mar 2026 16:40 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	67
Appendix B: Rationale for selection of metal species	71
Appendix C: Version	71

Classification of sample: TP101/0.15-0.30/2026-02-18



Sample details

Sample name:	LoW Code:
TP101/0.15-0.30/2026-02-18	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
16% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				11.4 pH		11.4 pH	11.4 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.05 mg/kg		0.042 mg/kg	0.0000042 %		✓	
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	9.7 mg/kg		8.148 mg/kg	0.000815 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				48 mg/kg	1.252	50.472 mg/kg	0.00505 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				40 mg/kg	1.273	42.759 mg/kg	0.00428 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	13 mg/kg		10.92 mg/kg	0.00109 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				67 mg/kg	1.785	100.47 mg/kg	0.01 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				62 mg/kg	1.245	64.825 mg/kg	0.00648 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		0.06 mg/kg		0.0504 mg/kg	0.00000504 %	✓	
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.13 mg/kg		0.109 mg/kg	0.0000109 %	✓	
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.16 mg/kg		0.134 mg/kg	0.0000134 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.17 mg/kg		0.143 mg/kg	0.0000143 %	✓	
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.07 mg/kg		0.0588 mg/kg	0.00000588 %	✓	
19	benzo[ghi]perylene	205-883-8	191-24-2		0.08 mg/kg		0.0672 mg/kg	0.00000672 %	✓	
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.16 mg/kg		0.134 mg/kg	0.0000134 %	✓	
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene	205-912-4	206-44-0		0.42 mg/kg		0.353 mg/kg	0.0000353 %	✓	
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.06 mg/kg		0.0504 mg/kg	0.00000504 %	✓	
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	phenanthrene	201-581-5	85-01-8		0.34 mg/kg		0.286 mg/kg	0.0000286 %	✓	
27	pyrene	204-927-3	129-00-0		0.38 mg/kg		0.319 mg/kg	0.0000319 %	✓	
28	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		20 mg/kg	1.462	24.554 mg/kg	0.00246 %	✓	
Total:								0.0304 %		

Key

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

Classification of sample: TP102/0.20-0.50/2026-02-18

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

Sample details

Sample name:	LoW Code:
TP102/0.20-0.50/2026-02-18	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
6.3%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)	

Hazard properties

None identified

Determinands

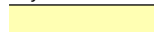
Moisture content: 6.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.7 pH		8.7 pH	8.7 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	7.8 mg/kg		7.309 mg/kg	0.000731 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.3 mg/kg		0.281 mg/kg	0.0000281 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				17 mg/kg	1.252	19.94 mg/kg	0.00199 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				13 mg/kg	1.273	15.501 mg/kg	0.00155 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	60 mg/kg		56.22 mg/kg	0.00562 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				18 mg/kg	1.785	30.109 mg/kg	0.00301 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				43 mg/kg	1.245	50.151 mg/kg	0.00502 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.06 mg/kg		0.0562 mg/kg	0.00000562 %	✓	
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.06 mg/kg		0.0562 mg/kg	0.00000562 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.09 mg/kg		0.0843 mg/kg	0.00000843 %	✓	
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		0.05 mg/kg		0.0469 mg/kg	0.00000469 %	✓	
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.08 mg/kg		0.075 mg/kg	0.0000075 %	✓	
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene	205-912-4	206-44-0		0.14 mg/kg		0.131 mg/kg	0.0000131 %	✓	
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.03 mg/kg		0.0281 mg/kg	0.00000281 %	✓	
25	naphthalene	601-052-00-2	202-049-5	91-20-3	0.03 mg/kg		0.0281 mg/kg	0.00000281 %	✓	
26	phenanthrene	201-581-5	85-01-8		0.16 mg/kg		0.15 mg/kg	0.000015 %	✓	
27	pyrene	204-927-3	129-00-0		0.16 mg/kg		0.15 mg/kg	0.000015 %	✓	
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	0.2 mg/kg	3.22	0.603 mg/kg	0.0000603 %	✓	
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
30	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
31	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.007 %		0.0065 %	0.00656 %	✓	
32	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
33	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
38		chromium in Cr(III) compounds {  chromium(III) oxide }				12 mg/kg	1.462	16.434 mg/kg	0.00164 %	✓	
		215-160-9	1308-38-9								
Total:									0.0263 %		

Key

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

Classification of sample: TP103/0.15-0.80/2026-02-18

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

Sample details

Sample name:	LoW Code:
TP103/0.15-0.80/2026-02-18	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.4% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.4% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
2	 pH			PH	8.8 pH		8.8 pH	8.8 pH			
3	 mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }	080-002-00-6			1.3 mg/kg		1.191 mg/kg	0.000119 %		✓	
4	 arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			9.8 mg/kg		8.977 mg/kg	0.000898 %		✓	
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]	0.2 mg/kg		0.183 mg/kg	0.0000183 %		✓	
6	 copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0	24 mg/kg	1.252	27.519 mg/kg	0.00275 %		✓	
7	 nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]	22 mg/kg	1.273	25.645 mg/kg	0.00256 %		✓	
8	 lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			74 mg/kg		67.784 mg/kg	0.00678 %		✓	
9	 selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }	034-002-00-8			<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
10	 vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	30 mg/kg	1.785	49.057 mg/kg	0.00491 %		✓	
11	 zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2	93 mg/kg	1.245	106.035 mg/kg	0.0106 %		✓	
12	 acenaphthene		201-469-6	83-32-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
13	 acenaphthylene		205-917-1	208-96-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.11 mg/kg		0.101 mg/kg	0.0000101 %	✓	
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.13 mg/kg		0.119 mg/kg	0.0000119 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.17 mg/kg		0.156 mg/kg	0.0000156 %	✓	
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.05 mg/kg		0.0458 mg/kg	0.00000458 %	✓	
19	benzo[ghi]perylene		205-883-8	191-24-2	0.07 mg/kg		0.0641 mg/kg	0.00000641 %	✓	
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.12 mg/kg		0.11 mg/kg	0.000011 %	✓	
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene		205-912-4	206-44-0	0.3 mg/kg		0.275 mg/kg	0.0000275 %	✓	
23	fluorene		201-695-5	86-73-7	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene		205-893-2	193-39-5	0.05 mg/kg		0.0458 mg/kg	0.00000458 %	✓	
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	phenanthrene		201-581-5	85-01-8	0.14 mg/kg		0.128 mg/kg	0.0000128 %	✓	
27	pyrene		204-927-3	129-00-0	0.27 mg/kg		0.247 mg/kg	0.0000247 %	✓	
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	0.6 mg/kg	3.22	1.77 mg/kg	0.000177 %	✓	
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			0.3 mg/kg	1.884	0.518 mg/kg	0.0000518 %	✓	
30	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
31	asbestos	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5	0.002 %		0.0018 %	0.00183 %	✓	
32	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
33	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	TPH (C6 to C40) petroleum group		TPH		14 mg/kg		12.824 mg/kg	0.00128 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		34 mg/kg	1.462	45.519 mg/kg	0.00455 %	✓	
Total:								0.0367 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the concentration of: 1000 mg/kg (0.1%) because: Concentrations at less than 1.0% are "unlikely to be flammable". Flammability of soils is unlikely to result in a hazardous classification in soils (AGS Waste Classification – A Practitioner's Guide).

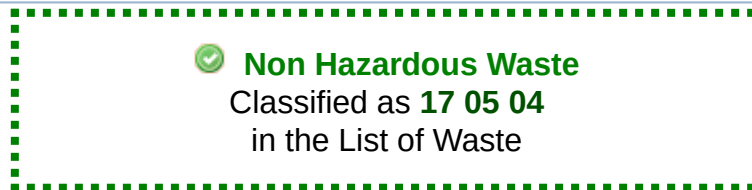
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00128%)

Classification of sample: TP104/0.10-0.60/2026-02-19



Sample details

Sample name:	LoW Code:
TP104/0.10-0.60/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.1% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 2.1% Wet Weight Moisture Correction applied (MC)

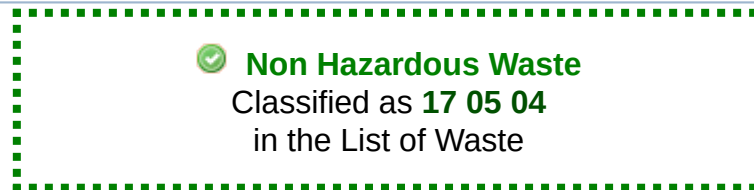
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
2	pH				9.4 pH		9.4 pH	9.4 pH		
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	080-002-00-6									
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	1.2 mg/kg		1.175 mg/kg	0.000117 %	✓	
	033-002-00-5									
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.3 mg/kg		0.294 mg/kg	0.0000294 %	✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]							
6	copper { copper(II) oxide }				4.2 mg/kg	1.252	5.147 mg/kg	0.000515 %	✓	
	029-016-00-6	215-269-1	1317-38-0							
7	nickel { nickel(II) oxide (nickel monoxide) }				3.1 mg/kg	1.273	3.862 mg/kg	0.000386 %	✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]							
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	6 mg/kg		5.874 mg/kg	0.000587 %	✓	
	082-001-00-6									
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				5.2 mg/kg	1.785	9.088 mg/kg	0.000909 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
11	zinc { zinc oxide }				12 mg/kg	1.245	14.623 mg/kg	0.00146 %	✓	
	030-013-00-7	215-222-5	1314-13-2							
12	acenaphthene				2 mg/kg		1.958 mg/kg	0.000196 %	✓	
		201-469-6	83-32-9							
13	acenaphthylene				0.07 mg/kg		0.0685 mg/kg	0.0000685 %	✓	
		205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		2.8 mg/kg		2.741 mg/kg	0.000274 %	✓	
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	2 mg/kg		1.958 mg/kg	0.000196 %	✓	
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	2.6 mg/kg		2.545 mg/kg	0.000255 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.5 mg/kg		2.448 mg/kg	0.000245 %	✓	
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	1 mg/kg		0.979 mg/kg	0.0000979 %	✓	
19	benzo[ghi]perylene	205-883-8	191-24-2		0.99 mg/kg		0.969 mg/kg	0.0000969 %	✓	
20	chrysene	601-048-00-0	205-923-4	218-01-9	2.1 mg/kg		2.056 mg/kg	0.000206 %	✓	
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.21 mg/kg		0.206 mg/kg	0.0000206 %	✓	
22	fluoranthene	205-912-4	206-44-0		8.7 mg/kg		8.517 mg/kg	0.000852 %	✓	
23	fluorene	201-695-5	86-73-7		1.7 mg/kg		1.664 mg/kg	0.000166 %	✓	
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.81 mg/kg		0.793 mg/kg	0.0000793 %	✓	
25	naphthalene	601-052-00-2	202-049-5	91-20-3	0.17 mg/kg		0.166 mg/kg	0.0000166 %	✓	
26	phenanthrene	201-581-5	85-01-8		14 mg/kg		13.706 mg/kg	0.00137 %	✓	
27	pyrene	204-927-3	129-00-0		7.2 mg/kg		7.049 mg/kg	0.000705 %	✓	
28	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		4.4 mg/kg	1.462	6.296 mg/kg	0.00063 %	✓	
Total:								0.00942 %		

Key

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

Classification of sample: TP105/0.10-0.50/2026-02-19



Sample details

Sample name:	LoW Code:
TP105/0.10-0.50/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
11% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

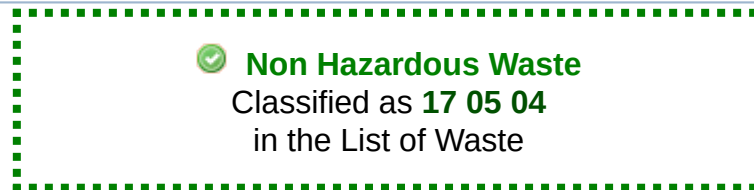
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				10.8 pH		10.8 pH	10.8 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	6.5 mg/kg		5.785 mg/kg	0.000579 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				10 mg/kg	1.252	11.141 mg/kg	0.00111 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				8.3 mg/kg	1.273	9.401 mg/kg	0.00094 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	18 mg/kg		16.02 mg/kg	0.0016 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				16 mg/kg	1.785	25.421 mg/kg	0.00254 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				26 mg/kg	1.245	28.803 mg/kg	0.00288 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				0.05 mg/kg		0.0445 mg/kg	0.00000445 %		✓	
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		0.56 mg/kg		0.498 mg/kg	0.0000498 %	✓	
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	1.9 mg/kg		1.691 mg/kg	0.000169 %	✓	
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	1.8 mg/kg		1.602 mg/kg	0.00016 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.6 mg/kg		1.424 mg/kg	0.000142 %	✓	
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.29 mg/kg		0.258 mg/kg	0.0000258 %	✓	
19	benzo[ghi]perylene	205-883-8	191-24-2		1 mg/kg		0.89 mg/kg	0.000089 %	✓	
20	chrysene	601-048-00-0	205-923-4	218-01-9	1.7 mg/kg		1.513 mg/kg	0.000151 %	✓	
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.22 mg/kg		0.196 mg/kg	0.0000196 %	✓	
22	fluoranthene	205-912-4	206-44-0		0.72 mg/kg		0.641 mg/kg	0.0000641 %	✓	
23	fluorene	201-695-5	86-73-7		0.09 mg/kg		0.0801 mg/kg	0.00000801 %	✓	
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.38 mg/kg		0.338 mg/kg	0.0000338 %	✓	
25	naphthalene	601-052-00-2	202-049-5	91-20-3	0.03 mg/kg		0.0267 mg/kg	0.00000267 %	✓	
26	phenanthrene	201-581-5	85-01-8		0.71 mg/kg		0.632 mg/kg	0.0000632 %	✓	
27	pyrene	204-927-3	129-00-0		1.5 mg/kg		1.335 mg/kg	0.000133 %	✓	
28	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		12 mg/kg	1.462	15.609 mg/kg	0.00156 %	✓	
Total:								0.0123 %		

Key

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

Classification of sample: TP106/0.20-1.20/2026-02-19



Sample details

Sample name:	LoW Code:
TP106/0.20-1.20/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
13% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

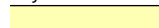
Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.3 pH		8.3 pH	8.3 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.05 mg/kg		0.0435 mg/kg	0.00000435 %	✓		
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	9.3 mg/kg		8.091 mg/kg	0.000809 %	✓		
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				22 mg/kg	1.252	23.959 mg/kg	0.0024 %	✓		
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				13 mg/kg	1.273	14.393 mg/kg	0.00144 %	✓		
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	37 mg/kg		32.19 mg/kg	0.00322 %	✓		
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				21 mg/kg	1.785	32.615 mg/kg	0.00326 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				34 mg/kg	1.245	36.819 mg/kg	0.00368 %	✓		
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.06 mg/kg		0.0522 mg/kg	0.00000522 %	✓	
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.09 mg/kg		0.0783 mg/kg	0.00000783 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.08 mg/kg		0.0696 mg/kg	0.00000696 %	✓	
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.03 mg/kg		0.0261 mg/kg	0.00000261 %	✓	
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.08 mg/kg		0.0696 mg/kg	0.00000696 %	✓	
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene	205-912-4	206-44-0		0.28 mg/kg		0.244 mg/kg	0.0000244 %	✓	
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	phenanthrene	201-581-5	85-01-8		0.06 mg/kg		0.0522 mg/kg	0.00000522 %	✓	
27	pyrene	204-927-3	129-00-0		0.23 mg/kg		0.2 mg/kg	0.00002 %	✓	
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	0.5 mg/kg	3.22	1.401 mg/kg	0.00014 %	✓	
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			0.2 mg/kg	1.884	0.328 mg/kg	0.0000328 %	✓	
30	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
31	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
32	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
37	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		12 mg/kg	1.462	15.259 mg/kg	0.00153 %	✓	
Total:								0.0166 %		

Key

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

Classification of sample: TP107/0.10-0.80/2026-02-19

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

Sample details

Sample name:	LoW Code:
TP107/0.10-0.80/2026-02-19	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
2	 pH			PH	8.4 pH		8.4 pH	8.4 pH			
3	 mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }	080-002-00-6			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	 arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			6.1 mg/kg		5.49 mg/kg	0.000549 %		✓	
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]	0.2 mg/kg		0.18 mg/kg	0.000018 %		✓	
6	 copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0	14 mg/kg	1.252	15.772 mg/kg	0.00158 %		✓	
7	 nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]	19 mg/kg	1.273	21.761 mg/kg	0.00218 %		✓	
8	 lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			16 mg/kg		14.4 mg/kg	0.00144 %		✓	
9	 selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }	034-002-00-8			<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
10	 vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	24 mg/kg	1.785	38.56 mg/kg	0.00386 %		✓	
11	 zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2	55 mg/kg	1.245	61.613 mg/kg	0.00616 %		✓	
12	 acenaphthene		201-469-6	83-32-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
13	 acenaphthylene		205-917-1	208-96-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD

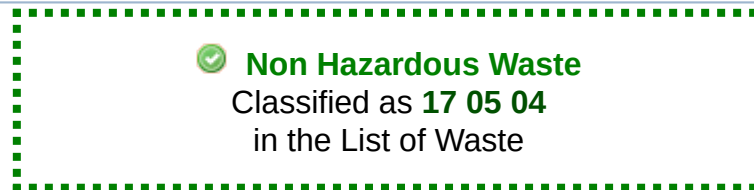
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.05 mg/kg		0.045 mg/kg	0.0000045 %	✓		
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.07 mg/kg		0.063 mg/kg	0.0000063 %	✓		
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.07 mg/kg		0.063 mg/kg	0.0000063 %	✓		
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
19	benzo[ghi]perylene		205-883-8	191-24-2	0.03 mg/kg		0.027 mg/kg	0.0000027 %	✓		
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.06 mg/kg		0.054 mg/kg	0.0000054 %	✓		
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	fluoranthene		205-912-4	206-44-0	0.17 mg/kg		0.153 mg/kg	0.0000153 %	✓		
23	fluorene		201-695-5	86-73-7	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
24	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	phenanthrene		201-581-5	85-01-8	0.09 mg/kg		0.081 mg/kg	0.0000081 %	✓		
27	pyrene		204-927-3	129-00-0	0.17 mg/kg		0.153 mg/kg	0.0000153 %	✓		
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	0.3 mg/kg	3.22	0.869 mg/kg	0.0000869 %	✓		
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %			<LOD
30	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
31	asbestos	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5	0.011 %		0.0099 %	0.0099 %	✓		
32	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
33	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
34	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
35	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
36	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
37	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	chromium in Cr(III) compounds { chromium(III) oxide }				16 mg/kg	1.462	21.046 mg/kg	0.0021 %	✓	
		215-160-9	1308-38-9							
Total:								0.0279 %		

Key

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

Classification of sample: TP108/0.00-1.80/2026-02-19



Sample details

Sample name:	LoW Code:
TP108/0.00-1.80/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
8.5% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

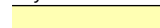
Determinands

Moisture content: 8.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.4 pH		8.4 pH	8.4 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	8.2 mg/kg		7.503 mg/kg	0.00075 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.2 mg/kg		0.183 mg/kg	0.0000183 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				18 mg/kg	1.252	20.617 mg/kg	0.00206 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				16 mg/kg	1.273	18.631 mg/kg	0.00186 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	20 mg/kg		18.3 mg/kg	0.00183 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				20 mg/kg	1.785	32.669 mg/kg	0.00327 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				46 mg/kg	1.245	52.39 mg/kg	0.00524 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene	205-912-4	206-44-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene	204-927-3	129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	<0.2 mg/kg	3.22	<0.644 mg/kg	<0.0000644 %		<LOD
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
30	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
31	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
32	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
37	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		15 mg/kg	1.462	20.06 mg/kg	0.00201 %	✓	
Total:								0.017 %		

Key

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

Classification of sample: TP109/0.00-0.50/2026-02-19

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

Sample details

Sample name:	LoW Code:
TP109/0.00-0.50/2026-02-19	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.4% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.4% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
2	 pH			PH	8.1 pH		8.1 pH	8.1 pH			
3	 mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }	080-002-00-6			0.07 mg/kg		0.0634 mg/kg	0.00000634 %	✓		
4	 arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			14 mg/kg		12.684 mg/kg	0.00127 %	✓		
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]	0.2 mg/kg		0.181 mg/kg	0.0000181 %	✓		
6	 copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0	22 mg/kg	1.252	24.95 mg/kg	0.0025 %	✓		
7	 nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]	20 mg/kg	1.273	23.059 mg/kg	0.00231 %	✓		
8	 lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			32 mg/kg		28.992 mg/kg	0.0029 %	✓		
9	 selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }	034-002-00-8			<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
10	 vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	27 mg/kg	1.785	43.669 mg/kg	0.00437 %	✓		
11	 zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2	61 mg/kg	1.245	68.79 mg/kg	0.00688 %	✓		
12	 acenaphthene		201-469-6	83-32-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
13	 acenaphthylene		205-917-1	208-96-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.04 mg/kg		0.0362 mg/kg	0.00000362 %	✓		
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.04 mg/kg		0.0362 mg/kg	0.00000362 %	✓		
17	benzo[b]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.06 mg/kg		0.0544 mg/kg	0.00000544 %	✓		
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		0.03 mg/kg		0.0272 mg/kg	0.00000272 %	✓		
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.05 mg/kg		0.0453 mg/kg	0.00000453 %	✓		
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.12 mg/kg		0.109 mg/kg	0.0000109 %	✓		
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	phenanthrene	201-581-5	85-01-8		0.06 mg/kg		0.0544 mg/kg	0.00000544 %	✓		
27	pyrene	204-927-3	129-00-0		0.11 mg/kg		0.0997 mg/kg	0.00000997 %	✓		
28	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		17 mg/kg	1.462	22.511 mg/kg	0.00225 %	✓		
Total:									0.0225 %		

Key

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

Classification of sample: TP109/0.50-1.30/2026-02-19

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

Sample details

Sample name:	LoW Code:
TP109/0.50-1.30/2026-02-19	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11% (wet weight correction)	

Hazard properties

None identified

Determinands

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

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<LOD	
		024-001-00-0	215-607-8	1333-82-0								
2		pH				7.5 pH		7.5 pH	7.5 pH			
				PH								
3		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.08 mg/kg		0.0712 mg/kg	0.00000712 %	✓		
		080-002-00-6										
4		arsenic {  arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	11 mg/kg		9.79 mg/kg	0.000979 %	✓		
		033-002-00-5										
5		cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.2 mg/kg		0.178 mg/kg	0.0000178 %	✓		
		048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6		copper { copper(II) oxide }				18 mg/kg	1.252	20.053 mg/kg	0.00201 %	✓		
		029-016-00-6	215-269-1	1317-38-0								
7		nickel { nickel(II) oxide (nickel monoxide) }				16 mg/kg	1.273	18.122 mg/kg	0.00181 %	✓		
		028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8		lead {  lead compounds with the exception of those specified elsewhere in this Annex }			1	37 mg/kg		32.93 mg/kg	0.00329 %	✓		
		082-001-00-6										
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD	
		034-002-00-8										
10		vanadium { divanadium pentaoxide; vanadium pentoxide }				22 mg/kg	1.785	34.954 mg/kg	0.0035 %	✓		
		023-001-00-8	215-239-8	1314-62-1								
11		zinc { zinc oxide }				52 mg/kg	1.245	57.605 mg/kg	0.00576 %	✓		
		030-013-00-7	215-222-5	1314-13-2								
12		acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			201-469-6	83-32-9								
13		acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
19	benzo[ghi]perylene		205-883-8	191-24-2	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	fluoranthene		205-912-4	206-44-0	0.05 mg/kg		0.0445 mg/kg	0.00000445 %	✓		
23	fluorene		201-695-5	86-73-7	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
24	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	phenanthrene		201-581-5	85-01-8	0.03 mg/kg		0.0267 mg/kg	0.00000267 %	✓		
27	pyrene		204-927-3	129-00-0	0.05 mg/kg		0.0445 mg/kg	0.00000445 %	✓		
28	asbestos	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5	<0.001 %		<0.001 %	<0.001 %			<LOD
29	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		15 mg/kg	1.462	19.512 mg/kg	0.00195 %	✓		
Total:									0.0193 %		

Key

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

Classification of sample: TP110/0.15-0.65/2026-02-19

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP110/0.15-0.65/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
6.5%	Entry:
(wet weight correction)	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH (conc.: 12 pH)

Determinands

Moisture content: 6.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
2	pH		PH		12 pH		12 pH	12pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }	080-002-00-6			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			4.8 mg/kg		4.488 mg/kg	0.000449 %	✓		
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]	0.1 mg/kg		0.0935 mg/kg	0.0000935 %	✓		
6	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0	8.9 mg/kg	1.252	10.417 mg/kg	0.00104 %	✓		
7	nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]	7.4 mg/kg	1.273	8.805 mg/kg	0.000881 %	✓		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			12 mg/kg		11.22 mg/kg	0.00112 %	✓		
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
10	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	11 mg/kg	1.785	18.361 mg/kg	0.00184 %	✓		

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
11		zinc {  zinc oxide }				32 mg/kg	1.245	37.242 mg/kg	0.00372 %	✓		
		030-013-00-7	215-222-5	1314-13-2								
12		acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			201-469-6	83-32-9								
13		acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			205-917-1	208-96-8								
14		anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			204-371-1	120-12-7								
15		benzo[a]pyrene; benzo[def]chrysene				0.07 mg/kg		0.0655 mg/kg	0.00000655 %	✓		
		601-032-00-3	200-028-5	50-32-8								
16		benzo[a]anthracene				0.08 mg/kg		0.0748 mg/kg	0.00000748 %	✓		
		601-033-00-9	200-280-6	56-55-3								
17		benzo[b]fluoranthene				0.09 mg/kg		0.0841 mg/kg	0.00000841 %	✓		
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9								
18		benzo[k]fluoranthene				0.03 mg/kg		0.0281 mg/kg	0.00000281 %	✓		
		601-036-00-5	205-916-6	207-08-9								
19		benzo[ghi]perylene				0.04 mg/kg		0.0374 mg/kg	0.00000374 %	✓		
			205-883-8	191-24-2								
20		chrysene				0.07 mg/kg		0.0655 mg/kg	0.00000655 %	✓		
		601-048-00-0	205-923-4	218-01-9								
21		dibenz[a,h]anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
		601-041-00-2	200-181-8	53-70-3								
22		fluoranthene				0.12 mg/kg		0.112 mg/kg	0.0000112 %	✓		
			205-912-4	206-44-0								
23		fluorene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
			201-695-5	86-73-7								
24		indeno[123-cd]pyrene				0.03 mg/kg		0.0281 mg/kg	0.00000281 %	✓		
			205-893-2	193-39-5								
25		naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
		601-052-00-2	202-049-5	91-20-3								
26		phenanthrene				0.05 mg/kg		0.0467 mg/kg	0.00000467 %	✓		
			201-581-5	85-01-8								
27		pyrene				0.12 mg/kg		0.112 mg/kg	0.0000112 %	✓		
			204-927-3	129-00-0								
28		boron {  diboron trioxide }				0.3 mg/kg	3.22	0.903 mg/kg	0.0000903 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
29		cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD	
		006-007-00-5										
30		monohydric phenols				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD	
				P1186								
31		benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
32		ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4								
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
34		toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
35		xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
36		TPH (C6 to C40) petroleum group				930 mg/kg		869.55 mg/kg	0.087 %	✓		
				TPH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
37	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		9.2 mg/kg	1.462	12.572 mg/kg	0.00126 %	✓	
Total:								0.0974 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the concentration of: 1000 mg/kg (0.1%) because: Concentrations at less than 1.0% are "unlikely to be flammable". Flammability of soils is unlikely to result in a hazardous classification in soils (AGS Waste Classification – A Practitioner's Guide).

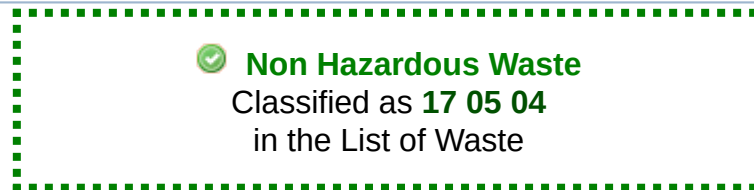
Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.087%)

Classification of sample: WS101/0.10-0.15/2026-02-18



Sample details

Sample name:	LoW Code:
WS101/0.10-0.15/2026-02-18	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
8.1%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)	Entry:

Hazard properties

None identified

Determinands

Moisture content: 8.1% Wet Weight Moisture Correction applied (MC)

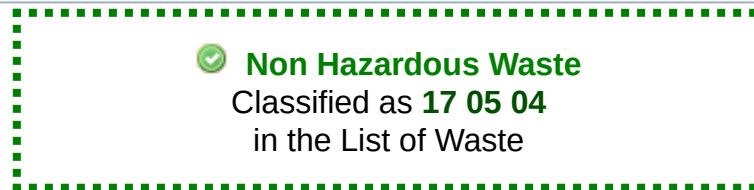
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.8 pH		8.8 pH	8.8 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.09 mg/kg		0.0827 mg/kg	0.00000827 %	✓		
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	3.7 mg/kg		3.4 mg/kg	0.00034 %	✓		
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.2 mg/kg		0.184 mg/kg	0.0000184 %	✓		
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				14 mg/kg	1.252	16.105 mg/kg	0.00161 %	✓		
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				8 mg/kg	1.273	9.356 mg/kg	0.000936 %	✓		
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	91 mg/kg		83.629 mg/kg	0.00836 %	✓		
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				13 mg/kg	1.785	21.328 mg/kg	0.00213 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				39 mg/kg	1.245	44.612 mg/kg	0.00446 %	✓		
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				0.24 mg/kg		0.221 mg/kg	0.0000221 %	✓		
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		0.53 mg/kg		0.487 mg/kg	0.0000487 %	✓	
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.55 mg/kg		0.505 mg/kg	0.0000505 %	✓	
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.76 mg/kg		0.698 mg/kg	0.0000698 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.66 mg/kg		0.607 mg/kg	0.0000607 %	✓	
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.24 mg/kg		0.221 mg/kg	0.0000221 %	✓	
19	benzo[ghi]perylene	205-883-8	191-24-2		0.11 mg/kg		0.101 mg/kg	0.0000101 %	✓	
20	chrysene	601-048-00-0	205-923-4	218-01-9	0.66 mg/kg		0.607 mg/kg	0.0000607 %	✓	
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene	205-912-4	206-44-0		2.6 mg/kg		2.389 mg/kg	0.000239 %	✓	
23	fluorene	201-695-5	86-73-7		0.22 mg/kg		0.202 mg/kg	0.0000202 %	✓	
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.1 mg/kg		0.0919 mg/kg	0.00000919 %	✓	
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	phenanthrene	201-581-5	85-01-8		2.6 mg/kg		2.389 mg/kg	0.000239 %	✓	
27	pyrene	204-927-3	129-00-0		2.2 mg/kg		2.022 mg/kg	0.000202 %	✓	
28	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		9.1 mg/kg	1.462	12.223 mg/kg	0.00122 %	✓	
Total:								0.0201 %		

Key

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

Classification of sample: WS102/0.20-0.25/2026-02-18



Sample details

Sample name:	LoW Code:
WS102/0.20-0.25/2026-02-18	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.3%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)	Entry:

Hazard properties

None identified

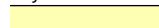
Determinands

Moisture content: 2.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				9 pH		9 pH	9pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	1.6 mg/kg		1.563 mg/kg	0.000156 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.2 mg/kg		0.195 mg/kg	0.0000195 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				9.8 mg/kg	1.252	11.985 mg/kg	0.0012 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				5.4 mg/kg	1.273	6.714 mg/kg	0.000671 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	12 mg/kg		11.724 mg/kg	0.00117 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				5.3 mg/kg	1.785	9.244 mg/kg	0.000924 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				17 mg/kg	1.245	20.673 mg/kg	0.00207 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.03 mg/kg		0.0293 mg/kg	0.00000293 %	✓		
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	phenanthrene	201-581-5	85-01-8		0.04 mg/kg		0.0391 mg/kg	0.00000391 %	✓		
27	pyrene	204-927-3	129-00-0		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	<0.2 mg/kg	3.22	<0.644 mg/kg	<0.0000644 %			<LOD
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %			<LOD
30	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
31	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
32	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
34	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
36	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		5.8 mg/kg	1.462	8.282 mg/kg	0.000828 %	✓		
Total:									0.00704 %		

Key

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

Classification of sample: WS103/0.30-0.35/2026-02-18

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

Sample details

Sample name:	LoW Code:
WS103/0.30-0.35/2026-02-18	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.1% (wet weight correction)	

Hazard properties

None identified

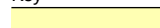
Determinands

Moisture content: 7.1% Wet Weight Moisture Correction applied (MC)

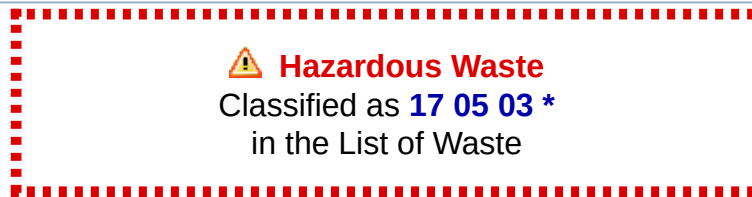
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<LOD
2	 pH			PH	8 pH		8 pH	8pH		
3	 mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }	080-002-00-6			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	 arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			27 mg/kg		25.083 mg/kg	0.00251 %	✓	
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]	0.1 mg/kg		0.0929 mg/kg	0.00000929 %	✓	
6	 copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0	16 mg/kg	1.252	18.606 mg/kg	0.00186 %	✓	
7	 nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]	20 mg/kg	1.273	23.645 mg/kg	0.00236 %	✓	
8	 lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			19 mg/kg		17.651 mg/kg	0.00177 %	✓	
9	 selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }	034-002-00-8			<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
10	 vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	31 mg/kg	1.785	51.412 mg/kg	0.00514 %	✓	
11	 zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2	50 mg/kg	1.245	57.817 mg/kg	0.00578 %	✓	
12	 acenaphthene		201-469-6	83-32-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
13	 acenaphthylene		205-917-1	208-96-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[ghi]perylene		205-883-8	191-24-2	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene		205-912-4	206-44-0	0.03 mg/kg		0.0279 mg/kg	0.00000279 %	✓	
23	fluorene		201-695-5	86-73-7	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	phenanthrene		201-581-5	85-01-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	pyrene		204-927-3	129-00-0	0.03 mg/kg		0.0279 mg/kg	0.00000279 %	✓	
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	0.7 mg/kg	3.22	2.094 mg/kg	0.000209 %	✓	
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<0.1 mg/kg	1.884	<0.188 mg/kg	<0.0000188 %		<LOD
30	monohydric phenols		P1186		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
31	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
32	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	chromium in Cr(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9	22 mg/kg	1.462	29.871 mg/kg	0.00299 %	✓	
Total:								0.0226 %		

Key

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

Classification of sample: WS104/0.28-0.63/2026-02-18



Sample details

Sample name:	LoW Code:
WS104/0.28-0.63/2026-02-18	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
11% (wet weight correction)	

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH (conc.: 11.6 pH)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %	<LOD		
2	pH				11.6 pH		11.6 pH	11.6 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }	080-002-00-6			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %	<LOD		
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			4.9 mg/kg		4.361 mg/kg	0.000436 %	✓		
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %	<LOD		
6	copper { copper(II) oxide }	029-016-00-6	215-269-1	1317-38-0	6.7 mg/kg	1.252	7.464 mg/kg	0.000746 %	✓		
7	nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]	3 mg/kg	1.273	3.398 mg/kg	0.00034 %	✓		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			6.9 mg/kg		6.141 mg/kg	0.000614 %	✓		
9	selenium { selenium compounds with the exception of cadmium selenosulfide and those specified elsewhere in this Annex }	034-002-00-8			<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %	<LOD		
10	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	8.1 mg/kg	1.785	12.869 mg/kg	0.00129 %	✓		

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
11		zinc { zinc oxide }				23 mg/kg	1.245	25.479 mg/kg	0.00255 %	✓	
		030-013-00-7	215-222-5	1314-13-2							
12		acenaphthene				0.07 mg/kg		0.0623 mg/kg	0.00000623 %	✓	
			201-469-6	83-32-9							
13		acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
			205-917-1	208-96-8							
14		anthracene				0.1 mg/kg		0.089 mg/kg	0.0000089 %	✓	
			204-371-1	120-12-7							
15		benzo[a]pyrene; benzo[def]chrysene				0.32 mg/kg		0.285 mg/kg	0.0000285 %	✓	
		601-032-00-3	200-028-5	50-32-8							
16		benzo[a]anthracene				0.38 mg/kg		0.338 mg/kg	0.0000338 %	✓	
		601-033-00-9	200-280-6	56-55-3							
17		benzo[bk]fluoranthene				0.41 mg/kg		0.365 mg/kg	0.0000365 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
18		benzo[k]fluoranthene				0.16 mg/kg		0.142 mg/kg	0.0000142 %	✓	
		601-036-00-5	205-916-6	207-08-9							
19		benzo[ghi]perylene				0.07 mg/kg		0.0623 mg/kg	0.00000623 %	✓	
			205-883-8	191-24-2							
20		chrysene				0.39 mg/kg		0.347 mg/kg	0.0000347 %	✓	
		601-048-00-0	205-923-4	218-01-9							
21		dibenz[a,h]anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
22		fluoranthene				1.2 mg/kg		1.068 mg/kg	0.000107 %	✓	
			205-912-4	206-44-0							
23		fluorene				0.05 mg/kg		0.0445 mg/kg	0.00000445 %	✓	
			201-695-5	86-73-7							
24		indeno[123-cd]pyrene				0.07 mg/kg		0.0623 mg/kg	0.00000623 %	✓	
			205-893-2	193-39-5							
25		naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		601-052-00-2	202-049-5	91-20-3							
26		phenanthrene				0.44 mg/kg		0.392 mg/kg	0.0000392 %	✓	
			201-581-5	85-01-8							
27		pyrene				1.1 mg/kg		0.979 mg/kg	0.0000979 %	✓	
			204-927-3	129-00-0							
28		asbestos				<0.001 %		<0.001 %	<0.001 %		<LOD
		650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
29		chromium in Cr(III) compounds {  chromium(III) oxide }				3.6 mg/kg	1.462	4.683 mg/kg	0.000468 %	✓	
			215-160-9	1308-38-9							
Total:									0.00686 %		

Key

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

Classification of sample: WS105/0.08-0.48/2026-02-18

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

Sample details

Sample name:	LoW Code:
WS105/0.08-0.48/2026-02-18	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
7.5%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.5% Wet Weight Moisture Correction applied (MC)

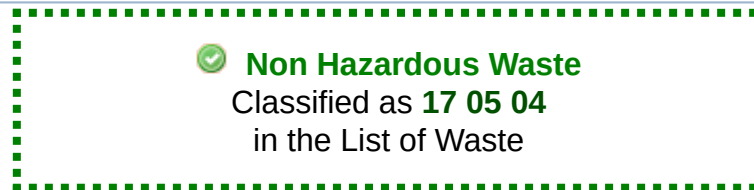
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.6 pH		8.6 pH	8.6 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.55 mg/kg		0.509 mg/kg	0.0000509 %		✓	
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	7.3 mg/kg		6.753 mg/kg	0.000675 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.3 mg/kg		0.278 mg/kg	0.0000278 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				45 mg/kg	1.252	52.105 mg/kg	0.00521 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				19 mg/kg	1.273	22.366 mg/kg	0.00224 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	38 mg/kg		35.15 mg/kg	0.00352 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				21 mg/kg	1.785	34.677 mg/kg	0.00347 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				75 mg/kg	1.245	86.352 mg/kg	0.00864 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.04 mg/kg		0.037 mg/kg	0.0000037 %	✓		
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	phenanthrene	201-581-5	85-01-8		0.04 mg/kg		0.037 mg/kg	0.0000037 %	✓		
27	pyrene	204-927-3	129-00-0		0.04 mg/kg		0.037 mg/kg	0.0000037 %	✓		
28	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 %		<0.001 %	<0.001 %			<LOD
29	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		16 mg/kg	1.462	21.631 mg/kg	0.00216 %	✓		
Total:									0.026 %		

Key

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

Classification of sample: WS106/0.10-0.15/2026-02-19



Sample details

Sample name:	LoW Code:
WS106/0.10-0.15/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.1%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)	Entry:

Hazard properties

None identified

Determinands

Moisture content: 4.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH		PH		10.8 pH		10.8 pH	10.8 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.05 mg/kg		0.048 mg/kg	0.0000048 %		✓	
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	6.6 mg/kg		6.329 mg/kg	0.000633 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.2 mg/kg		0.192 mg/kg	0.0000192 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				18 mg/kg	1.252	21.608 mg/kg	0.00216 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				11 mg/kg	1.273	13.425 mg/kg	0.00134 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	18 mg/kg		17.262 mg/kg	0.00173 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	zinc { zinc oxide }				39 mg/kg	1.245	46.554 mg/kg	0.00466 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
11	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
12	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
13	anthracene				0.3 mg/kg		0.288 mg/kg	0.0000288 %		✓	
		204-371-1	120-12-7								

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used										
		EU CLP index number	EC Number	CAS Number																	
14		benzo[a]pyrene; benzo[def]chrysene				1	mg/kg	0.959	mg/kg	0.0000959 %	✓										
		601-032-00-3	200-028-5	50-32-8																	
15		benzo[a]anthracene				1.1	mg/kg		1.055	mg/kg	0.000105 %	✓									
		601-033-00-9	200-280-6	56-55-3																	
16	■	benzo[bk]fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD								
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9																	
17		benzo[k]fluoranthene				0.19	mg/kg		0.182	mg/kg	0.0000182 %	✓									
		601-036-00-5	205-916-6	207-08-9																	
18	■	benzo[ghi]perylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD								
			205-883-8	191-24-2																	
19		chrysene				0.76	mg/kg		0.729	mg/kg	0.0000729 %	✓									
		601-048-00-0	205-923-4	218-01-9																	
20		dibenz[a,h]anthracene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD								
		601-041-00-2	200-181-8	53-70-3																	
21	■	fluoranthene				0.7	mg/kg		0.671	mg/kg	0.0000671 %	✓									
			205-912-4	206-44-0																	
22	■	fluorene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD								
			201-695-5	86-73-7																	
23	■	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD								
			205-893-2	193-39-5																	
24		naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD								
		601-052-00-2	202-049-5	91-20-3																	
25	■	phenanthrene				0.3	mg/kg		0.288	mg/kg	0.0000288 %	✓									
			201-581-5	85-01-8																	
26	■	pyrene				0.71	mg/kg		0.681	mg/kg	0.0000681 %	✓									
			204-927-3	129-00-0																	
27	🧪	boron { diboron trioxide }				0.4	mg/kg	3.22	1.235	mg/kg	0.000124 %	✓									
		005-008-00-8	215-125-8	1303-86-2																	
28	🧪	cyanides { ■ salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.1	mg/kg	1.884	<0.188	mg/kg	<0.0000188 %		<LOD								
		006-007-00-5																			
29	■	monohydric phenols				2.3	mg/kg		2.206	mg/kg	0.000221 %	✓									
				P1186																	
30		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD								
		601-020-00-8	200-753-7	71-43-2																	
31	■	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD								
		601-023-00-4	202-849-4	100-41-4																	
32		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD								
		603-181-00-X	216-653-1	1634-04-4																	
33		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD								
		601-021-00-3	203-625-9	108-88-3																	
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD								
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]																	
35		phenol												<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2																	
36		aniline												<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3																	
37	🧪	chromium in Cr(III) compounds { ■ chromium(III) oxide }				12	mg/kg	1.462	16.82	mg/kg	0.00168 %	✓									
			215-160-9	1308-38-9																	
38		benzyl alcohol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD								
		603-057-00-5	202-859-9	100-51-6																	
39		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD								
		604-004-00-9	203-577-9 [1] 202-423-8 [2]	108-39-4 [1] 95-48-7 [2]																	

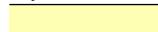
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
		203-398-6 [3] 215-293-2 [4]	106-44-5 [3] 1319-77-3 [4]								
40	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7] 604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
41	• bis(2-chloroethoxy)methane 203-920-2	111-91-1			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
42	2,4-dichlorophenol 604-011-00-7	204-429-6	120-83-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
43	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol 604-014-00-3	200-431-6	59-50-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
44	• 2-methyl naphthalene 202-078-3	91-57-6			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
45	hexachlorocyclopentadiene 602-078-00-7	201-029-3	77-47-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
46	2,4,6-trichlorophenol 604-018-00-5	201-795-9	88-06-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
47	2,4,5-trichlorophenol 604-017-00-X	202-467-8	95-95-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
48	• 2-chloronaphthalene 202-079-9	91-58-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
49	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
50	4-nitrophenol; p-nitrophenol 609-015-00-2	202-811-7	100-02-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
51	• dibenzofuran 205-071-3	132-64-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
52	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
53	2,3,4,6-tetrachlorophenol 604-013-00-8	200-402-8	58-90-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
54	• diethyl phthalate 201-550-6	84-66-2			0.5 mg/kg		0.48 mg/kg	0.000048 %	✓		
55	• 4-chlorophenylphenylether 230-281-7	7005-72-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
56	DNOC (ISO); 4,6-dinitro-o-cresol 609-020-00-X	208-601-1	534-52-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
57	diphenylamine 612-026-00-5	204-539-4	122-39-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
58	• 4-bromophenylphenylether 202-952-4	101-55-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
59	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
60	pentachlorophenol 604-002-00-8	201-778-6	87-86-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
61	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
62	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
63	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP 607-317-00-9	204-211-0	117-81-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
64	di-n-octyl phthalate	204-214-7	117-84-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
65	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
66	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
67	carbazole	201-696-0	86-74-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
68	vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
69	1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
70	1,1-dichloroethane	602-011-00-1	200-863-5	75-34-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
71	2,2-dichloropropane	209-832-0	594-20-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
72	bromochloromethane	200-826-3	74-97-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
73	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
74	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
75	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
76	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
77	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
78	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
80	dibromomethane	602-003-00-8	200-824-2	74-95-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
81	bromodichloromethane	200-856-7	75-27-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
83	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
84	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
85	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
86	1,3-dichloropropane	205-531-3	142-28-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
87	dibromochloromethane	204-704-0	124-48-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
88	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
89	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
90	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
91	styrene	601-026-00-0	202-851-5	100-42-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
92	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

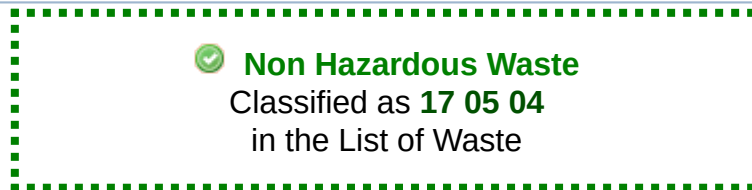
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
93	cumene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
94	bromobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
95	1,2,3-trichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
96	propylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-097-00-8	203-132-9	103-65-1							
97	mesitylene; 1,3,5-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
98	tert-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-632-4	98-06-6							
99	1,2,4-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
100	sec-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8							
101	1-isopropyl-4-methylbenzene; p-cymene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-094-00-1	202-796-7	99-87-6							
102	1,3-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
103	1,4-dichlorobenzene; p-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
104	n-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-209-7	104-51-8							
105	1,2-dichlorobenzene; o-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
106	1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
107	1,2,4-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
108	hexachlorobutadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-765-5	87-68-3							
109	1,2,3-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-757-1	87-61-6							
110	polychlorobiphenyls; PCB				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
111	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
112	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]							
113	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]							
114	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
Total:								0.0131 %		

Key

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

Classification of sample: WS107/0.30-0.35/2026-02-19



Sample details

Sample name:	LoW Code:
WS107/0.30-0.35/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
13%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.7 pH		8.7 pH	8.7 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.15 mg/kg		0.13 mg/kg	0.000013 %		✓	
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	33 mg/kg		28.71 mg/kg	0.00287 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.2 mg/kg		0.174 mg/kg	0.0000174 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				60 mg/kg	1.252	65.343 mg/kg	0.00653 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				19 mg/kg	1.273	21.036 mg/kg	0.0021 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	95 mg/kg		82.65 mg/kg	0.00827 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				28 mg/kg	1.785	43.487 mg/kg	0.00435 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				54 mg/kg	1.245	58.477 mg/kg	0.00585 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.03 mg/kg		0.0261 mg/kg	0.00000261 %	✓	
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	fluoranthene	205-912-4	206-44-0		0.06 mg/kg		0.0522 mg/kg	0.00000522 %	✓	
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
26	phenanthrene	201-581-5	85-01-8		0.04 mg/kg		0.0348 mg/kg	0.00000348 %	✓	
27	pyrene	204-927-3	129-00-0		0.05 mg/kg		0.0435 mg/kg	0.00000435 %	✓	
28	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		14 mg/kg	1.462	17.802 mg/kg	0.00178 %	✓	
Total:								0.0318 %		

Key

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

Classification of sample: WS108/0.25-0.30/2026-02-19

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

Sample details

Sample name:	LoW Code:
WS108/0.25-0.30/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
8.8%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH		PH		7.3 pH		7.3 pH	7.3 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.08 mg/kg		0.073 mg/kg	0.0000073 %		✓	
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	20 mg/kg		18.24 mg/kg	0.00182 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				54 mg/kg	1.252	61.647 mg/kg	0.00616 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				15 mg/kg	1.273	17.409 mg/kg	0.00174 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	110 mg/kg		100.32 mg/kg	0.01 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				26 mg/kg	1.785	42.33 mg/kg	0.00423 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				42 mg/kg	1.245	47.678 mg/kg	0.00477 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	fluoranthene	205-912-4	206-44-0		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
27	pyrene	204-927-3	129-00-0		<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	1.7 mg/kg	3.22	4.992	mg/kg	0.000499 %	✓	
29	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			0.2 mg/kg	1.884	0.344	mg/kg	0.0000344 %	✓	
30	monohydric phenols		P1186		0.7 mg/kg		0.638	mg/kg	0.0000638 %	✓	
31	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
33	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
35	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
36	phenol	604-001-00-2	203-632-7	108-95-2	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
37	aniline	612-008-00-7	200-539-3	62-53-3	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
38	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		13 mg/kg	1.462	17.328	mg/kg	0.00173 %	✓	
39	benzyl alcohol	603-057-00-5	202-859-9	100-51-6	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
40		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]								
		202-423-8 [2]	95-48-7 [2]								
		203-398-6 [3]	106-44-5 [3]								
		215-293-2 [4]	1319-77-3 [4]								
41		3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]								
		202-461-5 [2]	95-87-4 [2]								
		203-321-6 [3]	105-67-9 [3]								
		208-395-3 [4]	526-75-0 [4]								
		209-400-1 [5]	576-26-1 [5]								
		215-089-3 [6]	1300-71-6 [6]								
	276-245-4 [7]	71975-58-1 [7]									
42	■	bis(2-chloroethoxy)methane				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		203-920-2	111-91-1								
43		2,4-dichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-011-00-7	204-429-6	120-83-2							
44		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7							
45	■	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6							
46		hexachlorocyclopentadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-078-00-7	201-029-3	77-47-4							
47		2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2							
48		2,4,5-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-017-00-X	202-467-8	95-95-4							
49	■	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							
50		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-007-00-9	204-450-0 [1]	121-14-2 [1]							
			246-836-1 [2]	25321-14-6 [2]							
51		4-nitrophenol; p-nitrophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-015-00-2	202-811-7	100-02-7							
52	■	dibenzofuran				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-071-3	132-64-9							
53		2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2							
54		2,3,4,6-tetrachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-013-00-8	200-402-8	58-90-2							
55	■	diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-550-6	84-66-2							
56	■	4-chlorophenylphenylether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			230-281-7	7005-72-3							
57		DNOC (ISO); 4,6-dinitro-o-cresol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		609-020-00-X	208-601-1	534-52-1							
58		diphenylamine				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		612-026-00-5	204-539-4	122-39-4							
59	■	4-bromophenylphenylether				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-952-4	101-55-3							
60		hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1							
61		pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-002-00-8	201-778-6	87-86-5							
62		dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		607-318-00-4	201-557-4	84-74-2							
63		BBP; benzyl butyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		607-430-00-3	201-622-7	85-68-7							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
64	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP 607-317-00-9	204-211-0	117-81-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
65	di-n-octyl phthalate 204-214-7	117-84-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
66	dimethyl phthalate 205-011-6	131-11-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
67	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
68	carbazole 201-696-0	86-74-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
69	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
70	1,1-dichloroethylene; vinylidene chloride 602-025-00-8	200-864-0	75-35-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
71	1,1-dichloroethane 602-011-00-1	200-863-5	75-34-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
72	2,2-dichloropropane 209-832-0	594-20-7			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
73	bromochloromethane 200-826-3	74-97-5			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
74	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
75	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
76	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
77	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
78	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
80	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
81	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	bromodichloromethane 200-856-7	75-27-4			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
83	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
84	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
85	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
86	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
87	1,3-dichloropropane 205-531-3	142-28-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
88	dibromochloromethane 204-704-0	124-48-1			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
89	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
90	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
91	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

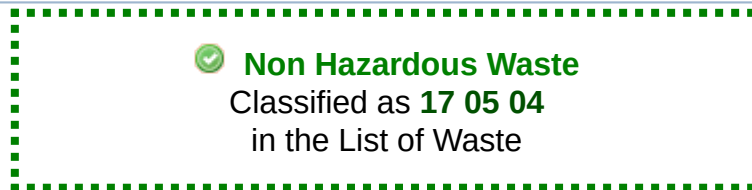
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
92	styrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
93	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
94	cumene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
95	bromobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
96	1,2,3-trichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
97	propylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-097-00-8	203-132-9	103-65-1							
98	mesitylene; 1,3,5-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
99	tert-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-632-4	98-06-6							
100	1,2,4-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
101	sec-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8							
102	1-isopropyl-4-methylbenzene; p-cymene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-094-00-1	202-796-7	99-87-6							
103	1,3-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
104	1,4-dichlorobenzene; p-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
105	n-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-209-7	104-51-8							
106	1,2-dichlorobenzene; o-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
107	1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
108	1,2,4-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
109	hexachlorobutadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-765-5	87-68-3							
110	1,2,3-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-757-1	87-61-6							
111	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.000002 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
112	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3 mg/kg		<0.3 mg/kg	<0.000003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]							
113	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.3 mg/kg		<0.3 mg/kg	<0.000003 %		<LOD
	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]							
114	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2]	95-49-8 [1] 108-41-8 [2]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		203-397-0 [3] 246-698-2 [4]	106-43-4 [3] 25168-05-2 [4]							
Total:								0.0311 %		

Key

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

Classification of sample: WS109/0.30-0.35/2026-02-19



Sample details

Sample name:	LoW Code:
WS109/0.30-0.35/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.9%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.9% Wet Weight Moisture Correction applied (MC)

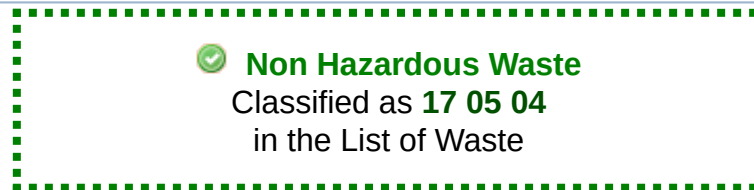
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.7 pH		8.7 pH	8.7 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	4.5 mg/kg		4.28 mg/kg	0.000428 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				9.8 mg/kg	1.252	11.666 mg/kg	0.00117 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				6.4 mg/kg	1.273	7.746 mg/kg	0.000775 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	9.5 mg/kg		9.035 mg/kg	0.000903 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				7.2 mg/kg	1.785	12.224 mg/kg	0.00122 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				28 mg/kg	1.245	33.144 mg/kg	0.00331 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.04 mg/kg		0.038 mg/kg	0.0000038 %	✓		
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	phenanthrene	201-581-5	85-01-8		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
27	pyrene	204-927-3	129-00-0		0.04 mg/kg		0.038 mg/kg	0.0000038 %	✓		
28	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		5.4 mg/kg	1.462	7.506 mg/kg	0.000751 %	✓		
Total:									0.00857 %		

Key

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

Classification of sample: WS110/0.15-0.20/2026-02-19



Sample details

Sample name:	LoW Code:
WS110/0.15-0.20/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
10%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				8.4 pH		8.4 pH	8.4 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.06 mg/kg		0.054 mg/kg	0.0000054 %		✓	
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	11 mg/kg		9.9 mg/kg	0.00099 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				0.2 mg/kg		0.18 mg/kg	0.000018 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				20 mg/kg	1.252	22.532 mg/kg	0.00225 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				17 mg/kg	1.273	19.471 mg/kg	0.00195 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	40 mg/kg		36 mg/kg	0.0036 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				23 mg/kg	1.785	36.953 mg/kg	0.0037 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				61 mg/kg	1.245	68.335 mg/kg	0.00683 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-469-6	83-32-9								
13	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	anthracene	204-371-1	120-12-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
16	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
17	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
18	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
19	benzo[ghi]perylene	205-883-8	191-24-2		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
20	chrysene	601-048-00-0	205-923-4	218-01-9	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
21	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	fluoranthene	205-912-4	206-44-0		0.05 mg/kg		0.045 mg/kg	0.0000045 %	✓		
23	fluorene	201-695-5	86-73-7		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
24	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
25	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	phenanthrene	201-581-5	85-01-8		0.03 mg/kg		0.027 mg/kg	0.0000027 %	✓		
27	pyrene	204-927-3	129-00-0		0.05 mg/kg		0.045 mg/kg	0.0000045 %	✓		
28	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.001 %		0.0009 %	0.0009 %	✓		
29	chromium in Cr(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		16 mg/kg	1.462	21.046 mg/kg	0.0021 %	✓		
Total:									0.0224 %		

Key

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

Classification of sample: WS110/1.80-2.30/2026-02-19

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

Sample details

Sample name:	LoW Code:
WS110/1.80-2.30/2026-02-19	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
27%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	chromium in Cr(VI) compounds { chromium(VI) oxide }				<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
2	pH				7.3 pH		7.3 pH	7.3 pH			
3	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.47 mg/kg		0.343 mg/kg	0.0000343 %		✓	
	080-002-00-6										
4	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	42 mg/kg		30.66 mg/kg	0.00307 %		✓	
	033-002-00-5										
5	cadmium (non-pyrophoric); [1] cadmium oxide (non-pyrophoric) [2]				2.4 mg/kg		1.752 mg/kg	0.000175 %		✓	
	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]								
6	copper { copper(II) oxide }				250 mg/kg	1.252	228.449 mg/kg	0.0228 %		✓	
	029-016-00-6	215-269-1	1317-38-0								
7	nickel { nickel(II) oxide (nickel monoxide) }				43 mg/kg	1.273	39.947 mg/kg	0.00399 %		✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	350 mg/kg		255.5 mg/kg	0.0256 %		✓	
	082-001-00-6										
9	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %			<LOD
	034-002-00-8										
10	vanadium { divanadium pentaoxide; vanadium pentoxide }				32 mg/kg	1.785	41.702 mg/kg	0.00417 %		✓	
	023-001-00-8	215-239-8	1314-62-1								
11	zinc { zinc oxide }				1100 mg/kg	1.245	999.505 mg/kg	0.1 %		✓	
	030-013-00-7	215-222-5	1314-13-2								
12	acenaphthene				0.9 mg/kg		0.657 mg/kg	0.0000657 %		✓	
		201-469-6	83-32-9								
13	acenaphthylene				0.2 mg/kg		0.146 mg/kg	0.0000146 %		✓	
		205-917-1	208-96-8								

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
14		anthracene				0.9 mg/kg		0.657 mg/kg	0.0000657 %	✓	
			204-371-1	120-12-7							
15		benzo[a]pyrene; benzo[def]chrysene				4.4 mg/kg		3.212 mg/kg	0.000321 %	✓	
		601-032-00-3	200-028-5	50-32-8							
16		benzo[a]anthracene				3.8 mg/kg		2.774 mg/kg	0.000277 %	✓	
		601-033-00-9	200-280-6	56-55-3							
17		benzo[bk]fluoranthene				5.8 mg/kg		4.234 mg/kg	0.000423 %	✓	
			[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
18		benzo[k]fluoranthene				1.4 mg/kg		1.022 mg/kg	0.000102 %	✓	
		601-036-00-5	205-916-6	207-08-9							
19		benzo[ghi]perylene				2.3 mg/kg		1.679 mg/kg	0.000168 %	✓	
			205-883-8	191-24-2							
20		chrysene				3.5 mg/kg		2.555 mg/kg	0.000256 %	✓	
		601-048-00-0	205-923-4	218-01-9							
21		dibenz[a,h]anthracene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
22		fluoranthene				7.5 mg/kg		5.475 mg/kg	0.000547 %	✓	
			205-912-4	206-44-0							
23		fluorene				0.4 mg/kg		0.292 mg/kg	0.0000292 %	✓	
			201-695-5	86-73-7							
24		indeno[123-cd]pyrene				2.1 mg/kg		1.533 mg/kg	0.000153 %	✓	
			205-893-2	193-39-5							
25		naphthalene				0.04 mg/kg		0.0292 mg/kg	0.00000292 %	✓	
		601-052-00-2	202-049-5	91-20-3							
26		phenanthrene				3.4 mg/kg		2.482 mg/kg	0.000248 %	✓	
			201-581-5	85-01-8							
27		pyrene				6.7 mg/kg		4.891 mg/kg	0.000489 %	✓	
			204-927-3	129-00-0							
28		boron { diboron trioxide }				1.1 mg/kg	3.22	2.586 mg/kg	0.000259 %	✓	
		005-008-00-8	215-125-8	1303-86-2							
29		cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1 mg/kg	1.884	1.375 mg/kg	0.000138 %	✓	
		006-007-00-5									
30		monohydric phenols				1.5 mg/kg		1.095 mg/kg	0.000109 %	✓	
				P1186							
31		benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
32		ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
33		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
34		toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
35		xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
36		phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2							
37		aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3							
38		chromium in Cr(III) compounds {  chromium(III) oxide }				32 mg/kg	1.462	34.142 mg/kg	0.00341 %	✓	
			215-160-9	1308-38-9							
39		benzyl alcohol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		603-057-00-5	202-859-9	100-51-6							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
40	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]								
		202-423-8 [2]	95-48-7 [2]								
		203-398-6 [3]	106-44-5 [3]								
41	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]								
		202-461-5 [2]	95-87-4 [2]								
		203-321-6 [3]	105-67-9 [3]								
		208-395-3 [4]	526-75-0 [4]								
		209-400-1 [5]	576-26-1 [5]								
		215-089-3 [6]	1300-71-6 [6]								
		276-245-4 [7]	71975-58-1 [7]								
42	bis(2-chloroethoxy)methane				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		203-920-2	111-91-1								
43	2,4-dichlorophenol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-011-00-7	204-429-6	120-83-2								
44	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7								
45	2-methyl naphthalene				0.2 mg/kg		0.146 mg/kg		0.0000146 %	✓	
		202-078-3	91-57-6								
46	hexachlorocyclopentadiene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	602-078-00-7	201-029-3	77-47-4								
47	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2								
48	2,4,5-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-017-00-X	202-467-8	95-95-4								
49	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		202-079-9	91-58-7								
50	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	609-007-00-9	204-450-0 [1]	121-14-2 [1]								
		246-836-1 [2]	25321-14-6 [2]								
51	4-nitrophenol; p-nitrophenol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	609-015-00-2	202-811-7	100-02-7								
52	dibenzofuran				0.2 mg/kg		0.146 mg/kg		0.0000146 %	✓	
		205-071-3	132-64-9								
53	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2								
54	2,3,4,6-tetrachlorophenol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-013-00-8	200-402-8	58-90-2								
55	diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-550-6	84-66-2								
56	4-chlorophenylphenylether				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		230-281-7	7005-72-3								
57	DNOC (ISO); 4,6-dinitro-o-cresol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	609-020-00-X	208-601-1	534-52-1								
58	diphenylamine				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	612-026-00-5	204-539-4	122-39-4								
59	4-bromophenylphenylether				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		202-952-4	101-55-3								
60	hexachlorobenzene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	602-065-00-6	204-273-9	118-74-1								
61	pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	604-002-00-8	201-778-6	87-86-5								
62	dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2								
63	BBP; benzyl butyl phthalate				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	607-430-00-3	201-622-7	85-68-7								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
64	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP 607-317-00-9	204-211-0	117-81-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
65	di-n-octyl phthalate 204-214-7	117-84-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
66	dimethyl phthalate 205-011-6	131-11-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
67	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
68	carbazole 201-696-0	86-74-8			0.2 mg/kg		0.146 mg/kg	0.0000146 %	✓	
69	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
70	1,1-dichloroethylene; vinylidene chloride 602-025-00-8	200-864-0	75-35-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
71	1,1-dichloroethane 602-011-00-1	200-863-5	75-34-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
72	2,2-dichloropropane 209-832-0	594-20-7			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
73	bromochloromethane 200-826-3	74-97-5			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
74	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
75	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
76	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
77	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
78	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
79	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
80	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
81	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	bromodichloromethane 200-856-7	75-27-4			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
83	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
84	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
85	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
86	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
87	1,3-dichloropropane 205-531-3	142-28-9			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
88	dibromochloromethane 204-704-0	124-48-1			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
89	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
90	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
91	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
92	styrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
93	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
94	cumene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
95	bromobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
96	1,2,3-trichloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
97	propylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-097-00-8	203-132-9	103-65-1							
98	mesitylene; 1,3,5-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
99	tert-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-632-4	98-06-6							
100	1,2,4-trimethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
101	sec-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-227-0	135-98-8							
102	1-isopropyl-4-methylbenzene; p-cymene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-094-00-1	202-796-7	99-87-6							
103	1,3-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
104	1,4-dichlorobenzene; p-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
105	n-butylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-209-7	104-51-8							
106	1,2-dichlorobenzene; o-dichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
107	1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
108	1,2,4-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
109	hexachlorobutadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-765-5	87-68-3							
110	1,2,3-trichlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-757-1	87-61-6							
111	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.000002 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
112	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.3 mg/kg		<0.3 mg/kg	<0.000003 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]							
113	dinitrobenzene; [1] 1,4-dinitrobenzene; [2] 1,3-dinitrobenzene; [3] 1,2-dinitrobenzene [4]				<0.3 mg/kg		<0.3 mg/kg	<0.000003 %		<LOD
	609-004-00-2	246-673-6 [1] 202-833-7 [2] 202-776-8 [3] 208-431-8 [4]	25154-54-5 [1] 100-25-4 [2] 99-65-0 [3] 528-29-0 [4]							
114	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2]	95-49-8 [1] 108-41-8 [2]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		203-397-0 [3] 246-698-2 [4]	106-43-4 [3] 25168-05-2 [4]							
Total:								0.167 %		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

• pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

• arsenic compounds, with the exception of those specified elsewhere in this Annex

GB MCL index number: 033-002-00-5
Description/Comments: Worst Case: IARC considers arsenic compounds Group 1; Carcinogenic to humans
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

• lead compounds with the exception of those specified elsewhere in this Annex

GB MCL index number: 082-001-00-6
Description/Comments: Least-worst case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium
www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• benzo[bk]fluoranthene (EC Number: [1] 205-911-9 [2] 205-916-6, CAS Number: [1] 205-99-2 [2] 207-08-9)

Description/Comments: Combined data from harmonised entries in CLP for benzo[b] and benzo[k]fluoranthene; C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Carc. 1B; H350 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **chromium(III) oxide** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from ECHA's C&L inventory database
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>
Data source date: 30 Apr 2020
Hazard Statements: Acute Tox. 4; H302 , Skin Sens. 1; H317 , Eye Irrit. 2; H319

■ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from:: WM3, Table C12.2

■ **monohydric phenols** (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 <= conc. < 3 % , Eye Irrit. 2; H319 1 <= conc. < 3 % , Aquatic Chronic 2; H411

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from:: IARC Group 2B (77) 2000

■ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

■ **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

■ **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

▪ **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

▪ **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

▪ **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **di-n-octyl phthalate** (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

▪ **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

▪ **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

▪ **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

▪ **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

■ **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane

Data source: N/a

Data source date: 14 Oct 2016

Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

■ **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

■ **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

■ **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

■ **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

■ **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

■ **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

■ **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

■ **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

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

GB MCL index number: 602-039-00-4

Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from:: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

chromium in Cr(VI) compounds {chromium(VI) oxide}

Oxide most likely form of metal in soil environment

mercury {inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex}

Oxide most likely form of metal in soil environment

arsenic {arsenic compounds, with the exception of those specified elsewhere in this Annex}

Oxide most likely form of metal in soil environment

copper {copper(II) oxide}

Oxide most likely form of metal in soil environment

nickel {nickel(II) oxide (nickel monoxide)}

Oxide most likely form of metal in soil environment

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Oxide most likely form of metal in soil environment

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Oxide most likely form of metal in soil environment

vanadium {divanadium pentaoxide; vanadium pentoxide}

Oxide most likely form of metal in soil environment

zinc {zinc oxide}

Oxide most likely form of metal in soil environment

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

Oxide most likely form of metal in soil environment

boron {diboron trioxide}

Solubility and oxide most likely form of metal in soil environment

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

.

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2026.82.7014.12644 (23 Mar 2026)

HazWasteOnline Database: 2026.81.7012.12642 (22 Mar 2026)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

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

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

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

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

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

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

Appendix K – EN 1997 (EC7) Design Approach & Partial Factors

Design approach : 1 - reduction of actions and soil parameters

Partial factors on actions (A)					
Permanent design situation					
		Combination 1		Combination 2	
		Unfavourable	Favourable	Unfavourable	Favourable
Permanent actions :	$\gamma_G =$	1.35 [-]	1.00 [-]	1.00 [-]	1.00 [-]
Variable actions :	$\gamma_Q =$	1.50 [-]	0.00 [-]	1.30 [-]	0.00 [-]
Water load :	$\gamma_w =$	1.35 [-]		1.00 [-]	

Partial factors for soil parameters (M)			
Permanent design situation			
		Combination 1	Combination 2
Partial factor on internal friction :	$\gamma_\phi =$	1.00 [-]	1.25 [-]
Partial factor on effective cohesion :	$\gamma_c =$	1.00 [-]	1.25 [-]
Partial factor on undrained shear strength :	$\gamma_{cu} =$	1.00 [-]	1.40 [-]

Design approach : 2 - reduction of actions and resistances

Partial factors on actions (A)			
Permanent design situation			
		Unfavourable	Favourable
Permanent actions :	$\gamma_G =$	1.35 [-]	1.00 [-]
Variable actions :	$\gamma_Q =$	1.50 [-]	0.00 [-]
Water load :	$\gamma_w =$	1.35 [-]	

Partial factors for resistances (R)		
Permanent design situation		
Partial factor on sliding resistance (on slip surface) :	$\gamma_{Rs} =$	1.10 [-]

Design approach : 3 - reduction of actions (GEO, STR) and soil parameters

Partial factors on actions (A)					
Permanent design situation					
		State STR		State GEO	
		Unfavourable	Favourable	Unfavourable	Favourable
Permanent actions :	$\gamma_G =$	1.35 [-]	1.00 [-]	1.00 [-]	1.00 [-]
Variable actions :	$\gamma_Q =$	1.50 [-]	0.00 [-]	1.30 [-]	0.00 [-]
Water load :	$\gamma_w =$			1.00 [-]	

Partial factors for soil parameters (M)			
Permanent design situation			
Partial factor on internal friction :	$\gamma_\phi =$	1.25 [-]	
Partial factor on effective cohesion :	$\gamma_c =$	1.25 [-]	
Partial factor on undrained shear strength :	$\gamma_{cu} =$	1.40 [-]	

Appendix L – Limistate:GEO Slope Stability Reports



This report was generated by LimitState:GEO3.6.1.26217 - limitstate.com

About this Report

This report has been generated using LimitState:GEO, a software application capable of directly identifying the critical collapse mechanism for a wide variety of geotechnical stability problems, including those involving slopes, retaining walls, footings etc.

The software utilizes the Discontinuity Layout Optimization (DLO) procedure to obtain a solution (Smith and Gilbert 2007). The main steps involved are: (i) distribution of nodes across the problem domain; (ii) connection of every node to every other node with potential discontinuities (e.g. slip-lines); (iii) application of rigorous optimization techniques to identify the critical subset of potential discontinuities, and hence also the critical failure mechanism and margin of safety.

The accuracy of the DLO solution is controlled by the specified nodal density. Within the set of all possible discontinuities linking pairs of nodes, all potential translational failure mechanisms are considered, whether anticipated or not by the engineer. Failure mechanisms involving rotations along the edges of solid bodies in the problem can also be identified. Thus in this case the solution identified by the DLO procedure is guaranteed to be the most critical solution for the problem posed. This means that there is no need to prescribe any aspect of the collapse mechanism prior to an analysis, or to separately consider different failure modes. The critical mechanism and collapse load factor are determined according to the well established upper bound theorem of plasticity.

LimitState:GEO reports the solution to a problem both visually as a collapse mechanism and numerically in terms of an Adequacy Factor, which is defined as the factor by which specified loads must be increased, or material strengths decreased, in order for the system under consideration to reach a collapse state.

REFERENCE

Smith, C.C. and Gilbert, M. (2007) Application of discontinuity layout optimization to plane plasticity problems, Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, Vol. 463, 2086, pp 2461-2484.

Summary

Name	Date of Analysis	Name of Engineer	Organization
Dicken Green Mill	Mon Apr 13 2026	Colin Wardle	LK Consult Ltd.

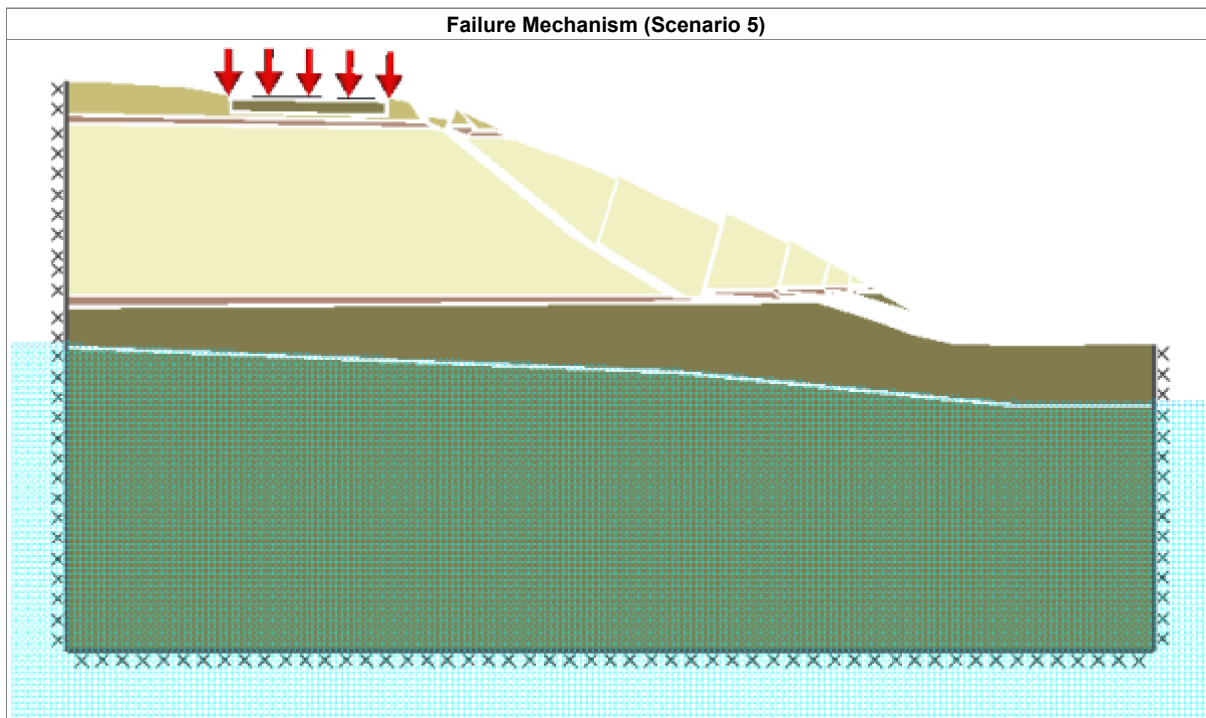
Reference #	Location	Map Reference	Tags
LKC251701	Profile A-A'		

Comments

Target Nodal Density	Nodal Spacing Scale Factor	Water	Model Translational Failures?	Model Rotational Failures?	Seismic Accelerations: Horiz. / Vert. (g)
Medium (500 nodes)	0.603712	Enabled	True	Along edges	None

Scenario	Partial Factor Set	Short / Long Term?**	Analysis Type	Adequacy Factor
1	User	Short Term	Factor Strength(s)	1.822
2	EC7 DA1/1	Short Term	Factor Strength(s)	1.822
3	EC7 DA1/1	Long Term	Factor Strength(s)	1.606
4	EC7 DA1/2	Short Term	Factor Strength(s)	1.479
5*	EC7 DA1/2	Long Term	Factor Strength(s)	1.285

*This report provides details of this scenario, which has been identified as the most critical. **For Mohr Coulomb materials with Drainage Behaviour specified as 'drained/undrained', undrained properties are used in a short term analysis, and drained properties are used in a long term analysis.



Analysis Options

Factor Strength(s)

Solution Tolerance (%)	Automatic Adequacy on Load(s)	Factor on Load(s)	Artificial Cohesion (kN/m ² (kPa))
1	True	1	0.1

Geometry

(all distances in m)

All Geometrical Objects

No. of Vertices (V)	No. of Boundaries (B)	No. of Solids (S)
46	53	7

Boundary Objects

ID	Start Vertex ID (x, y)	End Vertex ID (x, y)	Baseline Nodal Spacing	Support Type	Material(s)
B1	V1 (0, 120)	V2 (38, 120)	0.5	Fixed	-
B2	V2 (38, 120)	V44 (38, 130)	0.5	Fixed	-
B3	V3 (38, 140)	V4 (36, 140)	0.5	Free	-
B4	V4 (36, 140)	V5 (35, 140)	0.5	Free	-
B5	V5 (35, 140)	V6 (34, 140)	0.5	Free	-
B6	V6 (34, 140)	V7 (32, 140)	0.5	Free	-
B7	V7 (32, 140)	V8 (31, 140)	0.5	Free	-
B8	V8 (31, 140)	V9 (29, 140)	0.5	Free	-
B9	V9 (29, 140)	V10 (28, 140)	0.5	Free	-
B10	V10 (28, 140)	V41 (27, 140)	0.5	Free	-
B11	V11 (27, 140)	V39 (26, 140)	0.5	Free	-

B12	V12 (25, 140)	V13 (24, 140)	0.5	Free	-
B13	V13 (24, 140)	V14 (22, 140)	0.5	Free	-
B14	V14 (22, 140)	V15 (21, 140)	0.5	Free	-
B15	V15 (21, 140)	V16 (20, 140)	0.5	Free	-
B16	V16 (20, 140)	V17 (18, 140)	0.5	Free	-
B17	V17 (18, 140)	V18 (17, 140)	0.5	Free	-
B18	V18 (17, 140)	V19 (15, 140)	0.5	Free	-
B19	V19 (15, 140)	V37 (15, 140)	0.5	Free	-
B20	V20 (14, 140)	V21 (13, 140)	0.5	Free	-
B21	V21 (13, 140)	V22 (11, 140)	0.5	Free	-
B22*	V22 (11, 140)	V23 (9.8, 140)	0.5	Free	-
B23*	V23 (9.8, 140)	V24 (8.4, 140)	0.5	Free	-
B24*	V24 (8.4, 140)	V25 (7, 140)	0.5	Free	-
B25*	V25 (7, 140)	V26 (5.6, 140)	0.5	Free	-
B26	V26 (5.6, 140)	V27 (4.2, 140)	0.5	Free	-
B27	V27 (4.2, 140)	V28 (2.8, 140)	0.5	Free	-
B28	V28 (2.8, 140)	V29 (1.4, 140)	0.5	Free	-
B29	V29 (1.4, 140)	V30 (0, 140)	0.5	Free	-
B30	V1 (0, 120)	V43 (0, 140)	0.5	Fixed	-
B31	V26 (5.6, 140)	V31 (5.6, 140)	0.5	Free	-
B32	V31 (5.6, 140)	V32 (11, 140)	0.5	Free	-
B34	V32 (11, 140)	V22 (11, 140)	0.5	Free	-
B35	V31 (5.6, 140)	V34 (5.6, 140)	0.5	Free	-
B37	V34 (5.6, 140)	V33 (11, 140)	0.5	Free	-
B38	V33 (11, 140)	V32 (11, 140)	0.5	Free	-
B39	V35 (0, 140)	V30 (0, 140)	0.5	Fixed	-
B40	V35 (0, 140)	V20 (14, 140)	0.5	Free	-
B41	V36 (0, 140)	V35 (0, 140)	0.5	Fixed	-
B42	V36 (0, 140)	V37 (15, 140)	0.5	Free	-
B43	V37 (15, 140)	V20 (14, 140)	0.5	Free	-
B44	V38 (0, 140)	V42 (0, 140)	0.5	Fixed	-
B45	V39 (26, 140)	V12 (25, 140)	0.5	Free	-
B46	V38 (0, 140)	V11 (27, 140)	0.5	Free	-
B47	V40 (0, 140)	V38 (0, 140)	0.5	Fixed	-
B48	V41 (27, 140)	V11 (27, 140)	0.5	Free	-
B49	V41 (27, 140)	V40 (0, 140)	0.5	Free	-
B50	V42 (0, 140)	V36 (0, 140)	0.5	Fixed	-
B51	V43 (0, 140)	V40 (0, 140)	0.5	Fixed	-
B52	V44 (38, 130)	V3 (38, 140)	0.5	Fixed	-
B53	V45 (33, 130)	V44 (38, 130)	0.25	Free	-
B54	V46 (21, 130)	V45 (33, 130)	0.25	Free	-
B55	V43 (0, 140)	V46 (21, 130)	0.25	Free	-

* Loaded boundary.

Solid Objects

ID	Vertex IDs (x, y)	Boundary IDs	Baseline Nodal Spacing (x / y)	Material(s)/Water Regime(s)
S4*	V22 (11,140) V23 (9.8,140) V24 (8.4,140) V25 (7,140) V26 (5.6,140) V31 (5.6,140) V32 (11,140)	B22 B23 B24 B25 B31 B32 B34	1 / 1	Tarmac
S9*	V32 (11,140) V31 (5.6,140) V34 (5.6,140) V33 (11,140)	B32 B35 B37 B38	1 / 1	Dense Sand
	V20 (14,140) V21 (13,140) V22 (11,140) V32 (11,140)	B20 B21 B34 B38		

	V33 (11,140) V34 (5.6,140) V31 (5.6,140) V26 (5.6,140) V27 (4.2,140) V28 (2.8,140) V29 (1.4,140) V30 (0,140) V35 (0,140)	B37 B35 B31 B26 B27 B28 B29 B39 B40		
S39*	V37 (15,140) V20 (14,140) V35 (0,140) V36 (0,140)	B43 B40 B41 B42	1 / 1	Firm Clay
S41*	V11 (27,140) V39 (26,140) V12 (25,140) V13 (24,140) V14 (22,140) V15 (21,140) V16 (20,140) V17 (18,140) V18 (17,140) V19 (15,140) V37 (15,140) V36 (0,140) V42 (0,140) V38 (0,140)	B11 B45 B12 B13 B14 B15 B16 B17 B18 B19 B42 B50 B44 B46	1 / 1	Medium Dense SAND 1
S43*	V41 (27,140) V11 (27,140) V38 (0,140) V40 (0,140)	B48 B46 B47 B49	1 / 1	Firm Clay
S42	V40 (0,140) V43 (0,140) V1 (0,120) V2 (38,120) V44 (38,130) V3 (38,140) V4 (36,140) V5 (35,140) V6 (34,140) V7 (32,140) V8 (31,140) V9 (29,140) V10 (28,140) V41 (27,140)	B51 B30 B1 B2 B52 B3 B4 B5 B6 B7 B8 B9 B10 B49	1 / 1	Dense Sand

* Loaded solid (self weight).

Water Table *(all distances in m)*

Water Table Status	Vertices (x, y)
Enabled	(0, 135.263) (21.1767, 134.402) (32.8513, 133.254) (37.6902, 133.254)

Water Regimes *(potentials in m, pressures in kN/m² (kPa))*

(No water regime defined)

Materials *(unit weights (weight densities) in kN/m³, strengths in kN/m² (kPa), angles in degrees, datum level in m, undrained strength gradient in kN/m² (kPa)/m)*

Mohr-Coulomb Material(s)

Key	Name	Unit Weight (Saturated Unit Weight)	Drainage Behaviour	c' (φ')	c _u (datum) (gradient) (grid)
-----	------	--	--------------------	---------	---

	Tarmac	23 (23)	Always undrained	0 (0)	1000* (0*) (0*) (-)
	Dense Sand	18 (21)	Always drained	0* (45*)	0 (0) (0) (-)
	Loose Sand	14 (19)	Always drained	0* (30*)	0 (0) (0) (-)
	Firm Clay	20 (20)	Drained/undrained	3* (20*)	60 (0) (0) (-)
	Medium Dense SAND 1	16 (20)	Always drained	3* (32*)	0 (0) (0) (-)

*Property used in Scenario 5 (described in this report).

Partial Factors

Factor	User	EC7 DA1/1	EC7 DA1/1	EC7 DA1/2
Unfavourable: permanent	1	1.35	1.35	1
Unfavourable: variable	1	1.5	1.5	1.3
Unfavourable: accidental	1	1	1	1
Favourable: permanent	1	1	1	1
Favourable: variable	1	0	0	0
Favourable: accidental	1	0	0	0
c'	1	1	1	1.25
$\tan\phi'$	1	1	1	1.25
c_u	1	1	1	1.4

Factor	EC7 DA1/2*			
Unfavourable: permanent	1			
Unfavourable: variable	1.3			
Unfavourable: accidental	1			
Favourable: permanent	1			
Favourable: variable	0			
Favourable: accidental	0			
c'	1.25			
$\tan\phi'$	1.25			
c_u	1.4			

*These partial factors were used in Scenario 5 (described in this report).

Loads (normal and shear loads in kN/m² (kPa))

Boundary Objects

Loaded Object	Type	Loading Type	Adequacy?	Normal	Shear
B22	Variable Load	neutral	true	20	0
B23	Variable Load	neutral	true	20	0
B24	Variable Load	neutral	true	20	0
B25	Variable Load	neutral	true	20	0

Solid Objects

Loaded Object	Type	Loading Type	Adequacy?
S4	Permanent (unfactored self weight: 23 kN/m ³)	neutral	true
	Permanent (unfactored self		

	weight: 18 kN/m ³)		
S37	Permanent (unfactored self weight: 14 kN/m ³)	neutral	true
S39	Permanent (unfactored self weight: 20 kN/m ³)	neutral	true
S41	Permanent (unfactored self weight: 16 kN/m ³)	neutral	true
S43	Permanent (unfactored self weight: 20 kN/m ³)	neutral	true
S44	Permanent (unfactored self weight: 21 kN/m ³)	neutral	true
S45	Permanent (unfactored self weight: 18 kN/m ³)	neutral	true





This report was generated by LimitState:GEO3.6.1.26217 - limitstate.com

About this Report

This report has been generated using LimitState:GEO, a software application capable of directly identifying the critical collapse mechanism for a wide variety of geotechnical stability problems, including those involving slopes, retaining walls, footings etc.

The software utilizes the Discontinuity Layout Optimization (DLO) procedure to obtain a solution (Smith and Gilbert 2007). The main steps involved are: (i) distribution of nodes across the problem domain; (ii) connection of every node to every other node with potential discontinuities (e.g. slip-lines); (iii) application of rigorous optimization techniques to identify the critical subset of potential discontinuities, and hence also the critical failure mechanism and margin of safety.

The accuracy of the DLO solution is controlled by the specified nodal density. Within the set of all possible discontinuities linking pairs of nodes, all potential translational failure mechanisms are considered, whether anticipated or not by the engineer. Failure mechanisms involving rotations along the edges of solid bodies in the problem can also be identified. Thus in this case the solution identified by the DLO procedure is guaranteed to be the most critical solution for the problem posed. This means that there is no need to prescribe any aspect of the collapse mechanism prior to an analysis, or to separately consider different failure modes. The critical mechanism and collapse load factor are determined according to the well established upper bound theorem of plasticity.

LimitState:GEO reports the solution to a problem both visually as a collapse mechanism and numerically in terms of an Adequacy Factor, which is defined as the factor by which specified loads must be increased, or material strengths decreased, in order for the system under consideration to reach a collapse state.

REFERENCE

Smith, C.C. and Gilbert, M. (2007) Application of discontinuity layout optimization to plane plasticity problems, Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, Vol. 463, 2086, pp 2461-2484.

Summary

Name	Date of Analysis	Name of Engineer	Organization
Dicken Green Mill	Mon Apr 13 2026	Colin Wardle	LK Consult Ltd.

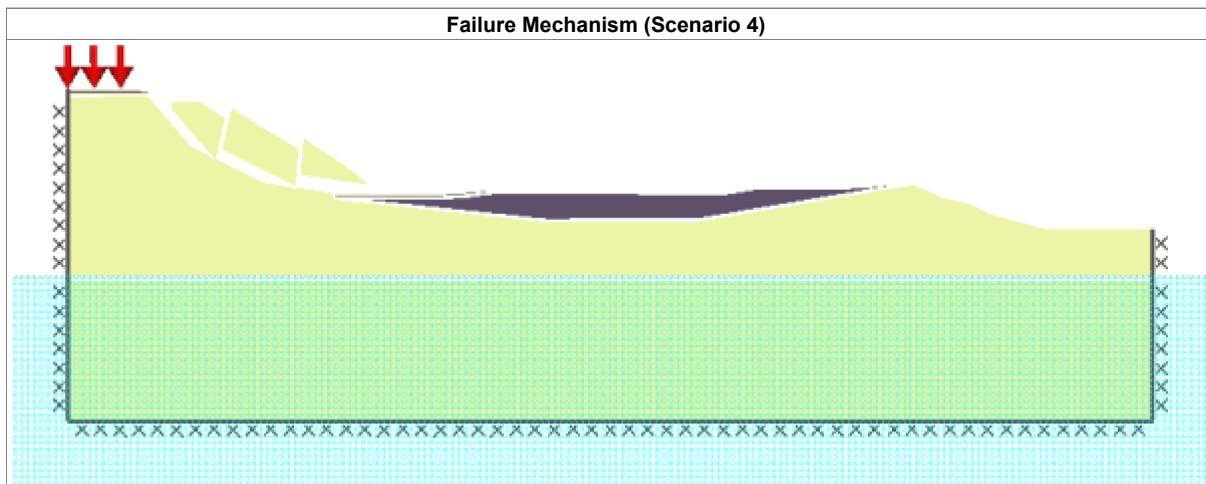
Reference #	Location	Map Reference	Tags
LKC2701	Profile B - B'		

Comments

Target Nodal Density	Nodal Spacing Scale Factor	Water	Model Translational Failures?	Model Rotational Failures?	Seismic Accelerations: Horiz. / Vert. (g)
Medium (500 nodes)	0.564439	Enabled	True	Along edges	None

Scenario	Partial Factor Set	Short / Long Term?**	Analysis Type	Adequacy Factor
1	User	Short Term	Factor Strength(s)	1.621
2	EC7 DA1/1	Short Term	Factor Strength(s)	1.621
3	EC7 DA1/1	Long Term	Factor Strength(s)	1.621
4*	EC7 DA1/2	Short Term	Factor Strength(s)	1.297
5	EC7 DA1/2	Long Term	Factor Strength(s)	1.297

*This report provides details of this scenario, which has been identified as the most critical. **For Mohr Coulomb materials with Drainage Behaviour specified as 'drained/undrained', undrained properties are used in a short term analysis, and drained properties are used in a long term analysis.



Analysis Options

Factor Strength(s)

Solution Tolerance (%)	Automatic Adequacy on Load(s)	Factor on Load(s)	Artificial Cohesion (kN/m ² (kPa))
1	True	1	0.1

Geometry

(all distances in m)

All Geometrical Objects

No. of Vertices (V)	No. of Boundaries (B)	No. of Solids (S)
64	70	6

Boundary Objects

ID	Start Vertex ID (x, y)	End Vertex ID (x, y)	Baseline Nodal Spacing	Support Type	Material(s)
B1	V1 (0, 130)	V2 (53, 130)	0.5	Fixed	-
B2	V2 (53, 130)	V53 (53, 140)	0.5	Fixed	-
B3	V3 (53, 140)	V4 (51, 140)	0.5	Free	-
B4	V4 (51, 140)	V5 (50, 140)	0.5	Free	-
B5	V5 (50, 140)	V6 (49, 140)	0.5	Free	-
B6	V6 (49, 140)	V8 (48, 140)	0.5	Free	-
B8	V8 (48, 140)	V9 (45, 140)	0.5	Free	-
B9	V9 (45, 140)	V10 (44, 140)	0.5	Free	-
B10	V10 (44, 140)	V11 (42, 140)	0.5	Free	-
B11	V11 (42, 140)	V12 (41, 140)	0.5	Free	-
B12	V12 (41, 140)	V13 (40, 140)	0.5	Free	-
B13	V13 (40, 140)	V14 (39, 140)	0.5	Free	-
B14	V14 (39, 140)	V15 (37, 140)	0.5	Free	-
B15	V15 (37, 140)	V16 (36, 140)	0.5	Free	-
B16	V16 (36, 140)	V17 (35, 140)	0.5	Free	-
B17	V17 (35, 140)	V18 (33, 140)	0.5	Free	-
B18	V18 (33, 140)	V19 (32, 140)	0.5	Free	-
B19	V19 (32, 140)	V20 (31, 140)	0.5	Free	-
B20	V20 (31, 140)	V21 (30, 140)	0.5	Free	-

B21	V21 (30, 140)	V22 (28, 140)	0.5	Free	-
B22	V22 (28, 140)	V23 (27, 140)	0.5	Free	-
B23	V23 (27, 140)	V24 (26, 140)	0.5	Free	-
B24	V24 (26, 140)	V25 (24, 140)	0.5	Free	-
B25	V25 (24, 140)	V26 (23, 140)	0.5	Free	-
B26	V26 (23, 140)	V27 (22, 140)	0.5	Free	-
B27	V27 (22, 140)	V28 (21, 140)	0.5	Free	-
B28	V28 (21, 140)	V29 (19, 140)	0.5	Free	-
B29	V29 (19, 140)	V30 (18, 140)	0.5	Free	-
B30	V30 (18, 140)	V31 (17, 140)	0.5	Free	-
B31	V31 (17, 140)	V32 (15, 140)	0.5	Free	-
B32	V32 (15, 140)	V33 (14, 140)	0.5	Free	-
B33	V33 (14, 140)	V34 (13, 140)	0.5	Free	-
B34	V34 (13, 140)	V35 (12, 140)	0.5	Free	-
B35	V35 (12, 140)	V36 (10, 140)	0.5	Free	-
B36	V36 (10, 140)	V37 (9, 140)	0.5	Free	-
B37	V37 (9, 140)	V38 (7.7, 140)	0.5	Free	-
B38	V38 (7.7, 140)	V39 (6.4, 150)	0.5	Free	-
B39	V39 (6.4, 150)	V40 (5.1, 150)	0.5	Free	-
B40	V40 (5.1, 150)	V41 (3.9, 150)	0.5	Free	-
B41	V41 (3.9, 150)	V42 (2.6, 150)	0.5	Free	-
B42*	V42 (2.6, 150)	V43 (1.3, 150)	0.5	Free	-
B43*	V43 (1.3, 150)	V44 (0, 150)	0.5	Free	-
B44	V1 (0, 130)	V67 (0, 140)	0.5	Fixed	-
B45	V34 (13, 140)	V47 (13, 140)	0.5	Free	-
B48	V46 (31, 140)	V18 (33, 140)	0.5	Free	-
B49	V47 (13, 140)	V49 (18, 140)	0.5	Free	-
B51	V49 (18, 140)	V50 (19, 140)	0.5	Free	-
B53	V50 (19, 140)	V51 (21, 140)	0.5	Free	-
B54	V51 (21, 140)	V52 (23, 140)	0.5	Free	-
B55	V52 (23, 140)	V46 (31, 140)	0.5	Free	-
B56	V47 (13, 140)	V54 (13, 140)	0.5	Free	-
B57	V53 (53, 140)	V3 (53, 140)	0.5	Fixed	-
B58	V54 (13, 140)	V55 (18, 140)	0.5	Free	-
B59	V55 (18, 140)	V56 (19, 140)	0.5	Free	-
B60	V56 (19, 140)	V57 (21, 140)	0.5	Free	-
B61	V57 (21, 140)	V58 (24, 140)	0.5	Free	-
B62	V58 (24, 140)	V59 (27, 140)	0.5	Free	-
B63	V59 (27, 140)	V60 (32, 140)	0.5	Free	-
B65	V60 (32, 140)	V18 (33, 140)	0.5	Free	-
B66	V54 (13, 140)	V61 (23, 140)	0.5	Free	-
B67	V61 (23, 140)	V62 (31, 140)	0.5	Free	-
B69	V62 (31, 140)	V12 (41, 140)	0.5	Free	-
B70	V63 (0, 150)	V44 (0, 150)	0.5	Fixed	-
B71	V63 (0, 150)	V64 (3.9, 150)	0.5	Free	-
B73	V64 (3.9, 150)	V41 (3.9, 150)	0.5	Free	-
B74	V65 (0, 150)	V63 (0, 150)	0.5	Fixed	-
B75	V65 (0, 150)	V66 (3.9, 150)	0.5	Free	-
B76	V66 (3.9, 150)	V64 (3.9, 150)	0.5	Free	-
B77	V67 (0, 140)	V65 (0, 150)	0.5	Fixed	-
B78	V67 (0, 140)	V53 (53, 140)	0.25	Free	-

* Loaded boundary.

Solid Objects

ID	Vertex IDs (x, y)	Boundary IDs	Baseline Nodal Spacing (x / y)	Material(s)/Water Regime(s)
	V30 (18,140) V31 (17,140) V32 (15,140) V33 (14,140) V34 (13,140)	B30 B31 B32 B33 B45		

S48*	V47 (13,140) V49 (18,140) V50 (19,140) V51 (21,140) V52 (23,140) V46 (31,140) V18 (33,140) V19 (32,140) V20 (31,140) V21 (30,140) V22 (28,140) V23 (27,140) V24 (26,140) V25 (24,140) V26 (23,140) V27 (22,140) V28 (21,140) V29 (19,140)	B49 B51 B53 B54 B55 B48 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28 B29	1 / 1	Concrete
S51*	V18 (33,140) V46 (31,140) V52 (23,140) V51 (21,140) V50 (19,140) V49 (18,140) V47 (13,140) V54 (13,140) V55 (18,140) V56 (19,140) V57 (21,140) V58 (24,140) V59 (27,140) V60 (32,140)	B48 B55 B54 B53 B51 B49 B56 B58 B59 B60 B61 B62 B63 B65	1 / 1	Dense Sand
S61*	V12 (41,140) V13 (40,140) V14 (39,140) V15 (37,140) V16 (36,140) V17 (35,140) V18 (33,140) V60 (32,140) V59 (27,140) V58 (24,140) V57 (21,140) V56 (19,140) V55 (18,140) V54 (13,140) V61 (23,140) V62 (31,140)	B12 B13 B14 B15 B16 B17 B65 B63 B62 B61 B60 B59 B58 B66 B67 B69	1 / 1	Made Ground: Loose organic GRAVEL
S66*	V41 (3.9,150) V42 (2.6,150) V43 (1.3,150) V44 (0,150) V63 (0,150) V64 (3.9,150)	B41 B42 B43 B70 B71 B73	1 / 1	Tarmac hardstanding
S69*	V64 (3.9,150) V63 (0,150) V65 (0,150) V66 (3.9,150)	B71 B74 B75 B76	1 / 1	Dense Sand
	V65 (0,150) V67 (0,140) V1 (0,130) V2 (53,130) V53 (53,140) V3 (53,140) V4 (51,140) V5 (50,140) V6 (49,140) V8 (48,140) V9 (45,140) V10 (44,140)	B77 B44 B1 B2 B57 B3 B4 B5 B6 B8 B9 B10		

	V11 (42,140)	B11		
	V12 (41,140)	B69		
	V62 (31,140)	B67		
	V61 (23,140)	B66		
	V54 (13,140)	B56		
	V47 (13,140)	B45		
	V34 (13,140)	B34		
	V35 (12,140)	B35		
	V36 (10,140)	B36		
	V37 (9,140)	B37		
	V38 (7.7,140)	B38		
	V39 (6.4,150)	B39		
	V40 (5.1,150)	B40		
	V41 (3.9,150)	B73		
	V64 (3.9,150)	B76		
	V66 (3.9,150)	B75		

* Loaded solid (self weight).

Water Table *(all distances in m)*

Water Table Status	Vertices (x, y)
Enabled	(0, 137) (52.6784, 137)

Water Regimes *(potentials in m, pressures in kN/m² (kPa))*

(No water regime defined)

Materials *(unit weights (weight densities) in kN/m³, strengths in kN/m² (kPa), angles in degrees, datum level in m, undrained strength gradient in kN/m² (kPa)/m)*

Mohr-Coulomb Material(s)

Key	Name	Unit Weight (Saturated Unit Weight)	Drainage Behaviour	c' (φ')	c _u (datum) (gradient) (grid)
	Concrete	23 (23)	Always undrained	0 (0)	10000* (0*) (0*) (-)
	Dense Sand	18 (21)	Always drained	0* (45*)	0 (0) (0) (-)
	Made Ground: Loose organic GRAVEL	14 (19)	Always drained	0* (28.5*)	0 (0) (0) (-)
	Tarmac hardstanding	23 (23)	Always undrained	0 (0)	1000* (0*) (0*) (-)
	Medium Dense SAND1	16 (20)	Always drained	3* (32*)	0 (0) (0) (-)

*Property used in Scenario 4 (described in this report).

Partial Factors

Factor	User	EC7 DA1/1	EC7 DA1/1	EC7 DA1/2*
Unfavourable: permanent	1	1.35	1.35	1
Unfavourable: variable	1	1.5	1.5	1.3
Unfavourable: accidental	1	1	1	1
Favourable: permanent	1	1	1	1
Favourable: variable	1	0	0	0
Favourable: accidental	1	0	0	0
c'	1	1	1	1.25
tanφ'	1	1	1	1.25
c _u	1	1	1	1.4

Factor	EC7 DA1/2			
Unfavourable: permanent	1			
Unfavourable: variable	1.3			
Unfavourable: accidental	1			
Favourable: permanent	1			
Favourable: variable	0			
Favourable: accidental	0			
c'	1.25			
$\tan\phi'$	1.25			
c_u	1.4			

*These partial factors were used in Scenario 4 (described in this report).

Loads *(normal and shear loads in kN/m² (kPa))*

Boundary Objects

Loaded Object	Type	Loading Type	Adequacy?	Normal	Shear
B42	Variable Load	unfavourable	true	20	0
B43	Variable Load	unfavourable	true	20	0

Solid Objects

Loaded Object	Type	Loading Type	Adequacy?
S48	Permanent (unfactored self weight: 23 kN/m ³)	neutral	true
S51	Permanent (unfactored self weight: 18 kN/m ³)	neutral	true
S61	Permanent (unfactored self weight: 14 kN/m ³)	neutral	true
S66	Permanent (unfactored self weight: 23 kN/m ³)	neutral	true
S69	Permanent (unfactored self weight: 18 kN/m ³)	neutral	true
S71	Permanent (unfactored self weight: 20 kN/m ³)	neutral	true
S72	Permanent (unfactored self weight: 16 kN/m ³)	neutral	true





This report was generated by LimitState:GEO3.6.1.26217 - limitstate.com

About this Report

This report has been generated using LimitState:GEO, a software application capable of directly identifying the critical collapse mechanism for a wide variety of geotechnical stability problems, including those involving slopes, retaining walls, footings etc.

The software utilizes the Discontinuity Layout Optimization (DLO) procedure to obtain a solution (Smith and Gilbert 2007). The main steps involved are: (i) distribution of nodes across the problem domain; (ii) connection of every node to every other node with potential discontinuities (e.g. slip-lines); (iii) application of rigorous optimization techniques to identify the critical subset of potential discontinuities, and hence also the critical failure mechanism and margin of safety.

The accuracy of the DLO solution is controlled by the specified nodal density. Within the set of all possible discontinuities linking pairs of nodes, all potential translational failure mechanisms are considered, whether anticipated or not by the engineer. Failure mechanisms involving rotations along the edges of solid bodies in the problem can also be identified. Thus in this case the solution identified by the DLO procedure is guaranteed to be the most critical solution for the problem posed. This means that there is no need to prescribe any aspect of the collapse mechanism prior to an analysis, or to separately consider different failure modes. The critical mechanism and collapse load factor are determined according to the well established upper bound theorem of plasticity.

LimitState:GEO reports the solution to a problem both visually as a collapse mechanism and numerically in terms of an Adequacy Factor, which is defined as the factor by which specified loads must be increased, or material strengths decreased, in order for the system under consideration to reach a collapse state.

REFERENCE

Smith, C.C. and Gilbert, M. (2007) Application of discontinuity layout optimization to plane plasticity problems, Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, Vol. 463, 2086, pp 2461-2484.

Summary

Name	Date of Analysis	Name of Engineer	Organization
Dicken Green Mill	Mon Apr 13 2026	Colin Wardle	LK Consults Ltd.

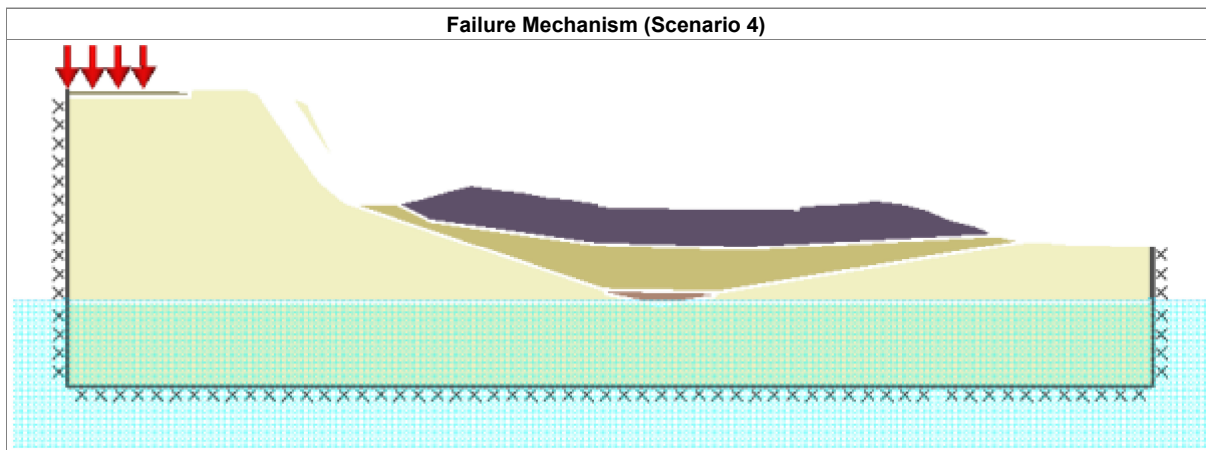
Reference #	Location	Map Reference	Tags
LKC251701	Profile C-C'		

Comments

Target Nodal Density	Nodal Spacing Scale Factor	Water	Model Translational Failures?	Model Rotational Failures?	Seismic Accelerations: Horiz. / Vert. (g)
Medium (500 nodes)	0.65006	Enabled	True	Along edges	None

Scenario	Partial Factor Set	Short / Long Term?**	Analysis Type	Adequacy Factor
1	Unity	Short Term	Factor Strength(s)	0.5562
2	EC7 DA1/1	Short Term	Factor Strength(s)	0.5562
3	EC7 DA1/1	Long Term	Factor Strength(s)	0.5562
4*	EC7 DA1/2	Short Term	Factor Strength(s)	0.445
5	EC7 DA1/2	Long Term	Factor Strength(s)	0.445

*This report provides details of this scenario, which has been identified as the most critical. **For Mohr Coulomb materials with Drainage Behaviour specified as 'drained/undrained', undrained properties are used in a short term analysis, and drained properties are used in a long term analysis.



Analysis Options

Factor Strength(s)

Solution Tolerance (%)	Automatic Adequacy on Load(s)	Factor on Load(s)	Artificial Cohesion (kN/m ² (kPa))
1	True	1	0.1

Geometry

(all distances in m)

All Geometrical Objects

No. of Vertices (V)	No. of Boundaries (B)	No. of Solids (S)
69	78	7

Boundary Objects

ID	Start Vertex ID (x, y)	End Vertex ID (x, y)	Baseline Nodal Spacing	Support Type	Material(s)
B1	V1 (0, 130)	V62 (38, 130)	0.5	Fixed	-
B2	V2 (47, 130)	V68 (47, 140)	0.5	Fixed	-
B3	V3 (47, 140)	V4 (46, 140)	0.5	Free	-
B4	V4 (46, 140)	V5 (45, 140)	0.5	Free	-
B5	V5 (45, 140)	V6 (44, 140)	0.5	Free	-
B6	V6 (44, 140)	V7 (43, 140)	0.5	Free	-
B7	V7 (43, 140)	V8 (42, 140)	0.5	Free	-
B8	V8 (42, 140)	V9 (41, 140)	0.5	Free	-
B9	V9 (41, 140)	V51 (41, 140)	0.5	Free	-
B10	V10 (40, 140)	V11 (38, 140)	0.5	Free	-
B11	V11 (38, 140)	V12 (37, 140)	0.5	Free	-
B12	V12 (37, 140)	V13 (36, 140)	0.5	Free	-
B13	V13 (36, 140)	V14 (35, 140)	0.5	Free	-
B14	V14 (35, 140)	V15 (34, 140)	0.5	Free	-
B15	V15 (34, 140)	V16 (33, 140)	0.5	Free	-
B16	V16 (33, 140)	V17 (32, 140)	0.5	Free	-
B17	V17 (32, 140)	V18 (31, 140)	0.5	Free	-
B18	V18 (31, 140)	V19 (30, 140)	0.5	Free	-
B19	V19 (30, 140)	V20 (29, 140)	0.5	Free	-
B20	V20 (29, 140)	V21 (27, 140)	0.5	Free	-

B21	V21 (27, 140)	V22 (26, 140)	0.5	Free	-
B22	V22 (26, 140)	V23 (25, 140)	0.5	Free	-
B23	V23 (25, 140)	V24 (24, 140)	0.5	Free	-
B24	V24 (24, 140)	V25 (23, 140)	0.5	Free	-
B25	V25 (23, 140)	V26 (22, 140)	0.5	Free	-
B26	V26 (22, 140)	V27 (21, 140)	0.5	Free	-
B27	V27 (21, 140)	V28 (20, 140)	0.5	Free	-
B28	V28 (20, 140)	V29 (19, 140)	0.5	Free	-
B29	V29 (19, 140)	V30 (18, 140)	0.5	Free	-
B30	V30 (18, 140)	V31 (16, 140)	0.5	Free	-
B31	V31 (16, 140)	V32 (15, 140)	0.5	Free	-
B32	V32 (15, 140)	V33 (14, 140)	0.5	Free	-
B33	V33 (14, 140)	V34 (13, 140)	0.5	Free	-
B34	V34 (13, 140)	V35 (12, 140)	0.5	Free	-
B35	V35 (12, 140)	V36 (11, 140)	0.5	Free	-
B36	V36 (11, 140)	V37 (9.9, 140)	0.5	Free	-
B37	V37 (9.9, 140)	V38 (8.8, 150)	0.5	Free	-
B38	V38 (8.8, 150)	V39 (7.7, 150)	0.5	Free	-
B39	V39 (7.7, 150)	V40 (6.6, 150)	0.5	Free	-
B40	V40 (6.6, 150)	V41 (5.5, 150)	0.5	Free	-
B41	V41 (5.5, 150)	V42 (4.4, 150)	0.5	Free	-
B42	V42 (4.4, 150)	V43 (3.3, 150)	0.5	Free	-
B43*	V43 (3.3, 150)	V44 (2.2, 150)	0.5	Free	-
B44*	V44 (2.2, 150)	V45 (1.1, 150)	0.5	Free	-
B45*	V45 (1.1, 150)	V46 (0, 150)	0.5	Free	-
B46	V1 (0, 130)	V67 (0, 140)	0.5	Fixed	-
B47	V47 (0, 150)	V46 (0, 150)	0.5	Fixed	-
B48	V47 (0, 150)	V48 (5.4, 150)	0.5	Free	-
B49	V48 (5.4, 150)	V41 (5.5, 150)	0.5	Free	-
B50	V49 (0, 150)	V47 (0, 150)	0.5	Fixed	-
B51	V49 (0, 150)	V50 (5.4, 150)	0.5	Free	-
B52	V50 (5.4, 150)	V48 (5.4, 150)	0.5	Free	-
B53	V25 (23, 140)	V53 (23, 140)	0.5	Free	-
B54	V51 (41, 140)	V10 (40, 140)	0.5	Free	-
B56	V52 (32, 140)	V17 (32, 140)	0.5	Free	-
B57	V53 (23, 140)	V54 (24, 140)	0.5	Free	-
B58	V54 (24, 140)	V55 (25, 140)	0.5	Free	-
B59	V55 (25, 140)	V56 (28, 140)	0.5	Free	-
B60	V56 (28, 140)	V57 (30, 140)	0.5	Free	-
B61	V57 (30, 140)	V58 (31, 140)	0.5	Free	-
B62	V58 (31, 140)	V52 (32, 140)	0.5	Free	-
B63	V33 (14, 140)	V59 (16, 140)	0.5	Free	-
B64	V59 (16, 140)	V60 (23, 140)	0.5	Free	-
B65	V60 (23, 140)	V61 (30, 140)	0.5	Free	-
B66	V61 (30, 140)	V51 (41, 140)	0.5	Free	-
B67	V35 (12, 140)	V65 (23, 140)	0.5	Free	-
B68	V62 (38, 130)	V2 (47, 130)	0.5	Fixed	-
B70	V64 (26, 140)	V72 (27, 140)	0.5	Free	-
B72	V65 (23, 140)	V71 (25, 140)	0.5	Free	-
B73	V66 (28, 140)	V8 (42, 140)	0.5	Free	-
B74	V65 (23, 140)	V66 (28, 140)	0.5	Free	-
B75	V67 (0, 140)	V49 (0, 150)	0.5	Fixed	-
B76	V68 (47, 140)	V3 (47, 140)	0.5	Fixed	-
B82	V71 (25, 140)	V64 (26, 140)	0.5	Free	-
B83	V72 (27, 140)	V66 (28, 140)	0.5	Free	-
B84	V72 (27, 140)	V68 (47, 140)	0.25	Free	-
B85	V67 (0, 140)	V71 (25, 140)	0.25	Free	-
B86	V71 (25, 140)	V72 (27, 140)	0.25	Free	-

* Loaded boundary.

Solid Objects

ID	Vertex IDs (x, y)	Boundary IDs	Baseline Nodal Spacing (x / y)	Material(s)/Water Regime(s)
S47*	V41 (5.5,150) V42 (4.4,150) V43 (3.3,150) V44 (2.2,150) V45 (1.1,150) V46 (0,150) V47 (0,150) V48 (5.4,150)	B41 B42 B43 B44 B45 B47 B48 B49	1 / 1	Concrete
S50*	V48 (5.4,150) V47 (0,150) V49 (0,150) V50 (5.4,150)	B48 B50 B51 B52	1 / 1	Dense Sand
S53*	V17 (32,140) V18 (31,140) V19 (30,140) V20 (29,140) V21 (27,140) V22 (26,140) V23 (25,140) V24 (24,140) V25 (23,140) V53 (23,140) V54 (24,140) V55 (25,140) V56 (28,140) V57 (30,140) V58 (31,140) V52 (32,140)	B17 B18 B19 B20 B21 B22 B23 B24 B53 B57 B58 B59 B60 B61 B62 B56	1 / 1	Tarmac Hardstanding
S60*	V51 (41,140) V10 (40,140) V11 (38,140) V12 (37,140) V13 (36,140) V14 (35,140) V15 (34,140) V16 (33,140) V17 (32,140) V52 (32,140) V58 (31,140) V57 (30,140) V56 (28,140) V55 (25,140) V54 (24,140) V53 (23,140) V25 (23,140) V26 (22,140) V27 (21,140) V28 (20,140) V29 (19,140) V30 (18,140) V31 (16,140) V32 (15,140) V33 (14,140) V59 (16,140) V60 (23,140) V61 (30,140)	B54 B10 B11 B12 B13 B14 B15 B16 B56 B62 B61 B60 B59 B58 B57 B53 B25 B26 B27 B28 B29 B30 B31 B32 B63 B64 B65 B66	1 / 1	Made Ground: Loose organic GRAVEL
S67*	V66 (28,140) V8 (42,140) V9 (41,140) V51 (41,140) V61 (30,140) V60 (23,140) V59 (16,140) V33 (14,140) V34 (13,140) V35 (12,140) V65 (23,140)	B73 B8 B9 B66 B65 B64 B63 B33 B34 B67 B74	1 / 1	Loose Sand

S65	V64 (26,140) V71 (25,140) V65 (23,140) V35 (12,140) V36 (11,140) V37 (9.9,140) V38 (8.8,150) V39 (7.7,150) V40 (6.6,150) V41 (5.5,150) V48 (5.4,150) V50 (5.4,150) V49 (0,150) V67 (0,140) V1 (0,130) V62 (38,130) V2 (47,130) V68 (47,140) V3 (47,140) V4 (46,140) V5 (45,140) V6 (44,140) V7 (43,140) V8 (42,140) V66 (28,140) V72 (27,140)	B82 B72 B67 B35 B36 B37 B38 B39 B40 B49 B52 B51 B75 B46 B1 B68 B2 B76 B3 B4 B5 B6 B7 B73 B83 B70	1 / 1	Medium Dense SAND 1
S66	V65 (23,140) V71 (25,140) V64 (26,140) V72 (27,140) V66 (28,140)	B72 B82 B70 B83 B74	1 / 1	Firm Clay

* Loaded solid (self weight).

Water Table (all distances in m)

Water Table Status	Vertices (x, y)
Enabled	(0, 137) (47.2762, 137)

Water Regimes (potentials in m, pressures in kN/m² (kPa))

(No water regime defined)

Materials (unit weights (weight densities) in kN/m³, strengths in kN/m² (kPa), angles in degrees, datum level in m, undrained strength gradient in kN/m² (kPa)/m)

Mohr-Coulomb Material(s)

Key	Name	Unit Weight (Saturated Unit Weight)	Drainage Behaviour	c' (φ')	c _u (datum) (gradient) (grid)
	Concrete	23 (23)	Always undrained	0 (0)	10000* (0*) (0*) (-)
	Dense Sand	18 (21)	Always drained	0* (45*)	0 (0) (0) (-)
	Tarmac Hardstanding	23 (23)	Always undrained	0 (0)	1000* (0*) (0*) (-)
	Made Ground: Loose organic GRAVEL	14 (19)	Always drained	0* (28.5*)	0 (0) (0) (-)
	Loose Sand	14 (19)	Always drained	0* (30*)	0 (0) (0) (-)
	Medium Dense SAND 1	165 (20)	Always drained	3* (32*)	0 (0) (0) (-)
	Firm Clay	20 (20)	Drained/undrained	3 (20)	60* (0*) (0*) (-)

*Property used in Scenario 4 (described in this report).

Partial Factors

Factor	Unity	EC7 DA1/1	EC7 DA1/1	EC7 DA1/2*
Unfavourable: permanent	1	1.35	1.35	1
Unfavourable: variable	1	1.5	1.5	1.3
Unfavourable: accidental	1	1	1	1
Favourable: permanent	1	1	1	1
Favourable: variable	1	0	0	0
Favourable: accidental	1	0	0	0
c'	1	1	1	1.25
$\tan\phi'$	1	1	1	1.25
c_u	1	1	1	1.4

Factor	EC7 DA1/2			
Unfavourable: permanent	1			
Unfavourable: variable	1.3			
Unfavourable: accidental	1			
Favourable: permanent	1			
Favourable: variable	0			
Favourable: accidental	0			
c'	1.25			
$\tan\phi'$	1.25			
c_u	1.4			

*These partial factors were used in Scenario 4 (described in this report).

Loads (normal and shear loads in kN/m² (kPa))

Boundary Objects

Loaded Object	Type	Loading Type	Adequacy?	Normal	Shear
B43	Variable Load	neutral	true	20	0
B44	Variable Load	neutral	true	20	0
B45	Variable Load	neutral	true	20	0

Solid Objects

Loaded Object	Type	Loading Type	Adequacy?
S47	Permanent (unfactored self weight: 23 kN/m ³)	neutral	true
S50	Permanent (unfactored self weight: 18 kN/m ³)	neutral	true
S53	Permanent (unfactored self weight: 23 kN/m ³)	neutral	true
S60	Permanent (unfactored self weight: 14 kN/m ³)	neutral	true
S67	Permanent (unfactored self weight: 14 kN/m ³)	neutral	true
S73	Permanent (unfactored self weight: 20 kN/m ³)	neutral	true

S74	Permanent (unfactored self weight: 165 kN/m ³)	neutral	true
S75	Permanent (unfactored self weight: 165 kN/m ³)	neutral	true
S76	Permanent (unfactored self weight: 20 kN/m ³)	neutral	true
S77	Permanent (unfactored self weight: 20 kN/m ³)	neutral	true



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