



FIRST STREET, MANCHESTER

REMEDIATION COMPLETION REPORT
FOR
ALAN JOHNSTON PARTNERSHIP LLP

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P10227

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Prepared for:
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This report has been prepared in accordance with GRM's Accredited Quality Procedures

If you have any queries regarding this report please contact the project manager in the first instance.

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1 INTRODUCTION

1.1 PREAMBLE

GRM Development Solutions Limited (GRM) has been appointed by Alan Johnston Partnership Ltd (Client's Agent) on behalf of Downing (Client) to prepare a Remediation Completion Report for the site located at First Street, Manchester. GRM Standard Limitations of Reporting are provided in Appendix A of this report.

The following documents have been used in the preparation of this report, and should be read in conjunction with this document;

- Cundall Johnston and Partnerships LLP (Cundall), 'Geotechnical and Geoenvironmental Assessment', dated 30/06/2016 (ref: 1011906.RPT.GL.004).
- Geotechnical Engineering Ltd, 'Factual Report On Ground Investigation', dated 12/07/2016 (ref: 31847).
- Cundall, 'Detailed Remediation and Verification Strategy', dated 09/08/2016 (ref: 1011906.RPT.GL.006).
- Cundall, 'Supplementary Ground Investigation Report', dated 12/10/2016 (ref: 1011906.RPT.GL.007).

This Remediation Completion Report provides evidence to demonstrate that the remedial works to mitigate risks to controlled waters and human health receptors have been completed within the development area.

1.2 DEVELOPMENT PROPOSALS

The latest development proposal comprise the construction of residential apartment blocks up to 45 stories in height, with ground floor commercial units. Areas of soft landscaping are due to be included at a later date. A proposed development layout is included in Appendix B.

It should be noted that only three of the four blocks are currently under construction with the fourth, Block C, to be completed at a future date.

This report is provided pursuant to the partial discharge of condition 8 of planning permission 125573/FO/2019, relating to the remedial measures undertaken to date.

2 BACKGROUND INFORMATION

Site Location (address).	The site is located approximately 1km south of Manchester city centre. A Site Location and Boundary Plan is included in Appendix C.	
National Grid Reference.	SJ 838 972.	
Site Area (Ha).	1.7.	
Site Setting.	The site comprises two disused parcels of land, divided by Newcastle Street running north-south, within an urban setting. The site is bound by Hulme Street to the north, Wilmot Street to the east, Chester Street to the south and Medlock Street to the west.	
Site History.	Historically the site was a mix of residential and industrial land uses. The site was also recorded to be subjected to bomb damage during WWII. Based upon a 1968 Fire Insurance Plan, a potential remnant air raid shelter and two (infilled) basements were recorded. A plan showing these areas is presented in Appendix D.	
Geology.	· Topsoil was recorded at the south western extents between 0.2 and 0.4m thick. · Hardstanding was recorded elsewhere as concrete or tarmac/adam/asphalt. · Made ground was recorded beneath the near surface soils as variable clay, sand and gravel with brick, concrete, cobbles, ash, wood and infrequent wire to a maximum depth of 3.75m bgl. · Glaciofluvial Deposits recorded beneath the made ground to depths between 1.35 and 5.10m bgl, as gravelly sand to sand and gravel with occasional clay pockets and layers. · Glacial Till recorded as stiff sandy gravelly clay to depths of 7.80m bgl. · Chester Pebble Beds Formation (sandstone) was proven beneath the superficial deposits as a weathered as clayey sand to sand grading onto extremely weak to medium strong sandstone.	
Hydrogeology.	Glaciofluvial Deposits	Secondary A Aquifer
	Glacial Till	Unproductive Strata (updated to Secondary (Undifferentiated) Aquifer).
	Chester Pebble Beds Formation	Principal Aquifer.
	Groundwater was proven within the shallow made ground and Glaciofluvial Deposits between 3.5m and 6.0m bgl and separately within the bedrock between 15m and 20.27m bgl. Given the presence of the cohesive Glacial Till it was considered that the two water bodies were not in vertical continuity.	
Hydrology.	River Medlock located 162m north and is wholly culverted at the closest point to the site.	



Potential Soil Contamination Sources.	· Chemical testing of the made ground recorded elevated concentrations of lead above the threshold concentration of 310mg/kg between 330mg/kg and 990mg/kg in seven of the eleven made ground samples tested which suggested that lead was pervasive across the site. · Asbestos fibres were recorded in approximately 20% of made ground samples analysed with concentrations recorded between 0.001% and 1.485% w/w of crocidolite.
Potential Ground Gas Sources (including Radon).	The site was classified as Characteristic Situation 1 (CS1) for which no gas protection measures are required. The site does not lie within a radon affected area.
Water Supply Pipes.	Due to the presence of made ground and elevated concentrations of hydrocarbons and organic contamination (SVOCs) a Water Pipe Risk Assessment is required.

3 REMEDIATION STRATEGY

Elevated lead concentrations and asbestos fibres were recorded in several locations; however, it was concluded that the risk posed to end-users would be mitigated by the extensive presence of hardstanding and the use of capping in the limited areas of soft landscaping.

It was also considered that there was a potential risk to site workers, adjacent sites and the general public during development works from the potential release of asbestos fibres.

No risks to controlled waters were identified.

Therefore, the objectives of the remedial strategy have been set out below;

- Dust and fibre monitoring to be established at the work boundaries.
- Control measures to prevent or minimise off-site migration of dust and fibres during earthworks (i.e., wetting materials/stockpiles and sheeting of soil stockpiles).
- Removal of sub-structures (basements) and obstructions and inspection of soils for unexpected contamination. Where it is suspected that contaminated soils are present, these need to be excavated separately, stockpiled such as not to cause cross contamination (i.e. the use of bunds and physical sealing) and subjected to further analysis and assessment as appropriate.
- Control of waste soils to prevent the potential for cross-contamination and appropriate classification as discussed in Section 4.2.2 within the Cundall Remediation Strategy.
- Use of appropriate water supply pipes.

4 VERIFICATION WORKS

The remedial works were carried out and documented by MPB Structures Ltd (groundworkers) and the information supplied has been used within this report.

4.1 SITE WORKS

Following the removal of basements and sub-surface obstructions site levels were cut to meet sub-formation levels to accommodate the proposed piling mat. Plans showing the depth of the Mass Dig for substructure removal and final Sub-Formation Levels are presented in Appendix E.

A photographic record of site works is presented in Appendix F.

The initial area of cut was taken from the south eastern area and the arisings were stockpiled in the north eastern part for off-site disposal.

Sub-surface obstructions were dug out and the resultant hardcore was crushed on-site and placed in an area to the east of the site to be used as the pile mat. A second smaller area of site won crush was placed in an area to the central west for the pile mat. The certification for the crushed soils is included in Appendix G. The results showed that the soils were classified as 6F2.

The majority of the material stockpiled was concrete which was then re-used, any residual soils were stockpiled for off-site disposal.

Plans showing the material movements are presented in Appendix H.

During the earthworks, air monitoring stations were located around the perimeter of the site and were repositioned on a regular basis over the monitoring period. The monitoring was carried out between 24th January and 11th February 2022.

The results of the monitoring showed that no asbestos fibre release occurred that exceeded the control limit of <0.01f/ml. The asbestos air monitoring reports are included in Appendix I.

4.1.1 Precautionary Hotspot Removal

Prior to the removal of sub-structures and reduction of site levels, a number of precautionary hotspot excavations were undertaken at the locations outlined in Appendix J. The soils from these locations were stockpiled prior to off-site disposal.

A total of four samples (DN4186/15 – DN4186/18) were taken from hotspot stockpiles for waste disposal assessment. The results are presented in Appendix K.

4.1.2 Basement Excavations

The previous report identified a remnant air-raid shelter and former basement areas on-site. A plan showing these areas is presented in Appendix D.

When investigating these areas, the former air-raid shelter was found to have been infilled with a mixture of brick, concrete, sand and clay, and there were remnant artifacts uncovered, but no sub-surface slabs identified within this area.

Within the area of the former basement to the east, the backfill materials were excavated, and the hardcore arisings were segregated and crushed for re-use. The full depth of the basement was exposed (c. 2.3m bgl) to the basement floor slab. The basement slab was broken out and the concrete was crushed. The basement area was then backfilled with the site-won crush.

The potential basement noted within the centre of the site was investigated and no evidence of a basement or sub-surface structures were identified.

4.2 WASTE MANAGEMENT

Based upon the waste notes provided an approximate total of 13,080m³ of material was removed from the site.

This comprised 287m³ from precautionary hotspot excavations and 12,793m³ from general cut required to meet development levels.

A total volume of 9,710m³ was disposed of by O'Shea and Sons Waste Management as Non-Hazardous Waste (EWC 17.05.04) to Harwood Quarry, Bolton BL2 4LT between 28th and 31st January 2022.

A total of 77m³ was disposed by W. Maher & Sons Ltd as Non-hazardous waste to Salford Road yard.

A small proportion of soils (approximately 16m³) was classified as Hazardous Waste and was sent to Whitemoss Landfill site, Skelmersdale WN8 9TH by W. Maher & Sons Ltd.

An approximate volume of 3,200m³ was disposed by W. Maher & Sons Ltd as inert waste to three locations; Ashton Old Road, Salford Road yard and Fletcher Bank tip.

A selection of waste transfer notes and waste consignment notes are presented in Appendix L. A full set of waste notes can be made available upon request.

4.3 UNEXPECTED CONTAMINATION

The groundworker has confirmed that no unexpected contamination has been recorded.

4.4 SOIL CAPPING FOR SOFT LANDSCAPING AREAS

The original development plans included the four buildings with hard landscaping and infrastructure. However, the landscaping plans have not been finalised and are now indicated to include limited areas of soft landscaping.

Given the lack of topsoil and subsoils at the site, it is considered that the importation of soils will be required for planting. As these areas are small, the risk from residual asbestos and lead is considered to be minimal and the thickness of imported soils will be dependent on the planting requirements and will be advised by the landscaping plan, which is to be confirmed.

It was recommended that the quality of the materials imported for the use in the landscaping areas was assessed to confirm that the soils imported are suitable for use and will not present a risk to controlled waters and future site users and building materials. The criteria for validation of these materials is set out below;

- Topsoil is certified to British Standard BS3882:2015.
- Subsoil is certified to British Standard BS8601:2013.
- Chemical testing of imported soils as set out in the table below. The results will be compared against the Remedial Targets presented in Appendix M.

Table 1. Soil Chemical Testing Frequencies

Source	Testing Frequency	Suite of testing
Site-won soils to be re-used.	1 per 100m ³	Asbestos screen test.
Imported virgin quarried material	1 or 2 depending on the type of stone utilised, to confirm the nature of the material.	Metals suite.
Imported crushed hardcore, stone, brick	Minimum 3 per source or 1 per 250m ³ (whichever is greater)	Metals suite, PAHs and asbestos screen.
Imported Greenfield / Manufactured soils	Minimum 3 per source or 1 per 200m ³ (whichever is greater)	Metals suite, PAHs and asbestos screen.
Imported Brownfield / Screened soils	Minimum 6 per source or 1 per 50m ³ (whichever is greater)	Metals suite, PAHs and asbestos screen.

Once these works are completed, it will be reported under a separate cover.

5 FURTHER WORK

5.1 WATER SUPPLY PIPES

Cundall considered that where water supply pipes were to be placed in made ground soils would require upgraded supply pipes in clean backfill. A United Utilities water supply pipe risk assessment is currently being prepared with requirements and confirmation of installation to be reported under a separate cover.

5.2 SOIL VALIDATION FOR SOFT LANDSCAPING

Once the landscape design is finalised validation of the soils used in the soft landscaping areas will be undertaken as outlined in Section 4.4 and reported under separate cover.



6 CONCLUSIONS

The works completed to date are considered to be in line with the remedial strategy and are applicable to the whole site.

Only Blocks A, B and D are currently under construction with Block C to be completed at a later date. Validation of the outstanding items will be provided and reported under separate covers when completed.



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GENERAL APPRAISAL COMMENTS

i INFORMATION SOURCES

Where available the following sources have been used for the identification and assessment of potential ground hazards:

- Relevant British Standards
- British Geological Survey (BGS) Geology Map Scale 1:10,000 for local area
- British Geological Survey (BGS) Geology Map Scale 1:50,000/1:63,320
- BGS Memoir
- BGS Borehole Records
- BGS online viewer: <http://www.bgs.ac.uk/data/mapViewers/home.html>
- Environment Agency Groundwater Vulnerability Maps
- Historical Ordnance Survey (OS) Maps
- Environmental Data Report
- Environment Agency Website: <http://www.environment-agency.gov.uk/>
- Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites, UKWIR, 2010.
- Coal Authority Records / Coal Mining Report
- DEFRA/Environment Agency Contaminated Land publications and DoE Industry Profiles
- BRE Guide BR211 (2015), 'Radon: Guidance on protective measures for new buildings'
- HPA-RPD-033 (2007), 'Indicative Atlas of Radon in England and Wales'
- PHE-CRCE-032 (PHE, 2017), Radon in Homes in England: 2016 Data Report
- CIRIA C665 'Assessing risks posed by hazardous ground gases to buildings'
- BS8485:2015, 'Code of Practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings'
- Other technical references used throughout this document are detailed in the text.

ii CONTAMINANTS OF CONCERN

The DoE Industry Profiles are normally used to assess likely contaminants from past land use and potential nearby industrial sources. For land uses where no profile is available, likely contaminants of concern are selected by GRM based on past experience of similar sites, a general screening suite of contaminants covered by CLEA and common contaminants from the Industry Profiles.

- | | | |
|------------|-------------------|--|
| · Arsenic | · Copper | · Water soluble sulphate |
| · Cadmium | · Nickel | · PAH (polycyclic aromatic hydrocarbons) |
| · Chromium | · Zinc | |
| · Lead | · Phenols | |
| · Mercury | · cyanide (total) | |
| · Selenium | · pH | |

Asbestos and PCBs are listed in the vast majority of profiles. PCBs are listed as the profiles expect electricity substations and switch boxes on all industrial sites. There is the potential for asbestos containing material to be mixed up with made ground, following any demolition works.

iii CONCEPTUAL MODEL METHODOLOGY

The consideration of contamination is based upon the principles of risk assessment, using the 'source-pathway-receptor' model in order to establish the presence, or potential presence, of a pollutant linkage.

To create a risk, contamination must have the potential to cause harm to susceptible targets or receptors such as humans, the water environment or the built environment. The potential for harm to occur requires three conditions to be satisfied to form a pollutant linkage:

- The presence of substances that may cause harm (SOURCE).
- The presence of a target which may be harmed (RECEPTOR).
- The existence of a plausible migration route between the source and the receptor (PATHWAY).

In the absence of a plausible pollutant linkage there is no risk. Where a potential linkage is identified in order for it not to pose a risk to the identified receptor it must be broken.

iv INTRUSIVE INVESTIGATION SAMPLING METHODOLOGY

The ground investigation (including fieldwork, sampling, monitoring and laboratory analyses) has been designed to identify and assess potential ground related problems and to allow cost effective solutions to be advised. It has been planned on the basis of the desk study, site inspection and the proposed development layout (where available). All fieldwork and soil descriptions were carried out in general accordance with relevant British Standards.

The exploratory holes have been positioned and advanced to depths to determine the general ground/groundwater/gas conditions below the site. A general grid pattern has been adopted, where possible, to provide sufficient information based on the current proposed layout scheme. Some holes have been targeted at particular hazards identified in the Phase I assessment. The resultant exploratory hole density is considered to be commensurate with the complexity of the site conditions and detail of information required for this phase of the investigation.

v GROUND GAS RISK ASSESSMENT METHODOLOGY

Gas monitoring programmes undertaken by GRM are designed to broadly comply with the recommendations outlined in CIRIA Report C665 'Assessing risks posed by hazardous ground gas to buildings' (2007) and BS8576 'Guidance on Investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOCs) (2013).

To assess the risks posed by ground gases such as radon, carbon dioxide and methane, the relevant current guidance has been used. For radon the site has been assessed following the guidelines in 'Radon: guidance on protective measures for new dwellings (BR211: 2015)'. For methane and carbon dioxide the primary guidance document used to determine if protection measures are required is *BS8485:2015 Code of practice for the design of protective measures from methane and carbon dioxide ground gases for new buildings*. This uses hazardous gas flow rates (Q_{hg}), which are gas concentrations multiplied by borehole flow rates, to derive a Gas Flow Rate (GSV) for the site. The gas regime is then determined based on the GSV and other limiting factors such as gas concentrations.

Where flow is not recorded during the monitoring a default flow rate of 0.1l/hr will be used in the assessment to produce a positive result.

vi HUMAN HEALTH RISK ASSESSMENT METHODOLOGY

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Guidance contained in the Environment Agency's CLEA Reports has been used to assess the risks posed to human health.

For residential developments that include domestic gardens the default Tier 1 Assessment Criteria (TAC) for 'residential land with plant uptake' are used, i.e. a female with a start age class of one and an end age class of six. All pathways are considered including the consumption of home-grown vegetables.

For residential developments that do not include domestic gardens the default Tier 1 Assessment Criteria (TAC) for 'residential land without plant uptake' are used, i.e. a female with a start age class of one and an end age class of six. All pathways are considered except the consumption of home-grown vegetables. For commercial/industrial developments the default Tier 1 Assessment Criteria (TAC) for 'commercial/industrial' are used, i.e. a female with a start age class of sixteen and an end age class of eighteen. All pathways are considered except the consumption of home-grown vegetables.

The TAC used by GRM include Category 4 Screening Levels (C4SLs) published by DEFRA, values calculated by GRM using the CLEA v1.071 risk assessment, and values and Suitable for Use Levels (S4UL) developed by LQM/CIEH. The TAC used in the assessment are selected based on the lowest site specific SOM values returned as part of the chemical analysis.

Where soil chemical analysis results are found to exceed the TAC, Site-Specific Risk Assessments may be undertaken using the CLEA v1.071 risk assessment software using the age classes and pathways described above.

vii **RISK TO SITE WORKERS – GENERAL COMMENTS**

The risks to site workers are similar to those posed to site end users, although likely to be less severe due to the site workers' shorter exposure to the identified contamination. However, site workers (particularly groundworkers) are more likely to come into direct contact with contaminated soils due to the nature of their work. On this basis ground and construction workers should be provided with basic Personal Protective Equipment based on the site's general health and safety risk assessment, but including as a minimum safety footwear, gloves and overalls.

A site specific risk assessment should be carried out for all hazards identified within the ground investigation in accordance with current health and safety legislation. This assessment should identify any measures required to further reduce risks i.e. providing further Personal Protective Equipment, welfare facilities and if necessary preventing access to certain areas.

Demolition and dismantling of existing structures on the site must be carried out to a safe and acceptable standard, in accordance with current UK guidance and best practice. Whilst not ground related, asbestos and hazardous substances surveys should be conducted prior to any demolition.

Any unusual colours, odours and suspicious ground should be reported immediately to site management and then GRM.

Whilst this appraisal has considered the long-term effects of contamination, GRM can also help during the formulation of Health and Safety documentation, if required.

viii **CONTROLLED WATERS RISK ASSESSMENT METHODOLOGY**

Where the desk study and fieldwork do not reveal a potential source of contamination no leachate or groundwater testing will be performed. Where a potential source is identified the testing will comprise leachate testing on the material considered most likely to pose a risk, groundwater testing will be undertaken if water is present at shallow depth.

The UK Drinking Water Standards (UKDWS) or Environmental Quality Standards (EQS) are usually adopted for comparison with the leachate/groundwater test results. When the most sensitive receptor is considered to be the aquifer (groundwater) UKDWS will be adopted as the Initial Tier 1 screening values. Where the most sensitive receptor is a surface water feature the EQS values will be used as Initial Tier 1 Screening values.

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ix CONSTRUCTION MATERIALS RISK ASSESSMENT METHODOLOGY

The 'screening levels' adopted for the assessment of risk to construction materials are taken from the following documents:

- UK Water Industry Research (UKWIR) Contamination thresholds for sub-surface water pipes, for the protection of buried pipes.
- Building Research Establishment (BRE) Special Digest SD1 (2005), 'Concrete in Aggressive Ground', for the protection of buried concrete.

x WASTE DISPOSAL, SITE WASTE MANAGEMENT PLANS AND MATERIAL MANAGEMENT PLANS

Under current Waste Management Regulations, waste soil materials produced from the site will require characterisation to enable it to be disposed of correctly.

The chemical analysis results included in this report should be provided to the relevant landfill operators to establish the characterisation of the waste, confirm its suitability for landfill disposal and provide estimated costings. If material is classified as hazardous, then the site will need to be registered with the Environment Agency prior to the movement of the waste. Depending on the receiving landfill's current permit, further chemical analysis, incorporating Waste Acceptance Criteria (WAC) leachate analysis, may be required.

All materials removed from the site will be classified as 'waste' and therefore must be removed by a suitably licensed carrier of waste. This applies whether or not the waste is contaminated. All waste removed to landfill will attract Landfill Tax.

The developer/builder is likely to be classed as the waste producer and therefore, has a duty of care to ensure that all waste is disposed of appropriately. This includes ensuring the waste carrier is licensed and disposes of the waste to a suitably licensed landfill site. They are also required to keep a paper trail from 'cradle to grave' including copies of the waste disposal tickets.

Efficient materials management on site is recommended as it can lead to significant cost savings when compared to the traditional side casting or single stockpile of arisings. GRM can assist in the production of Material Management Plans under the CL:AIRE Definition of Waste: Code of Practice. The DoWCoP enables:

- The direct transfer and re-use of clean naturally occurring soil materials between sites, and
- The re-use of both contaminated and uncontaminated materials on their site of origin and between sites within defined Cluster projects.

GRM can also undertake the role of Qualified Person and submit the DoW CoP project Declaration.

Likewise making the site as volume neutral as possible will reduce the costs of development. Whilst not a statutory requirement, Site Waste Management Plans allow better waste management practices, help to reduce the amount of waste produced and identify best environmental disposal options. Implementing a Site Waste Management Plan (SWMP) can reduce costs (increasing business profits) and maximise resource efficiency.

xi GEOTECHNICAL ASSESSMENT GENERAL COMMENTS

Where finished floor levels of proposed structures have not been provided by the Client, then for the purposes of initial assessment, GRM will assume that finished levels will not vary appreciably from the existing ground levels. If the depths of any underground engineering works (i.e. sewers, pumping stations

etc.) are unknown they will not be taken in to account in the assessment and it will be assumed that any such works will not compromise foundation or ground stability.

Should the development proposals or finished levels be different from these assumptions then the comments/recommendations in the Geotechnical Assessment may require revising.

It should be noted that the results of window sampling and/or cable percussive boreholes may not give a true indication of a soils actual engineering properties (i.e. stability, mass structure etc). GRM consider that that prior to development trial pitting should be undertaken to confirm the recommendations in the Geotechnical Assessment.

xii GEOTECHNICAL ASSESSMENT – ENGINEERING GROUND TREATMENT

Near surface soils have the potential to be disturbed by weathering and site traffic. Precautions should always be taken to avoid this, as excessive disturbance may leads to more onerous floor slab designs, road cap thickness and increased amounts of off-site disposal etc.

Near surface soils may need treatment or reinforcing to allow safe movement of construction plant and labour. An assessment by the contractor should be undertaken once the type of machinery/plant needed to complete the development is known.

xiii GEOTECHNICAL ASSESSMENT – EXCAVATIONS

Excavation instability (over-break) can result in damage to existing services or structures (e.g. foundations, roads or boundary walls/fences) both on and off-site, as well as increased foundation concrete costs. In order to minimise this, all excavations deeper than 1.2m deep (or any excavation within 1.5m of any existing structure or service) should be supported. Full support should be provided to the full depth of all near vertically sided excavations in made ground, soft and very soft clays and granular soils. A reduction to intermediate support should be acceptable within firm and stiffer natural clays.

Wherever possible, man entry into excavations should be prevented; however, where this is not possible, entry to, and time spent in, excavations should be kept to a minimum.

The build program should be tailored to reflect the impact that deep excavations through potentially unstable strata can have on adjacent properties, so that they are not undermined.

All excavations on site should be in accordance with HSE guidelines and stability should be practically maintained at all times. Reference should be made to HSE construction information sheet No. 8 (Revision 1) 'Safety in Excavations'.

Care should be taken to ensure that falls from excavation faces do not adversely affect the integrity of foundation concrete.

If contaminated water enters excavations it should be removed and transported to an appropriate treatment facility by a suitably licensed carrier before construction begins.

xiv GEOTECHNICAL ASSESSMENT – SUBSTRUCTURES

Where practicable, existing buried construction should be fully removed; however, if this is not practicable all new foundations should be carried down to fully penetrate it and it should be broken well away from all new structures.

There may be existing structures and/or infrastructure in close proximity to the proposed development. New build foundations may be constructed next to pavements with existing underground services beneath them, or excavations may be required near existing footings associated with adjacent properties. These potential hazards need to be taken into consideration when designing foundations and the groundworker needs to be made aware of their potential impact during the redevelopment works. Foundations close to existing underground services or buildings may require alternative foundation techniques (such as piling) to protect the integrity of these structures.

The contractor for the works should carry them out in such a fashion so as to not cause excessive overbreak, concrete usage or undermine existing buildings/roads/ services that are to be retained.

xv **GEOTECHNICAL ASSESSMENT – SOAKAWAYS**

Soakaway testing in trial pits by GRM is broadly carried out in accordance with BRE DG 365 (2016). The testing comprises the excavation of a test pit to a suitable depth, and the placement of water into the pit. The level of water present is then monitored over time. For borehole installations, the permeability testing (falling head/rising head) is undertaken in accordance with BS5930.

If it is decided to proceed with the use of soakaway drainage, then the following general points should be noted:

- Soakaways should not be placed so that water can be discharged through potentially contaminated made ground.
- The Environment Agency may require soakaways to be sealed systems such that only roof run off falls to soakaway.
- Interceptors are likely to be required for soakaways for highway drainage. The adopting authority for the highways should be consulted at the earliest opportunity regarding the use of soakaways for highways drainage.
- Consideration of site levels and slopes should be taken into account during the design.
- The construction of all soakaways should be in accordance with the current building regulations.
- Soakaways should not be placed within 5m of a proposed building.
- Placement of soakaways needs to be considered so as to avoid ponding of water down slope.
- The base of a soakaway should not be below the highest recorded water level.
- The Environment Agency prefer 1m of dry soil to be present between the base of a soakaway and the water table to provide attenuation for contamination.

xvi **GEOTECHNICAL ASSESSMENT – FOUNDATIONS**

If soft or hard spots are encountered during foundation excavation then they should be replaced with suitably compacted material or the footings deepened to suitable strata, to avoid differential settlement.

If strata of differing bearing character (e.g. sand and clay) are encountered at foundation levels within the excavations for a single plot then the excavation depths should be altered as appropriate to ensure the foundations rest on a single stratum, or strata that will not induce differential settlement. Where this is impractical then GRM should be contacted to assess a reinforced concrete detail or an alternative foundation solution (e.g. piles or vibro-replacement).

NOTES ON LIMITATIONS

General

GRM Development Solutions Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement had been executed, or with whom an assignment had been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from GRM Development Solutions Limited; a charge may be levied against such approval.

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- a) the consequences of this document being used for any purpose or project other than for which it was commissioned, and
- b) the consequences of this document being used by any third party with whom an agreement has not been executed.

Phase I Environmental Audits/ Desk Studies

The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the site and meetings and discussions with relevant authorities and other interested parties. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, GRM Development Solutions Limited reserves the right to review such information and as considered necessary and appropriate to modify the opinions accordingly. It should be noted that any risks identified in a Phase 1 report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

Phase II Environmental Audits (Contamination Investigations)

The investigation of the site has been carried out to provide sufficient information concerning the type and degree of contamination, ground and groundwater conditions to allow a reasonable risk assessment to be made. The objectives of the investigation have been limited to establishing the risks associated with potential human targets, building materials, and controlled waters.

The amount of exploratory work and chemical testing undertaken has necessarily been restricted by the short timescale available, and the locations of exploratory holes have been restricted to the areas unoccupied by the building(s) on the site and by buried services. A more comprehensive investigation may be required if the site is to be redeveloped as, in addition to risk assessment, a number of important engineering and environmental issues need to be resolved.

For these reasons if costs have been included in relation to site remediation these must be considered as provisional only and must, in any event, be confirmed by a commercial adviser.

The exploratory holes undertaken, which investigate only a small volume of the ground in relation to the size of the site, can only provide a general indication of site conditions. Whilst exploratory testing is intended to gain an accurate representation of the site, the very nature of sampling and testing is such that it cannot ensure that all localised conditions are detected.

The risk assessment and opinions provided take in to consideration, inter alia, currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.

Phase II Geo-environmental Investigations (Combined Geotechnical and Contamination Investigations)

The investigation of the site has been carried out to provide sufficient information concerning the type and degree of contamination, geotechnical characteristics, and ground and groundwater conditions to provide a reasonable assessment of the environment risks together with engineering and development implications. If costs have been included in relation to site development a commercial adviser must confirm these.

The exploratory holes undertaken, which investigate only a small volume of the ground in relation to the size of the site, can only provide a general indication of site conditions. The opinions provided and recommendations given in this report are based on the ground conditions apparent at the site for each of the exploratory holes. There may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.

The comments made on groundwater conditions are based on observations made at the time the site work was conducted. It should be noted that groundwater levels will vary owing to seasonal, tidal and weather related effects. The scope of the investigation was selected on the basis of the specific development proposed by the Client and may be inappropriate to another form of development or scheme.



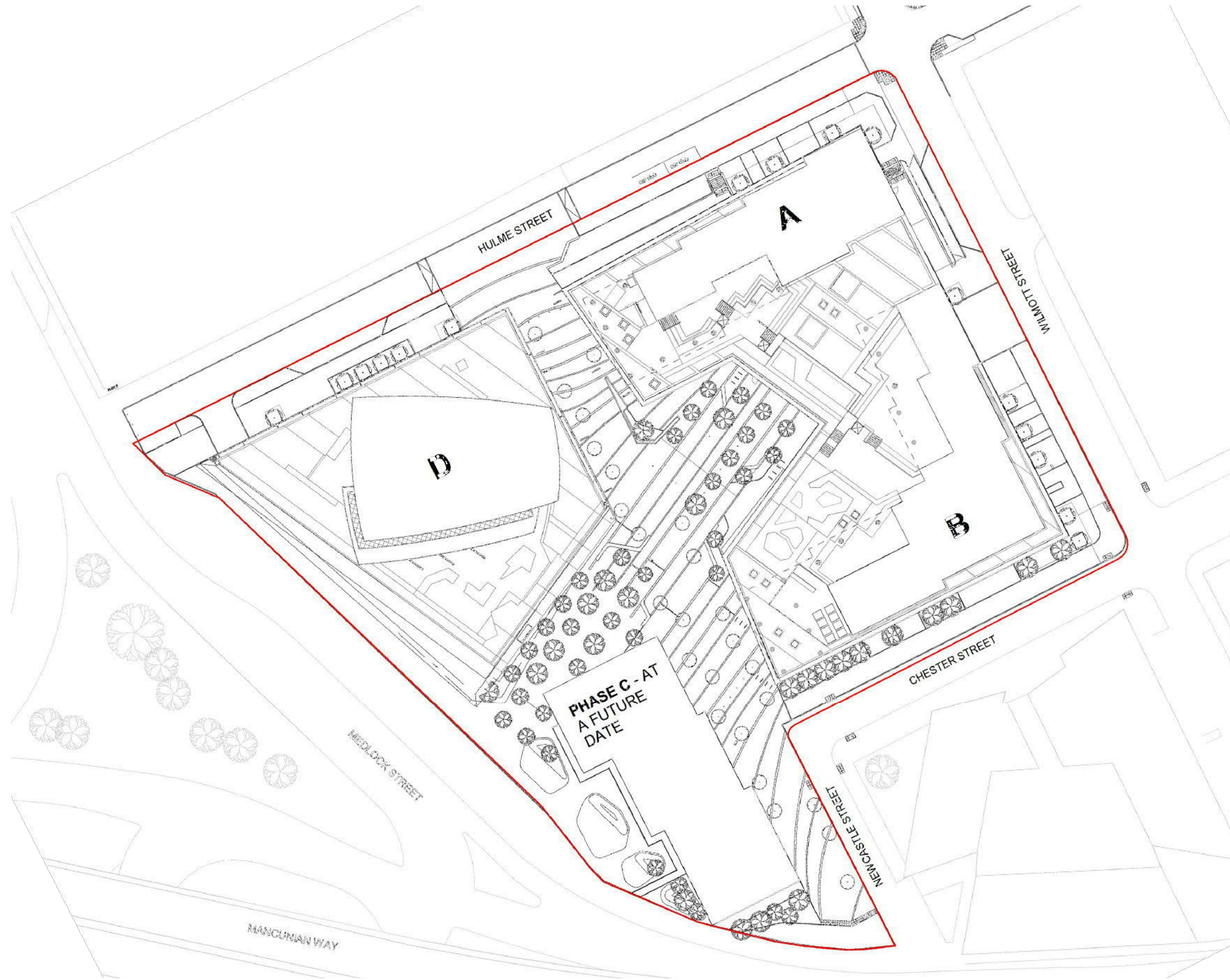
The risk assessment and opinions provided take in to consideration, inter alia, currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.



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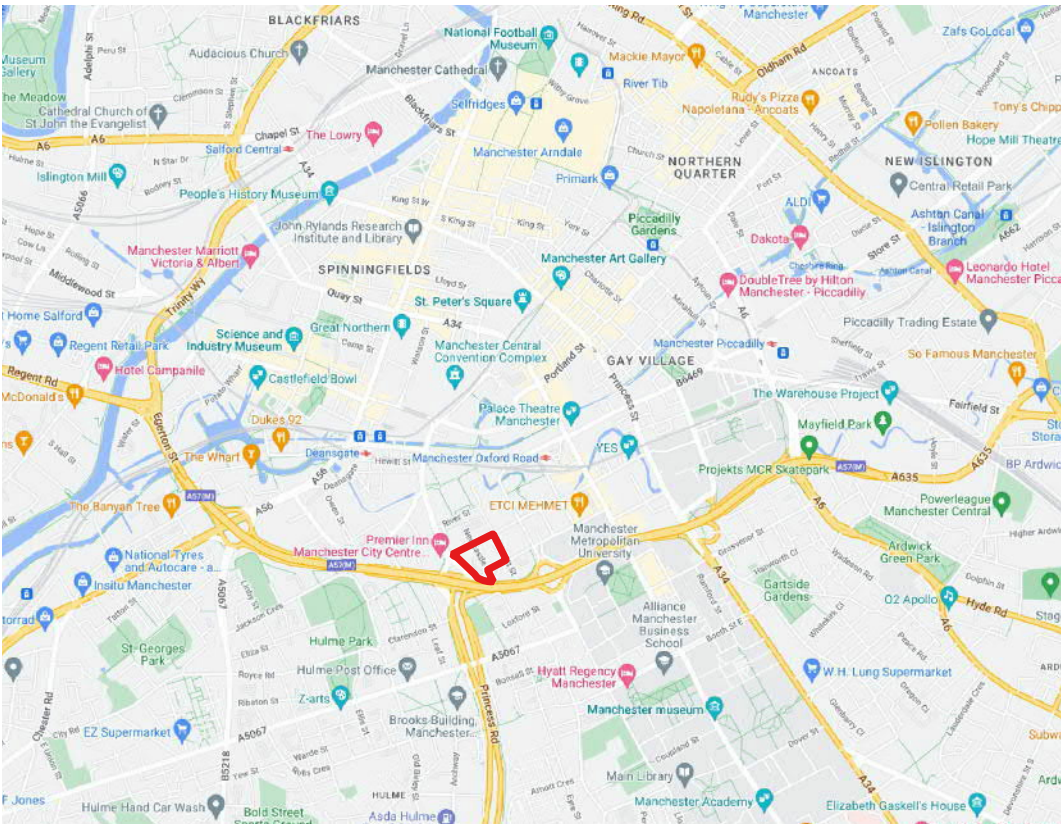
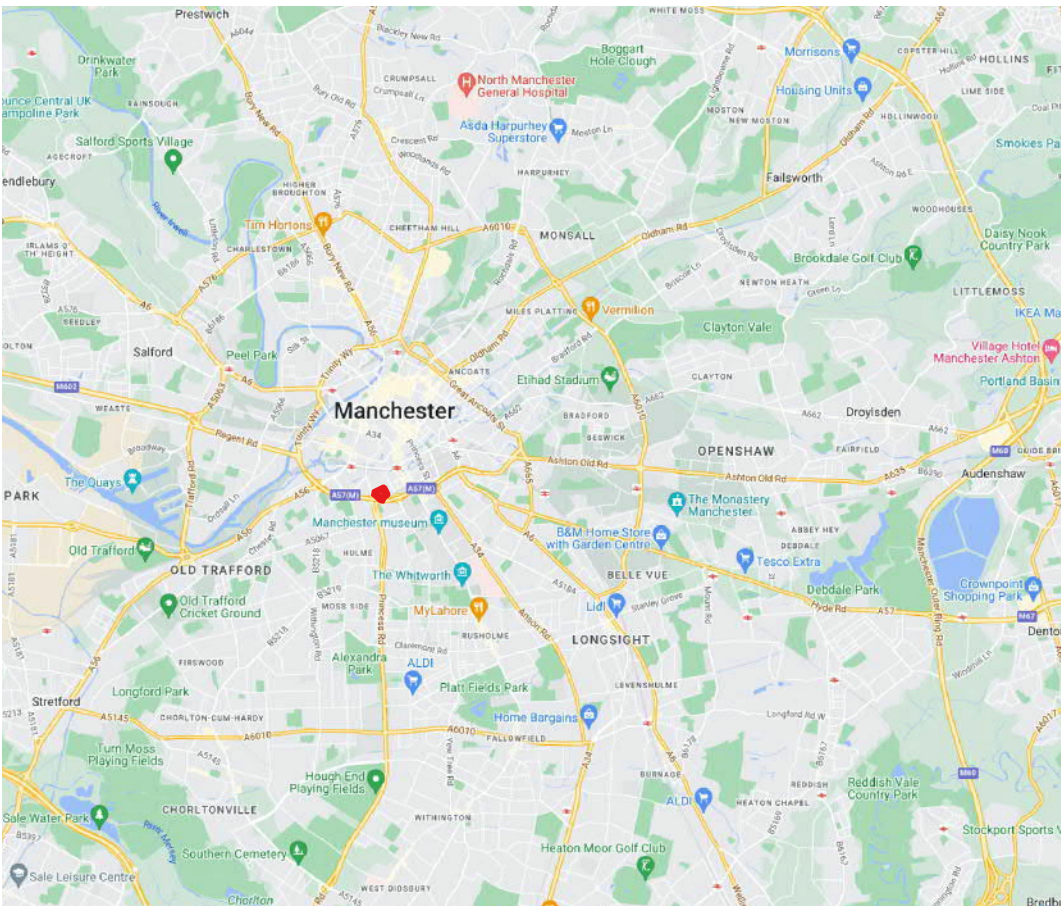
NOTES:	CLIENT:	Alan Johnston Partnership LLP	PROJECT	P10227	DATE	APR 2023	DESIGN/ DRAWING	CM	 GRM Development Solutions Ltd Tel: 01282 551 240 mail@grm-uk.com www.grm-uk.com
	PROJECT:	First Street, Manchester	DRAWING	01	ISSUE:	FINAL			
	TITLE:	Proposed Development Layout	© GRM Development Solutions Ltd © Crown Copyright. AL 100014100						



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NOTES:

CLIENT: Alan Johnston Partnership LLP

PROJECT: First Street, Manchester

TITLE: Site Location and Boundary Plan

PROJECT P10227

DATE APR 2023

DESIGN/ CM

DRAWING 02

ISSUE: FINAL

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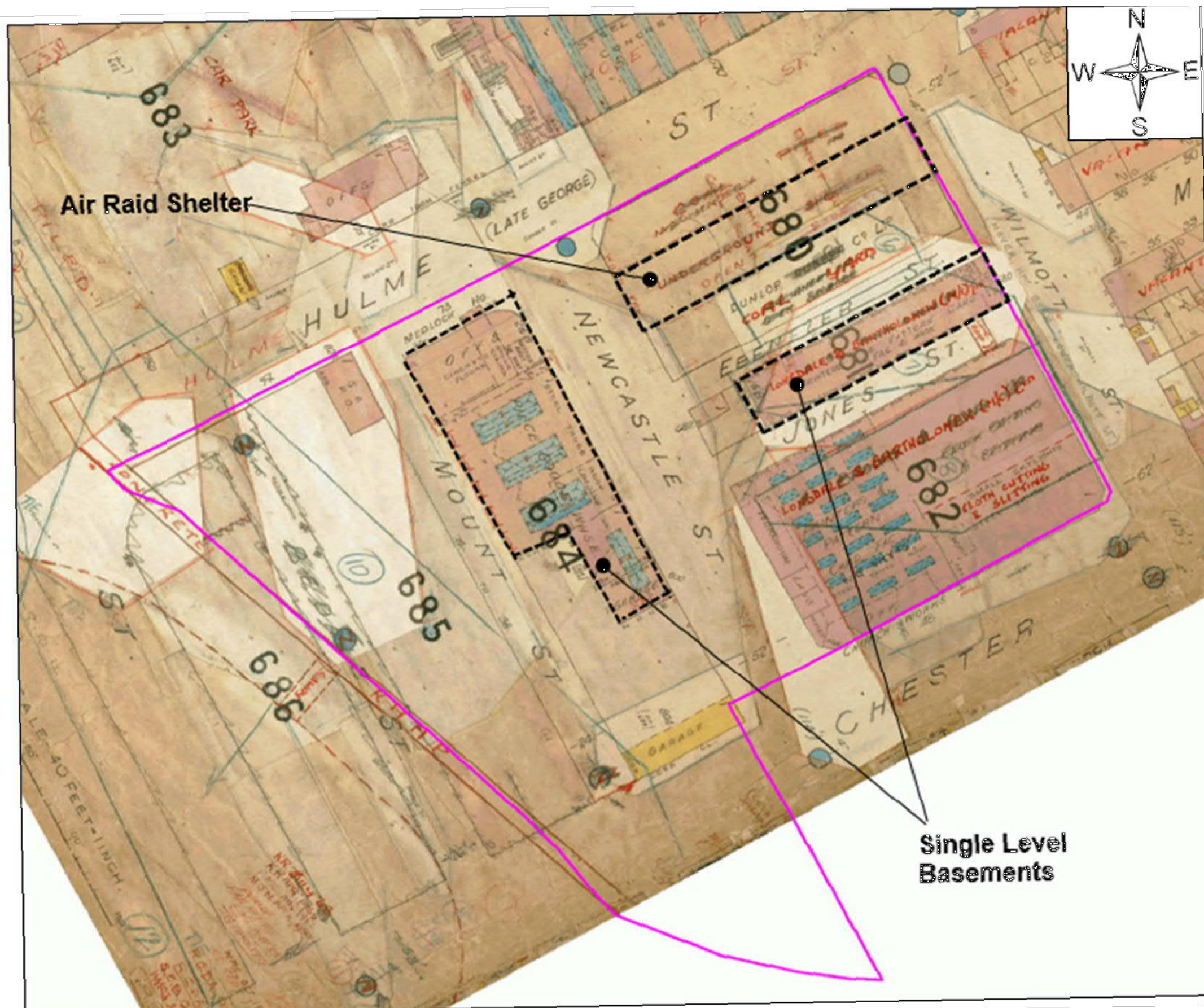
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[illegible]

For Information

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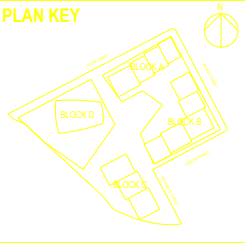
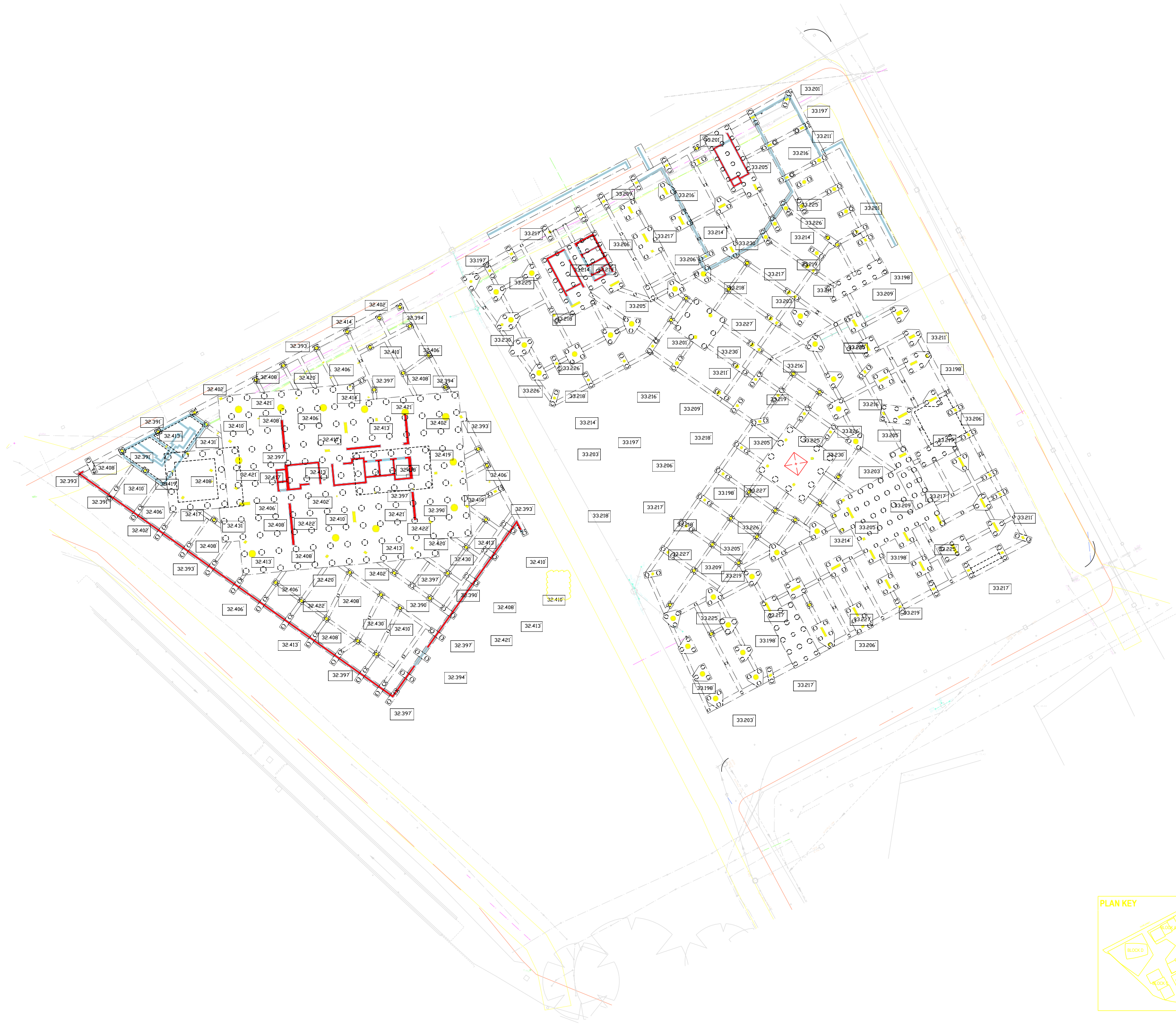
ARCHITECT: **SIMPSON HAUGH & PARTNERS**

PROJECT: FIRST STREET SOUTH
MANCHESTER

TITLE: Level 00 - As-built of Mass Dig Levels
Site Wide

STATUS:	PROJECT No:	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No:	REV:
C1	219-215	FSS	- MPB	- ZZ	- 00	- AB	- S	- 0001	C01
SCALE: @ A:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:				
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REV	DATE	DESCRIPTION						OK	OF
DRAWING STATUS									
For Information									
CLIENT									
DOWNING									
ARCHITECT									
SIMPSON HAUGH & PARTNERS									
PROJECT									
FIRST STREET SOUTH MANCHESTER									
TITLE									
Level 00 - As-built of Formation Level Site Wide									
STATUS	PROJECT No.	PROJECT	ORIGINATOR	COLORS/LEVEL	TYPE	SCALE	Drawing No.	REV	
C1	219-215	FSS - MPB - ZZ - 00 - AB - S - 0000					C01		C01
SCALE @ AS	DESIGNED	DRAWN	CHECKED	APPROVED	CT	DATE			
Do not Scale	PL	CH	CF			March 2023			



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Photograph 1. Site overview – pre site works



Photograph 2. Site Preparation Works



Photograph 3. Site Preparation Works



Photograph 4. Evidence of sub-surface obstructions

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Alan Johnston Partnership LLP

PROJECT:

First Street, Manchester

TITLE:

Photographic Record of Site Works

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APR 2023

PROJECT No:

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DRAWING No:

04

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Photograph 5. Remnants of former air-raid shelter



Photograph 6. Remnants of former air-raid shelter



Photograph 7. Former basement area to the east



Photograph 8. Former basement area to the east

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PROJECT:

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PROJECT No:

P10227

DRAWING No:

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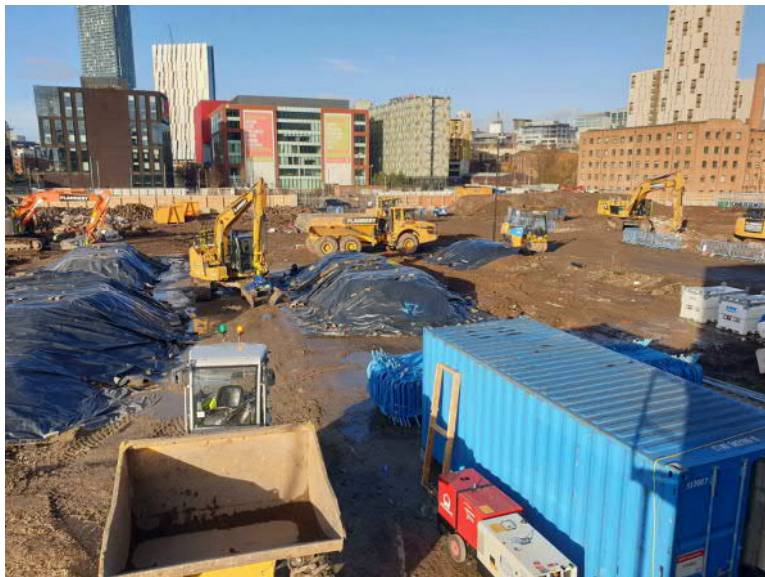
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Photograph 9. Dust-suppression measures to dampen stockpiles



Photograph 10. Stockpile segregation



Photograph 11. Sheeted stockpiles



Photograph 12. Sheeted stockpiles

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TITLE:
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DESIGN/DRAWN:	DATE:
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PROJECT No:	DRAWING No:
P10227	06



Photograph 13. Site works



Photograph 14. Site-preparation, cut levels



Photograph 15. Surface preparation for piling mat



Photograph 12. Sheeted stockpile prior to off-site disposal

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First Street, Manchester

TITLE:
Photographic Record of Site Works

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Photograph 13. Site overview - completed site works

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PROJECT:

First Street, Manchester

TITLE:

**Photographic Record of Site
Works**

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ISSUE:

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TEST REPORT:

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION & MOISTURE CONTENT

BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 2 : 1990, Method 3.2

REPORT NUMBER:

C1056205 / 170394.1.1.1

SAMPLE NUMBER:

264674

CLIENT:

MPB Structures Ltd

CLIENT REF:

DN4186/22

ADDRESS:

14 Crucible Road, Corby, NN17 5TS

DATE SAMPLED:

02/02/2022

SITE:

E979 First Street, Manchester

SAMPLED BY:

Client

SUPPLIER:

Not stated , Not Stated

DATE RECEIVED:

04/02/2022

MATERIAL:

6F2

DATE COMPLETED:

15/03/2022

CLASSIFICATION:

Class 6F2

TESTED BY:

JW, CL, RF, DL

LOCATION:

Not Stated

TYPE OF SAMPLE:

Disturbed

PREPARATION METHOD:

BS 1377:Part 1:1990 clause 7.3 & 7.4.5

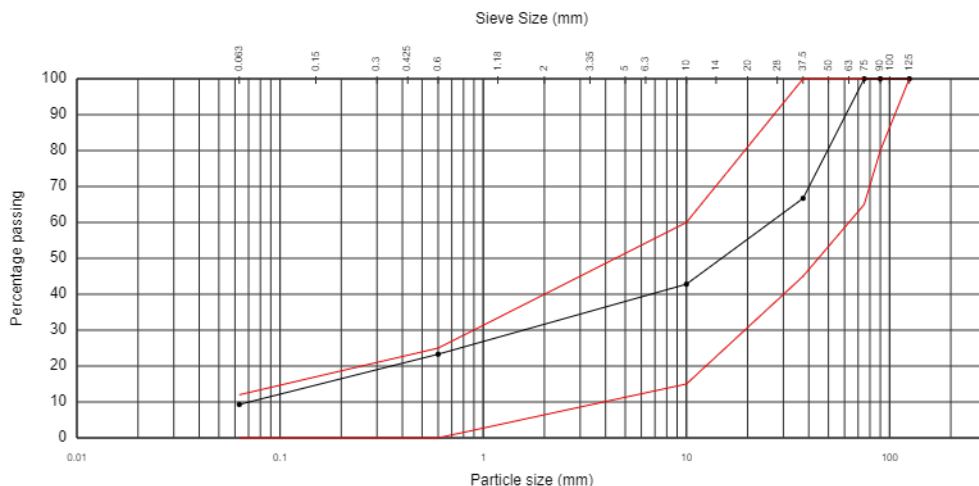
VARIATIONS:

No variations

SAMPLING PLAN:

Client Provided

RESULT Test Location: CTS Doncaster



Class 6F2 - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 6F2

Uniformity Coefficient (D60/D10) 215

The material tested complies with the uniformity coefficient requirements stated.

Sample complies with the grading specification

Moisture content: 14%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
100	100	
90	100	80 - 100
75	100	65 - 100
63	86	
50	71	
37.5	67	45 - 100
28	60	
20	53	
14	48	
10	43	15 - 60
6.3	38	
5	35	
3.35	32	
2	28	
1.18	26	
0.6	23	0 - 25
0.425	22	
0.3	18	
0.15	13	
0.063	9	0 - 12

Remarks:

Remaining sample will be retained for a minimum of 28 days from date of report. Test results reported relate only to the items tested.

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www.constructiontesting.co.uk
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For and on behalf of CTS

Alex Edgar - Senior Laboratory Technician



Approved Signatory
Report date 16-Mar-22

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

TEST REPORT:

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION & MOISTURE CONTENT

BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 2 : 1990, Method 3.2

REPORT NUMBER:

C1056205 / 170394.2.1.1

SAMPLE NUMBER:

264676

CLIENT:

MPB Structures Ltd

CLIENT REF:

DN4186/23

ADDRESS:

14 Crucible Road, Corby, NN17 5TS

DATE SAMPLED:

02/02/2022

SITE:

E979 First Street, Manchester

SAMPLED BY:

Client

SUPPLIER:

Not stated , Not Stated

DATE RECEIVED:

04/02/2022

MATERIAL:

6F2

DATE COMPLETED:

15/03/2022

CLASSIFICATION:

Class 6F2

TESTED BY:

JW, CL, RF, DL

LOCATION:

Not Stated

TYPE OF SAMPLE:

Disturbed

PREPARATION METHOD:

BS 1377:Part 1:1990 clause 7.3 & 7.4.5

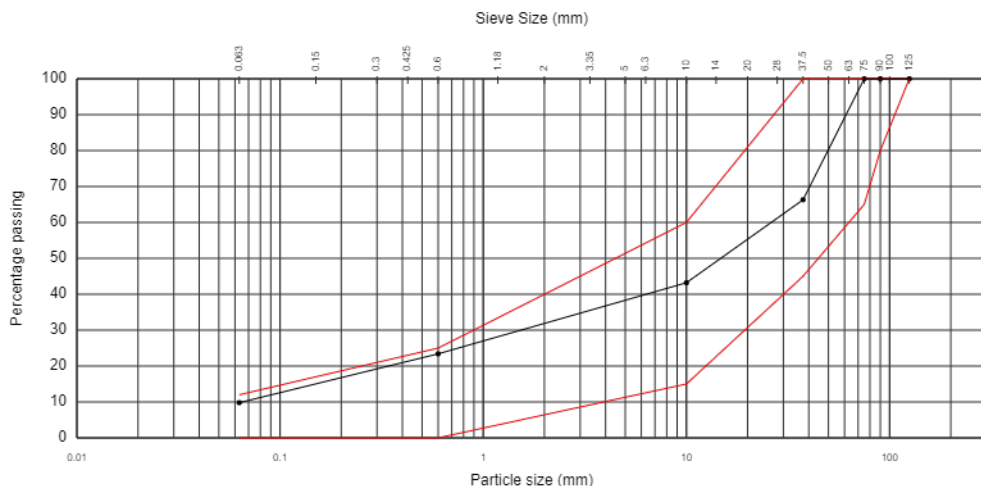
VARIATIONS:

No variations

SAMPLING PLAN:

Client Specification

RESULT Test Location: CTS Doncaster



Class 6F2 - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 6F2

Uniformity Coefficient (D60/D10) 248

The material tested complies with the uniformity coefficient requirements stated.

Sample complies with the grading specification

Moisture content: 13%

SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
100	100	
90	100	80 - 100
75	100	65 - 100
63	88	
50	79	
37.5	66	45 - 100
28	60	
20	54	
14	49	
10	43	15 - 60
6.3	37	
5	35	
3.35	31	
2	28	
1.18	26	
0.6	23	0 - 25
0.425	22	
0.3	19	
0.15	13	
0.063	10	0 - 12

Remarks:

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BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 2 : 1990, Method 3.2

REPORT NUMBER:

C1056205 / 170394.4.1.1

SAMPLE NUMBER:

264683

CLIENT:

MPB Structures Ltd

CLIENT REF:

DN4186/25

ADDRESS:

14 Crucible Road, Corby, NN17 5TS

DATE SAMPLED:

02/02/2022

SITE:

E979 First Street, Manchester

SAMPLED BY:

Client

SUPPLIER:

Not stated , Not Stated

DATE RECEIVED:

04/02/2022

MATERIAL:

6F2

DATE COMPLETED:

15/03/2022

CLASSIFICATION:

Class 6F2

TESTED BY:

JW, CL, RF, DL

LOCATION:

Not Stated

TYPE OF SAMPLE:

Disturbed

PREPARATION METHOD:

BS 1377:Part 1:1990 clause 7.3 & 7.4.5

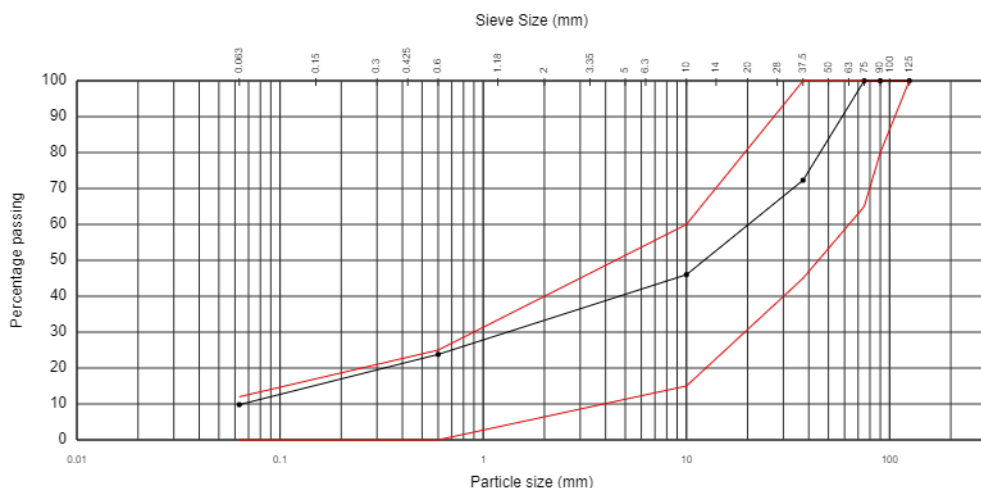
VARIATIONS:

No variations

SAMPLING PLAN:

Client Specification

RESULT Test Location: CTS Doncaster



SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
100	100	
90	100	80 - 100
75	100	65 - 100
63	92	
50	82	
37.5	72	45 - 100
28	64	
20	58	
14	51	
10	46	15 - 60
6.3	40	
5	37	
3.35	33	
2	29	
1.18	27	
0.6	24	0 - 25
0.425	22	
0.3	19	
0.15	13	
0.063	10	0 - 12

Class 6F2 - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 6F2

Uniformity Coefficient (D60/D10) 240

The material tested complies with the uniformity coefficient requirements stated.

Sample complies with the grading specification

Moisture content: 10%

Remarks:

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Alex Edgar - Senior Laboratory Technician



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Report date 16-Mar-22



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TEST REPORT:

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION & MOISTURE CONTENT

BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 2 : 1990, Method 3.2

REPORT NUMBER:

C1056205 / 171589.1.1.1

SAMPLE NUMBER:

266610

CLIENT:

MPB Structures Ltd

CLIENT REF:

DN4186/27

ADDRESS:

14 Crucible Road, Corby, NN17 5TS

DATE SAMPLED:

04/02/2022

SITE:

E979 First Street, Manchester

SAMPLED BY:

Client

SUPPLIER:

Not stated , Not Stated

DATE RECEIVED:

14/02/2022

MATERIAL:

6F2

DATE COMPLETED:

14/03/2022

CLASSIFICATION:

Class 6F2

TESTED BY:

JW, RF, DL, LS

LOCATION:

Not Stated

TYPE OF SAMPLE:

Disturbed

PREPARATION METHOD:

BS 1377:Part 1:1990 clause 7.3 & 7.4.5

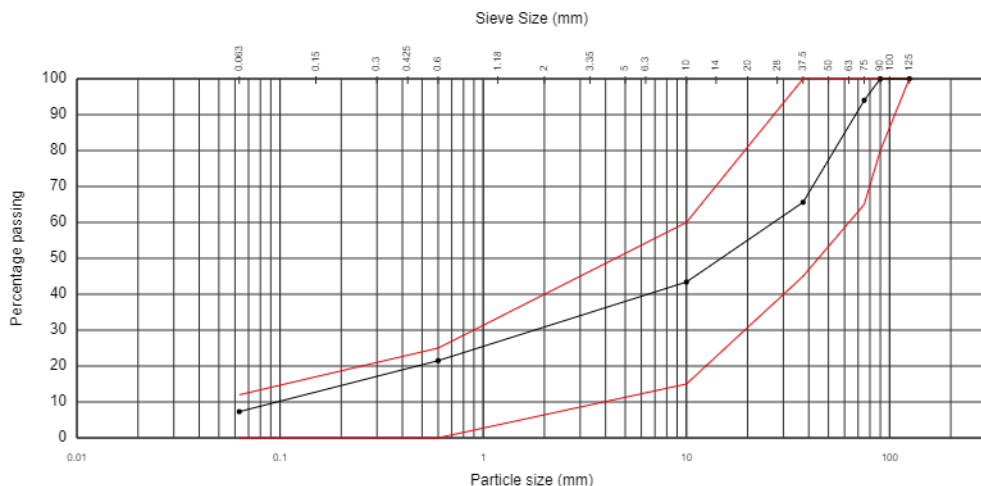
VARIATIONS:

No variations

SAMPLING PLAN:

Client Specification

RESULT Test Location: CTS Doncaster



SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
100	100	
90	100	80 - 100
75	94	65 - 100
63	79	
50	72	
37.5	66	45 - 100
28	59	
20	54	
14	49	
10	43	15 - 60
6.3	37	
5	35	
3.35	31	
2	27	
1.18	25	
0.6	22	0 - 25
0.425	20	
0.3	16	
0.15	11	
0.063	7	0 - 12

Class 6F2 - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 6F2

Uniformity Coefficient (D60/D10) 129

The material tested complies with the uniformity coefficient requirements stated.

Sample complies with the grading specification

Moisture content: 15%

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Alex Edgar - Senior Laboratory Technician



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Report date 16-Mar-22



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TEST REPORT:

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION & MOISTURE CONTENT

BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 2 : 1990, Method 3.2

REPORT NUMBER:

C1057158 / 172751.2.1.1

SAMPLE NUMBER:

268457

CLIENT:

MPB Structures Ltd

CLIENT REF:

DN4186/29

ADDRESS:

14 Crucible Road, Corby, NN17 5TS

DATE SAMPLED:

10/02/2022

SITE:

First Street, Manchester - LAB

SAMPLED BY:

Client

SUPPLIER:

Not stated , Not Stated

DATE RECEIVED:

22/02/2022

MATERIAL:

6F2

DATE COMPLETED:

14/03/2022

CLASSIFICATION:

Class 6F2

TESTED BY:

JW, CL, RF, DL

LOCATION:

Not Stated

TYPE OF SAMPLE:

Disturbed

PREPARATION METHOD:

BS 1377:Part 1:1990 clause 7.3 & 7.4.5

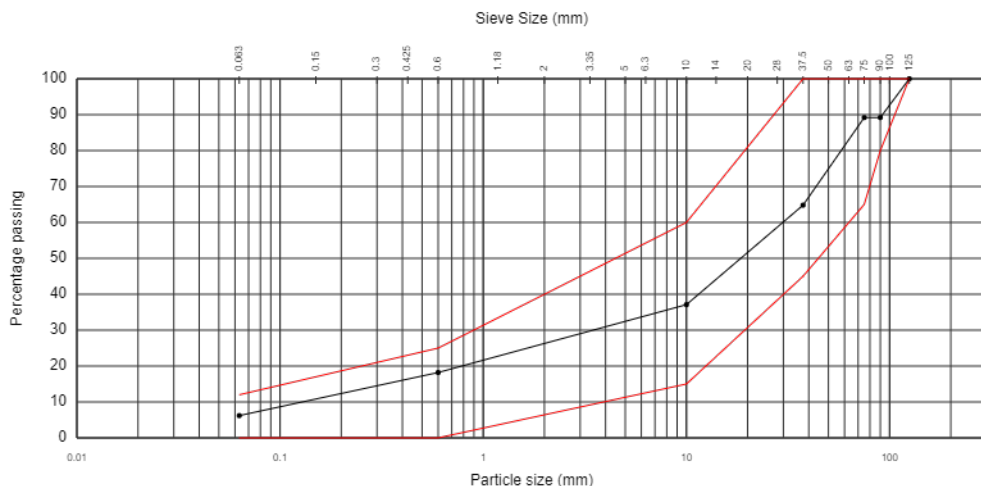
VARIATIONS:

No variations

SAMPLING PLAN:

Client Specification

RESULT Test Location: CTS Doncaster



SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
100	100	
90	89	80 - 100
75	89	65 - 100
63	83	
50	74	
37.5	65	45 - 100
28	56	
20	47	
14	42	
10	37	15 - 60
6.3	31	
5	29	
3.35	26	
2	23	
1.18	21	
0.6	18	0 - 25
0.425	17	
0.3	14	
0.15	9	
0.063	6	0 - 12

Class 6F2 - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 6F2

Uniformity Coefficient (D60/D10) 110

The material tested complies with the uniformity coefficient requirements stated.

Sample complies with the grading specification

Moisture content: 11%

Remarks:

Remaining sample will be retained for a minimum of 28 days from date of report. Test results reported relate only to the items tested.

This report shall not be reproduced except in full without approval of the Laboratory.

For and on behalf of CTS

Alex Edgar - Senior Laboratory Technician



Approved Signatory

Report date 16-Mar-22



4161

Report Format: L/Rep S6a/Rev 10

Bootham Lane Industrial Estate,
Dunscoft,
Doncaster,
South Yorkshire DN7 4JU

0343 227 8545
enquiries@constructiontesting.co.uk
www.constructiontesting.co.uk
END OF REPORT

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1

Page 1 of 1

TEST REPORT:

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION & MOISTURE CONTENT

BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 2 : 1990, Method 3.2

REPORT NUMBER:

C1057158 / 172434.5.1.1

SAMPLE NUMBER:

268070

CLIENT:

MPB Structures Ltd

CLIENT REF:

DN4186/32

ADDRESS:

14 Crucible Road, Corby, NN17 5TS

DATE SAMPLED:

16/02/2022

SITE:

First Street, Manchester - LAB

SAMPLED BY:

GC

SUPPLIER:

Unknown

DATE RECEIVED:

18/02/2022

MATERIAL:

6F2

DATE COMPLETED:

15/03/2022

CLASSIFICATION:

Class 6F2

TESTED BY:

BO, RF, DL

LOCATION:

See Sheet

TYPE OF SAMPLE:

Disturbed

PREPARATION METHOD:

BS 1377:Part 1:1990 clause 7.3 & 7.4.5

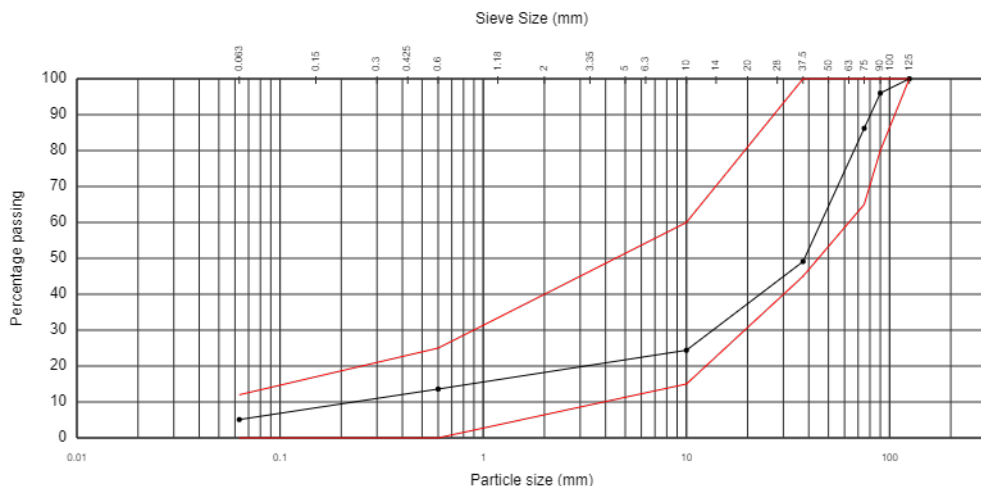
VARIATIONS:

No variations

SAMPLING PLAN:

Client Specification

RESULT Test Location: CTS Doncaster



SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
100	100	
90	96	80 - 100
75	86	65 - 100
63	69	
50	57	
37.5	49	45 - 100
28	40	
20	33	
14	28	
10	24	15 - 60
6.3	22	
5	20	
3.35	18	
2	17	
1.18	15	
0.6	14	0 - 25
0.425	12	
0.3	10	
0.15	7	
0.063	5	0 - 12

Class 6F2 - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 6F2

Uniformity Coefficient (D60/D10) 107

The material tested complies with the uniformity coefficient requirements stated.

Sample complies with the grading specification

Moisture content: 10%

Remarks:

Remaining sample will be retained for a minimum of 28 days from date of report. Test results reported relate only to the items tested.

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Report Format: L/Rep S6a/Rev 10

Bootham Lane Industrial Estate,
Dunscoft,
Doncaster,
South Yorkshire DN7 4JU

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enquiries@constructiontesting.co.uk
www.constructiontesting.co.uk
END OF REPORT

For and on behalf of CTS

Alex Edgar - Senior Laboratory Technician



Approved Signatory
Report date 16-Mar-22

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



4161

TEST REPORT:

TEST REPORT: DETERMINATION OF PARTICLE SIZE DISTRIBUTION & MOISTURE CONTENT

BS 1377 - 2 : 1990, Method 9.2 Washing & Dry Sieving and BS 1377 2 : 1990, Method 3.2

REPORT NUMBER:

C1057158 / 172434.4.1.1

SAMPLE NUMBER:

268074

CLIENT:

MPB Structures Ltd

CLIENT REF:

DN4186/35

ADDRESS:

14 Crucible Road, Corby, NN17 5TS

DATE SAMPLED:

16/02/2022

SITE:

First Street, Manchester - LAB

SAMPLED BY:

GC

SUPPLIER:

Not Stated, Not Stated

DATE RECEIVED:

18/02/2022

MATERIAL:

6F2

DATE COMPLETED:

14/03/2022

CLASSIFICATION:

Class 6F2

TESTED BY:

BO, RF, DL

LOCATION:

See Sheet

TYPE OF SAMPLE:

Disturbed

PREPARATION METHOD:

BS 1377:Part 1:1990 clause 7.3 & 7.4.5

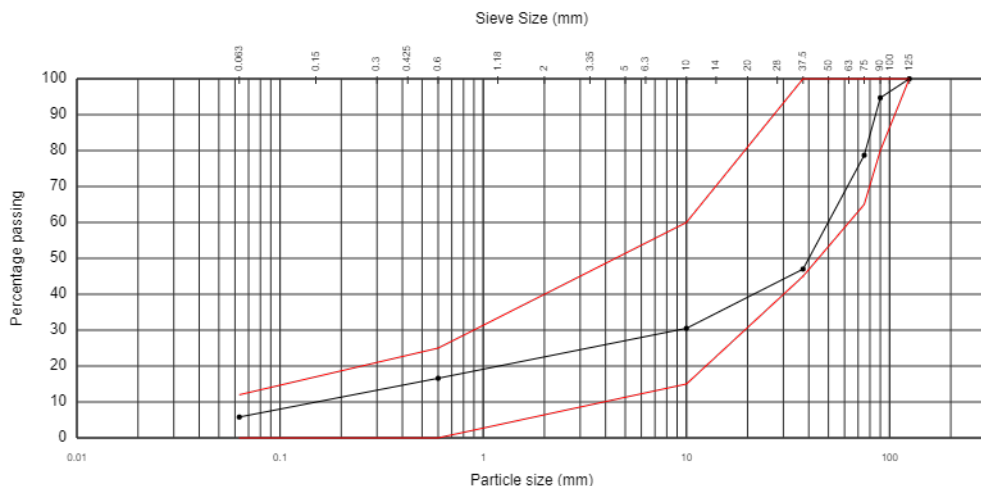
VARIATIONS:

No variations

SAMPLING PLAN:

Client Specification

RESULT Test Location: CTS Doncaster



SIEVE ANALYSIS

Particle Diameter mm	Passing %	Specification Limits
500	100	
300	100	
125	100	100 - 100
100	95	
90	95	80 - 100
75	79	65 - 100
63	61	
50	53	
37.5	47	45 - 100
28	41	
20	36	
14	34	
10	31	15 - 60
6.3	27	
5	25	
3.35	22	
2	21	
1.18	19	
0.6	17	0 - 25
0.425	15	
0.3	12	
0.15	8	
0.063	6	0 - 12

Class 6F2 - Specification for Highway Works (2016) Table 6/2 Earthworks Materials - Class 6F2

Uniformity Coefficient (D60/D10) 113

The material tested complies with the uniformity coefficient requirements stated.

Sample complies with the grading specification

Moisture content: 11%

Remarks:

Remaining sample will be retained for a minimum of 28 days from date of report. Test results reported relate only to the items tested.

This report shall not be reproduced except in full without approval of the Laboratory.

Report Format: L/Rep S6a/Rev 10

Bootham Lane Industrial Estate,
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END OF REPORT

For and on behalf of CTS

Alex Edgar - Senior Laboratory Technician



Approved Signatory

Report date 16-Mar-22

Construction Testing Solutions Ltd.
Registered in England No. 05998333

Report version 1



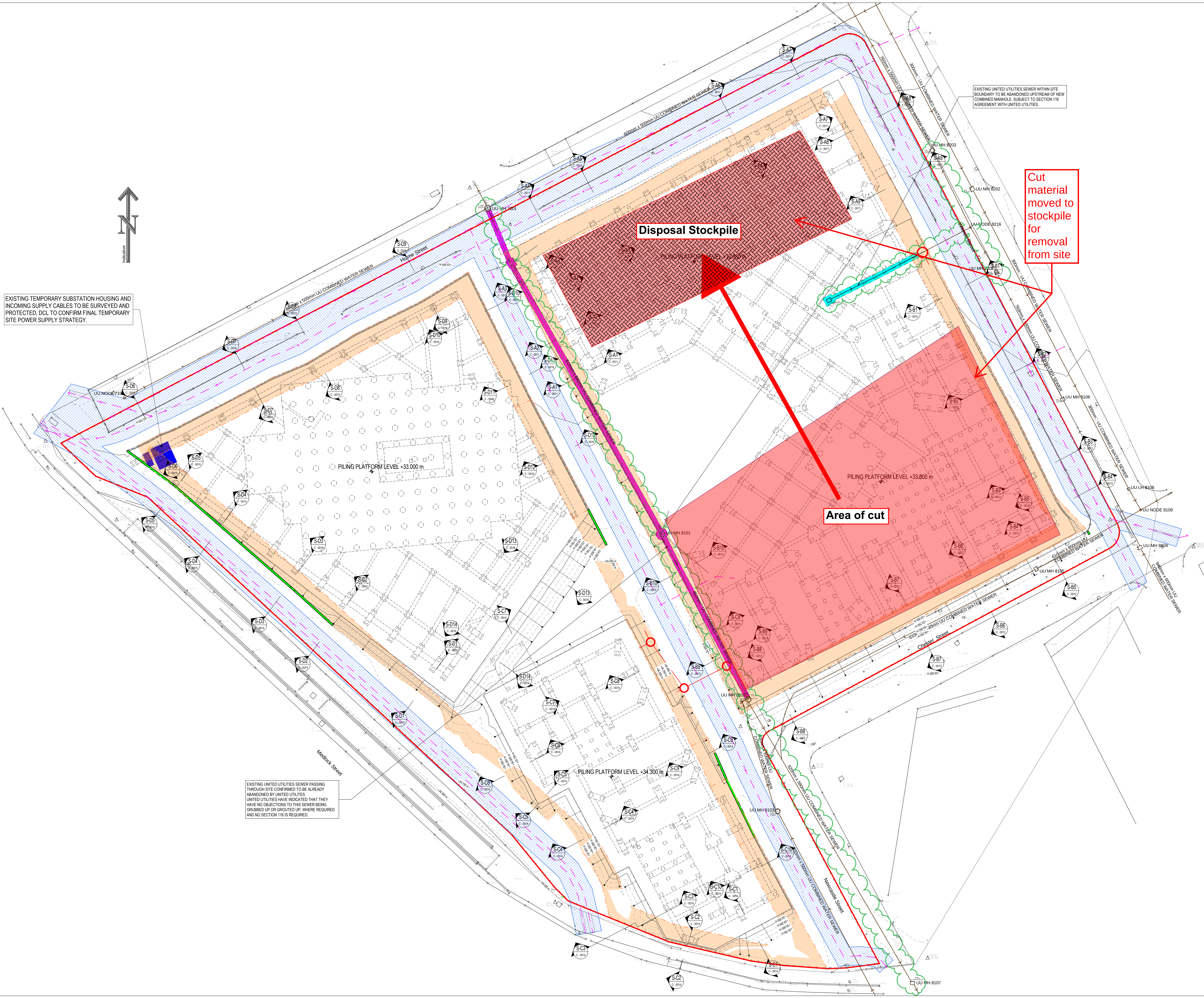
4161



A P P E N D I X H

Land Appraisal | Environmental | Geotechnical | Design | Mining | Inspections

GRM Development Solutions Limited, Laurus House, First Avenue, Centrum 100, Burton upon Trent, Staffs DE14 2WH
www.grm-uk.com | info@grm-uk.com | 01283 551249 Company No. 3099018 (England), VAT Reg. No. 658 1005 48



EXISTING TEMPORARY SUBSTATION HOUSING AND INCOMING SUPPLY CABLES TO BE SURVEYED AND PROTECTED. DCL TO CONFIRM FINAL TEMPORARY SITE POWER SUPPLY STRATEGY.

EXISTING UNITED UTILITIES SEWER PASSING THROUGH SITE CONFIRMED TO BE ALREADY ABANDONED BY UNITED UTILITIES. UNITED UTILITIES HAVE INDICATED THAT THEY HAVE NO OBJECTIONS TO THIS SEWER BEING GRUBBED UP OR GROUTED UP WHERE REQUIRED AND NO SECTION 116 IS REQUIRED.

EXISTING UNITED UTILITIES SEWER WITHIN SITE BOUNDARY TO BE ABANDONED UPSTREAM OF NEW COMBINED MANHOLE. SUBJECT TO SECTION 116 AGREEMENT WITH UNITED UTILITIES.

Cut material moved to stockpile for removal from site

ENABLING WORKS

DCL HAVE CONFIRMED THE ITEMS TO BE CONTAINED WITHIN THE ENABLING PACKAGE. THESE ARE DISCUSSED BELOW.

GENERAL SITE CLEARANCE

THERE ARE NUMEROUS ITEMS OF STREET FURNITURE THAT REQUIRE REMOVAL. THE CONTRACTOR IS TO SATISFY THEMSELVES THAT THE ITEMS ARE FULLY ISOLATED PRIOR TO REMOVAL.

ITEMS TO BE PROTECTED

1- UNTIL NOTIFIED OTHERWISE THE EXISTING TEMPORARY SUBSTATION IS TO BE PROTECTED DURING THE ENABLING WORKS.

2- DUE TO THE SITE BEING SURROUNDED BY LIVE GAS INFRASTRUCTURE A METHOD STATEMENT MUST BE DEVELOPED TO ENSURE ALL SITE OPERATIVES AND VISITOR APPROPRIATE THE RESTRICTIONS IN PLACE. IT HAS BEEN AGREED THAT SLIT TRENCHES WILL BE COMPLETED TO ACCURATELY PLOT THE LIVE SERVICES AND SET OUT THE EASEMENT ZONES. WE UNDERSTAND THAT A WATCH BRIEF WILL BE REQUIRED DURING CERTAIN PROCESS AND THESE NEED TO BE FULLY APPRECIATED AND AGREED BEFORE ANY WORKS START ON SITE.

SITE TURNOVER

TO REMOVE ALL BURIED OBSTRUCTIONS A 3.5m (REG.) SITE TURNOVER IS TO BE COMPLETED. DUE TO SURROUNDING HIGHWAYS, EASEMENTS AND UXO MAN ACCESS REQUIREMENTS A 3m DRAG BOX EXCAVATION TECHNIQUE IS TO BE USED WHERE INDICATED. THE DRAG BOX STRATEGY SHOULD ALLOW SAFE UXO MAN ACCESS TO ALL OTHER AREAS OF THE SITE USING GENERAL EXCAVATION/BATTER TECHNIQUES BUT SEQUENCE AND METHOD STATEMENTS NEED TO BE FINALISED. THE EXCAVATION AND FILLING WORKS TO BE IN ACCORDANCE WITH THE ESP. GEOTECHNICAL SPECIFICATION DATED APRIL 2020. TEMPORARY WORKS SUPPORT ADDED IN AREAS A/P CONSIDER MAY BE REQUIRED. FULL UNDERSTANDING OF EASEMENT RESTRICTIONS REQUIRED TO FINALISE LOCATIONS AND SYSTEM.

UXO CLEARANCE

IN DISCUSSIONS WITH BEN WILKINSON OF GALPHA (02033713907) IT WAS AGREED THAT THE MOST COST EFFECTIVE METHOD OF FULFILLING THE UXO REQUIREMENTS WAS VIA THE WATCHING BRIEF METHOD. THE WATCHING BRIEF PERIOD WILL BE FOR THE DURATION OF THE SITE TURNOVER. TO ACHIEVE THE 5m PENETRATION CLEARANCE REQUIRED THIS WILL REQUIRE THE UXO ENGINEER TO BE PROVIDED WITH SAFE ACCESS AT FORMATION LEVEL (3.5m REG.) TO ALL AREAS ACROSS THE SITE USING HAND HELD EQUIPMENT. THE COSTS FOR THE WATCHING BRIEF ARE TO BE INCLUDED WITHIN THE ENABLING PACKAGE COST.

EXISTING DRAINAGE CCTV SURVEY

THE EXISTING SEWERS INDICATED ARE TO BE CAMERA SURVEYED WITH THEIR LOCATIONS SCHEMATICALLY PLOTTED AND MANHOLE CARDS PRODUCED INCLUDING AOD LEVELS FOR EACH MANHOLE.

DRAINAGE OUTFALLS

THE SECTION OF DRAINAGE TO BE INSTALLED WITHIN THE ENABLING WORKS PACKAGE WILL REQUIRE UU S106 APPLICATIONS. TEMPORARY D400 MANHOLE COVERS TO BE INSTALLED. BRANCH STUBS TO BE SURVEYED AND PROTECTED FOR FOLLOWING WORKS.

JU SEWER ABANDONMENT

1- THE SECTION OF EXISTING JU ADOPTED SEWER BETWEEN BLOCKS A & B IS SUBJECT TO A JU S116 APPLICATION AND TO BE REMOVED FOR THE SECTION INDICATED.

2- THE SECTION OF EXISTING JU ADOPTED SEWER WITHIN NEWCASTLE STREET IS RECORDED AS ABANDONED WITHIN JU RECORDS. THE CCTV SURVEY WILL DETERMINE THE MOST SUITABLE METHOD OF WORKS IF REQUIRED. JU HAVE CONFIRMED THAT S116 APPLICATION IS NOT REQUIRED FOR THIS SECTION OF SEWER.

PILE PLATFORM

FOR INITIAL PRICING PURPOSES A 575mm THICK PLATFORM IS TO BE ALLOWED WITH ONE LAYER OF TENSAR TRAX TX160 AT FORMATION. THE PLATFORM DESIGN CAN ONLY BE CONFIRMED WHEN THE ACTUAL RIG LOADING DATA IS AVAILABLE. THE PLATFORM IS TO EXTEND 2m BEYOND THE OUTSIDE EDGE OF THE OUTRIGGER PLATES IN ALL DIRECTIONS. 240kN PLATE LOAD TESTS USING A 300mm PLATE TESTING IN 50kN INCREMENTS TO 500kN TO BE PROVIDED ACROSS THE SITE.

ENABLING WORKS LEGEND

- LEGAL BOUNDARY/HOARDING LINE
- 3m WIDE x 3.5m DEEP TRENCH BOX EXCAVATION FOR SITE TURNOVER PLOT PERIMETER
- GAS EASEMENT
- SEWER ALREADY ABANDONED
- SEWER ABANDONMENT
- ENABLING WORKS DRAINAGE WITH STUBS AT MANHOLES
- CCTV SURVEY REQUIREMENTS
- GAS PIPE LOCATION ON PLAN & LEVEL TO BE CONFIRMED USING SLIT TRENCH EXCAVATION TO BE CONFIRMED PRIOR TO MAJOR WORKS STARTING ON SITE.
- TEMPORARY RETAINING WALL

PROJ	17.02.2020	GAS EASEMENT WITH REDUCED	OW	0.5	0.5
PROJ	06.06.2020	Final Design (20m) Overlap	OW	0.5	0.5
PROJ	17.02.2020	ISSUED FOR COORDINATION	OW	0.5	0.5
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS: **PRELIMINARY**

CLIENT: **DOWNING**

ARCHITECT: **SIMPSON HAUGH & PARTNERS**

PROJECT: **FIRST STREET SOUTH**

TITLE: **ENABLING WORKS SITE TOPO**

STATUS	PROJECT NO.	PROJECT	CORPORATOR	VOLETS LEVEL	TYPE	TRAIL	DRAWING NO.	REV
S2	219-215	FSS - AJP - Z0 - ZZ - DR - C - 0010	P303					

SCALE 8'x4' 1:200

DESIGNED: P Lanyon

DRAWN: C Webber

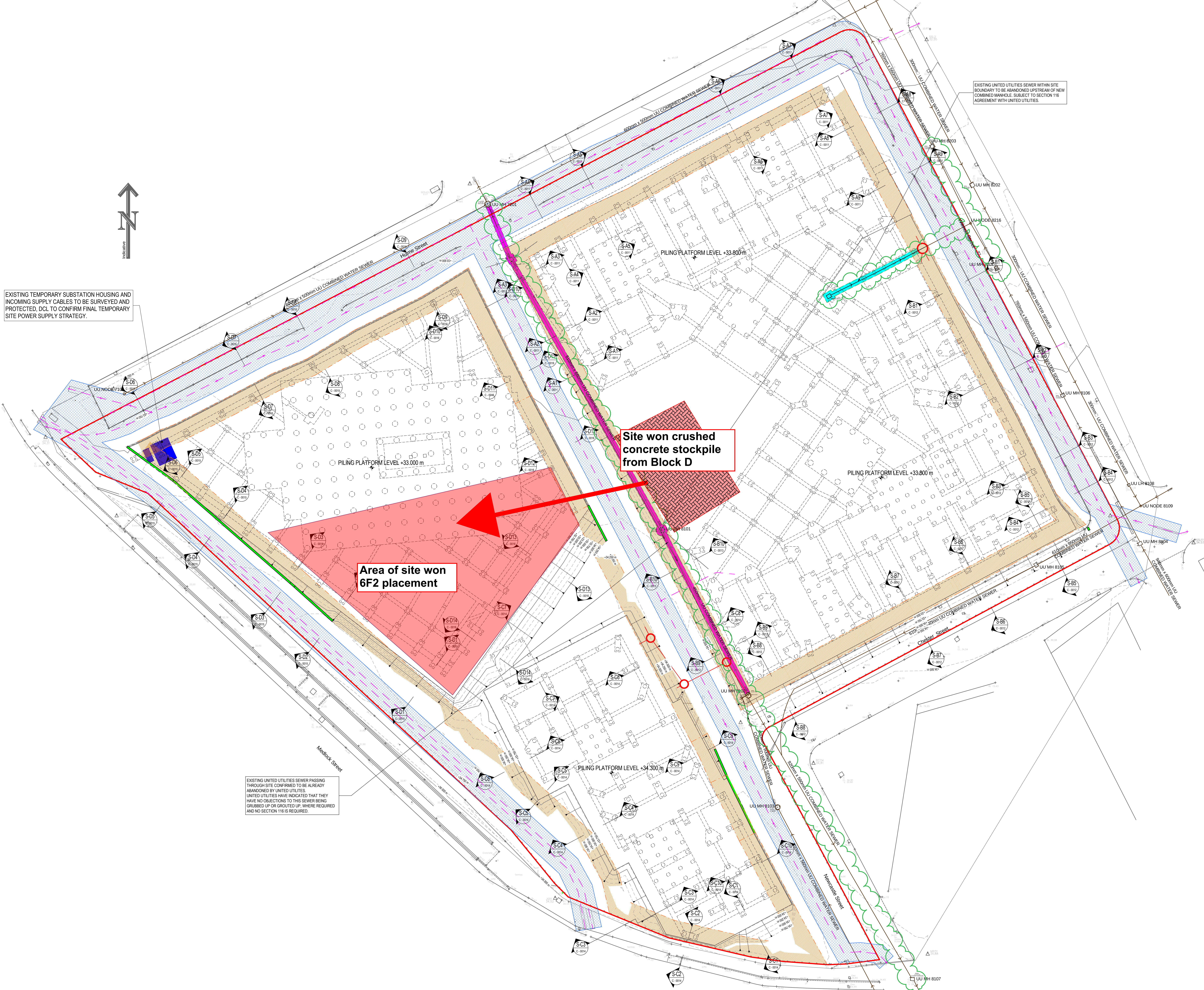
CHECKED: D Sinclair

APPROVED: D Sinclair

DATE: March 2020

alan johnston partnership LLP
CONSULTING STRUCTURAL & CIVIL ENGINEERS

1 Dale Street, Liverpool L2 2ET
Tel: 0151 227 1462
Fax: 0151 225 1187
E-Mail: Mail@ajpartnership.com



EXISTING TEMPORARY SUBSTATION HOUSING AND INCOMING SUPPLY CABLES TO BE SURVEYED AND PROTECTED. DCL TO CONFIRM FINAL TEMPORARY SITE POWER SUPPLY STRATEGY.

EXISTING UNITED UTILITIES SEWER WITHIN SITE BOUNDARY TO BE ABANDONED UPSTREAM OF NEW COMBINED MANHOLE. SUBJECT TO SECTION 116 AGREEMENT WITH UNITED UTILITIES.

EXISTING UNITED UTILITIES SEWER PASSING THROUGH SITE CONFIRMED TO BE ALREADY ABANDONED BY UNITED UTILITIES. UNITED UTILITIES HAVE INDICATED THAT THEY HAVE NO OBJECTIONS TO THIS SEWER BEING GROUND UP OR GROUTED UP WHERE REQUIRED AND NO SECTION 116 IS REQUIRED.

ENABLING WORKS

DCL HAVE CONFIRMED THE ITEMS TO BE CONTAINED WITHIN THE ENABLING PACKAGE, THESE ARE DISCUSSED BELOW.

GENERAL SITE CLEARANCE

THERE ARE NUMEROUS ITEMS OF STREET FURNITURE THAT REQUIRE REMOVAL. THE CONTRACTOR IS TO SATISFY THEMSELVES THAT THE ITEMS ARE FULLY ISOLATED PRIOR TO REMOVAL.

ITEMS TO BE PROTECTED

1- UNTIL NOTIFIED OTHERWISE THE EXISTING TEMPORARY SUBSTATION IS TO BE PROTECTED DURING THE ENABLING WORKS.

2- DUE TO THE SITE BEING SURROUNDED BY LIVE GAS INFRASTRUCTURE A METHOD STATEMENT MUST BE DEVELOPED TO ENSURE ALL SITE OPERATIVES AND VISITOR APPROPRIATE THE RESTRICTIONS IN PLACE. IT HAS BEEN AGREED THAT SLIT TRENCHES WILL BE COMPLETED TO ACCURATELY PLOT THE LIVE SERVICES AND SET OUT THE EASEMENT ZONES. WE UNDERSTAND THAT A WATCH BRIEF WILL BE REQUIRED DURING CERTAIN PROCESS AND THESE NEED TO BE FULLY APPRECIATED AND AGREED BEFORE ANY WORKS START ON SITE.

SITE TURNOVER

TO REMOVE ALL BURIED OBSTRUCTIONS A 3.5m (BSL) SITE TURNOVER IS TO BE COMPLETED DUE TO SURROUNDING HIGHWAYS, EASEMENTS AND UXO MAN ACCESS REQUIREMENTS A 3m DRAG BOX EXCAVATION TECHNIQUE IS TO BE USED WHERE INDICATED. THE DRAG BOX STRATEGY SHOULD ALLOW SAFE UXO MAN ACCESS TO ALL OTHER AREAS OF THE SITE USING GENERAL EXCAVATION/BATTER TECHNIQUES BUT SEQUENCE AND METHOD STATEMENTS NEED TO BE FINALISED. THE EXCAVATION AND FILLING WORKS TO BE IN ACCORDANCE WITH THE ESP. GEOTECHNICAL SPECIFICATION DATED APRIL 2020. TEMPORARY WORKS SUPPORT ADDED IN AREAS AJP CONSIDER MAY BE REQUIRED, FULL UNDERSTANDING OF EASEMENT RESTRICTIONS REQUIRED TO FINALISE LOCATIONS AND SYSTEM.

UXO CLEARANCE

IN DISCUSSIONS WITH BEN WILKINSON OF 6ALPHA (02033713807) IT WAS AGREED THAT THE MOST COST EFFECTIVE METHOD OF FULFILLING THE UXO REQUIREMENTS WAS VIA THE WATCHING BRIEF METHOD. THE WATCHING BRIEF PERIOD WILL BE FOR THE DURATION OF THE SITE TURNOVER. TO ACHIEVE THE 5m PENETRATION CLEARANCE REQUIRED THIS WILL REQUIRE THE UXO ENGINEER TO BE PROVIDED WITH SAFE ACCESS AT FORMATION LEVEL (3.5m BSL) TO ALL AREAS ACROSS THE SITE USING HAND HELD EQUIPMENT. THE COSTS FOR THE WATCHING BRIEF ARE TO BE INCLUDED WITHIN THE ENABLING PACKAGE COST.

EXISTING DRAINAGE CCTV SURVEY

THE EXISTING SEWERS INDICATED ARE TO BE CAMERA SURVEYED WITH THEIR LOCATIONS SONDE PLOTTED AND MANHOLE CARDS PRODUCED INCLUDING ADD LEVELS FOR EACH MANHOLE.

DRAINAGE OUTFALLS

THE SECTION OF DRAINAGE TO BE INSTALLED WITHIN THE ENABLING WORKS PACKAGE WILL REQUIRE UU S108 APPLICATIONS. TEMPORARY D400 MANHOLE COVERS TO BE INSTALLED. BRANCH STUBS TO BE SURVEYED AND PROTECTED FOR FOLLOWING WORKS.

UU SEWER ABANDONMENT

1- THE SECTION OF EXISTING UU ADOPTED SEWER BETWEEN BLOCKS A & B IS SUBJECT TO A UU S116 APPLICATION AND TO BE REMOVED FOR THE SECTION INDICATED.

2- THE SECTION OF EXISTING UU ADOPTED SEWER WITHIN NEWCASTLE STREET IS RECORDED AS ABANDONED WITHIN UU RECORDS. THE CCTV SURVEY WILL DETERMINE THE MOST SUITABLE METHOD OF WORKS IF REQUIRED. UU HAVE CONFIRMED THAT S116 APPLICATION IS NOT REQUIRED FOR THIS SECTION OF SEWER.

PILE PLATFORM

FOR INITIAL PRICING PURPOSES A 575mm THICK PLATFORM IS TO BE ALLOWED WITH ONE LAYER OF TENSAR TRAN TX160 AT FORMATION. THE PLATFORM DESIGN CAN ONLY BE CONFIRMED WHEN THE ACTUAL RIG LOADING DATA IS AVAILABLE. THE PLATFORM IS TO EXTEND 2m BEYOND THE OTSIDE EDGE OF THE OUTRIGGER PLATES IN ALL DIRECTIONS. 240kN PLATE LOAD TESTS USING A 300mm PLATE TESTING IN 500mm INCREMENTS TO 5000kN TO BE PROVIDED ACROSS THE SITE.

ENABLING WORKS LEGEND

- LEGAL BOUNDARY/HOARDING LINE
- 3m WIDE x 3.5m DEEP TRENCH BOX EXCAVATION FOR SITE TURNOVER PLOT PERIMETER
- GAS EASEMENT
- SEWER ALREADY ABANDONED
- SEWER ABANDONMENT
- ENABLING WORKS DRAINAGE WITH STUBS AT MANHOLES
- CCTV SURVEY REQUIREMENTS
- GAS PIPE LOCATION ON PLAN & LEVEL TO BE CONFIRMED USING SLIT TRENCH EXCAVATION TO BE CONFIRMED PRIOR TO MAJOR WORKS STARTING ON SITE.
- TEMPORARY RETAINING WALL

PO3	17.03.2020	GAS EASEMENT WIDTH REDUCED	CH	DLS	DLS
PO2	05.03.2020	Final Design Drawing	CH	DLS	DLS
PO1	17.03.2020	DESIGN FOR CO-ORDINATION	CH	DLS	DLS
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS: **PRELIMINARY**

CLIENT: **DOWNING**

ARCHITECT: **SIMPSON HAUGH & PARTNERS**

PROJECT: **FIRST STREET SOUTH**

TITLE: **ENABLING WORKS SITE TOPO**

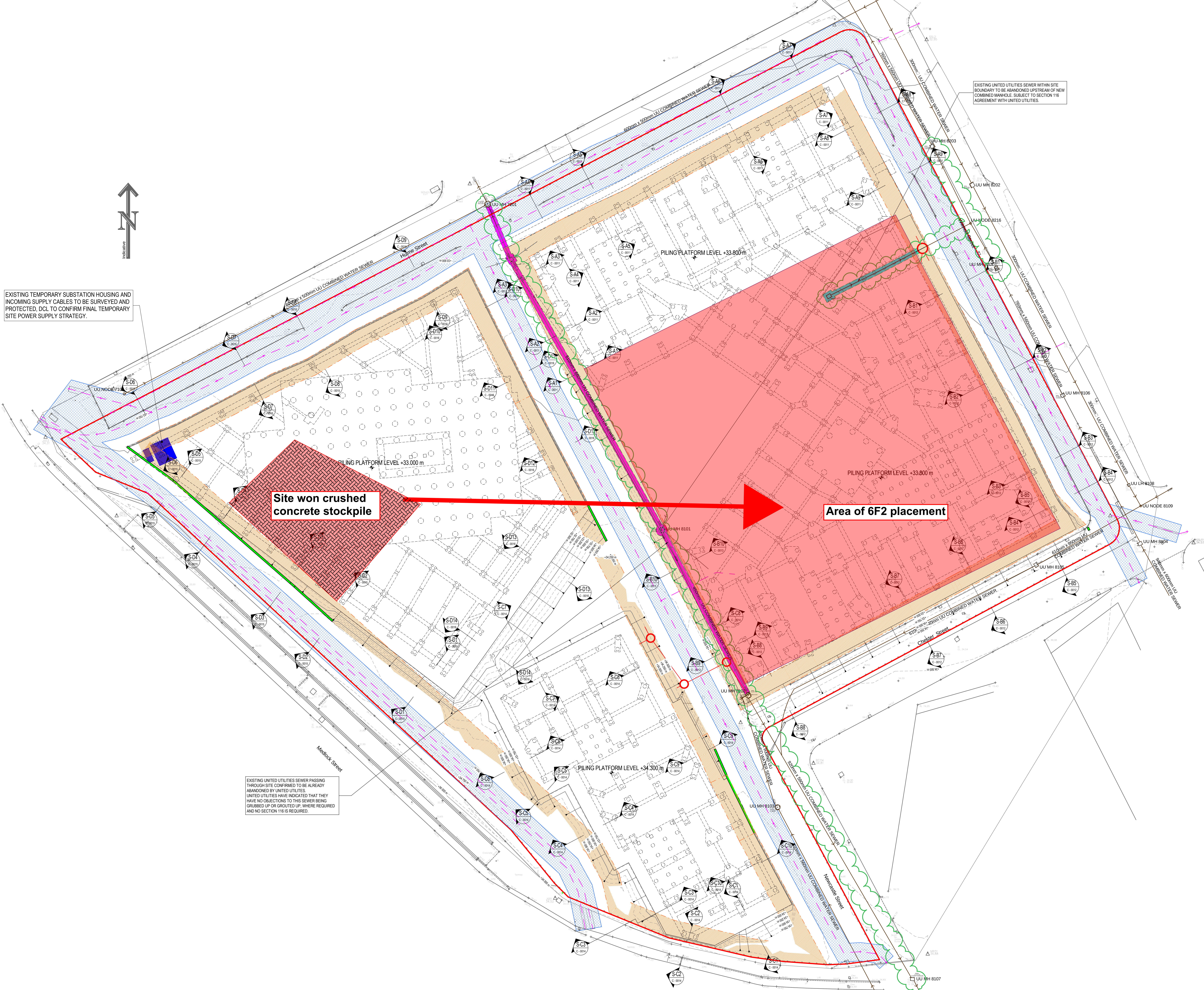
STATUS	PROJECT NO.	PROJECT	ORIGINATOR	DESIGN LEVEL	TYPE	ROLE	DRAWING NO.	REV
S2	219-215	FSS - AJP - Z0 - ZZ - DR	C-Webber	D-Similar	APPROVED	D-Similar	March 2020	PO3

SCALE: 1:200
DESIGNED: P Lanyon
DRAWN: C Webber
CHECKED: D Similar
APPROVED: D Similar
DATE: March 2020

alan johnston partnership LLP
CONSULTING STRUCTURAL & CIVIL ENGINEERS

1 Dale Street, Liverpool L2 2ET
Tel: 0151 227 1462
Fax: 0151 225 1187
E-Mail: Mail@ajpsltd.com

alan johnston



ENABLING WORKS

DCL HAVE CONFIRMED THE ITEMS TO BE CONTAINED WITHIN THE ENABLING PACKAGE, THESE ARE DISCUSSED BELOW.

GENERAL SITE CLEARANCE

THERE ARE NUMEROUS ITEMS OF STREET FURNITURE THAT REQUIRE REMOVAL. THE CONTRACTOR IS TO SATISFY THEMSELVES THAT THE ITEMS ARE FULLY ISOLATED PRIOR TO REMOVAL.

ITEMS TO BE PROTECTED

1- UNTIL NOTIFIED OTHERWISE THE EXISTING TEMPORARY SUBSTATION IS TO BE PROTECTED DURING THE ENABLING WORKS.

2- DUE TO THE SITE BEING SURROUNDED BY LIVE GAS INFRASTRUCTURE A METHOD STATEMENT MUST BE DEVELOPED TO ENSURE ALL SITE OPERATIVES AND VISITOR APPROPRIATE THE RESTRICTIONS IN PLACE. IT HAS BEEN AGREED THAT SLIT TRENCHES WILL BE COMPLETED TO ACCURATELY PLOT THE LIVE SERVICES AND SET OUT THE EASEMENT ZONES. WE UNDERSTAND THAT A WATCH BRIEF WILL BE REQUIRED DURING CERTAIN PROCESS AND THESE NEED TO BE FULLY APPRECIATED AND AGREED BEFORE ANY WORKS START ON SITE.

SITE TURNOVER

TO REMOVE ALL BURIED OBSTRUCTIONS A 3.5m (BEGL) SITE TURNOVER IS TO BE COMPLETED DUE TO SURROUNDING HIGHWAYS, EASEMENTS AND UXO MAN ACCESS REQUIREMENTS A 3m DRAG BOX EXCAVATION TECHNIQUE IS TO BE USED WHERE INDICATED. THE DRAG BOX STRATEGY SHOULD ALLOW SAFE UXO MAN ACCESS TO ALL OTHER AREAS OF THE SITE USING GENERAL EXCAVATION/BATTER TECHNIQUES BUT SEQUENCE AND METHOD STATEMENTS NEED TO BE FINALISED. THE EXCAVATION AND FILLING WORKS TO BE IN ACCORDANCE WITH THE ESP. GEOTECHNICAL SPECIFICATION DATED APRIL 2020. TEMPORARY WORKS SUPPORT ADDED IN AREAS AJP CONSIDER MAY BE REQUIRED. FULL UNDERSTANDING OF EASEMENT RESTRICTIONS REQUIRED TO FINALISE LOCATIONS AND SYSTEM.

UXO CLEARANCE

IN DISCUSSIONS WITH BEN WILKINSON OF 6ALPHA (02033713807) IT WAS AGREED THAT THE MOST COST EFFECTIVE METHOD OF FULFILLING THE UXO REQUIREMENTS WAS VIA THE WATCHING BRIEF METHOD. THE WATCHING BRIEF PERIOD WILL BE FOR THE DURATION OF THE SITE TURNOVER. TO ACHIEVE THE 5m PENETRATION CLEARANCE REQUIRED THIS WILL REQUIRE THE UXO ENGINEER TO BE PROVIDED WITH SAFE ACCESS AT FORMATION LEVEL (3.5m BEGL) TO ALL AREAS ACROSS THE SITE USING HAND HELD EQUIPMENT. THE COSTS FOR THE WATCHING BRIEF ARE TO BE INCLUDED WITHIN THE ENABLING PACKAGE COST.

EXISTING DRAINAGE CCTV SURVEY

THE EXISTING SEWERS INDICATED ARE TO BE CAMERA SURVEYED WITH THEIR LOCATIONS SONDE PLOTTED AND MANHOLE CARDS PRODUCED INCLUDING ADD LEVELS FOR EACH MANHOLE.

DRAINAGE OUTFALLS

THE SECTION OF DRAINAGE TO BE INSTALLED WITHIN THE ENABLING WORKS PACKAGE WILL REQUIRE UU S108 APPLICATIONS. TEMPORARY D400 MANHOLE COVERS TO BE INSTALLED. BRANCH STUBS TO BE SURVEYED AND PROTECTED FOR FOLLOWING WORKS.

UU SEWER ABANDONMENT

1- THE SECTION OF EXISTING UU ADOPTED SEWER BETWEEN BLOCKS A & B IS SUBJECT TO A UU S116 APPLICATION AND TO BE REMOVED FOR THE SECTION INDICATED.

2- THE SECTION OF EXISTING UU ADOPTED SEWER WITHIN NEWCASTLE STREET IS RECORDED AS ABANDONED WITHIN UU RECORDS. THE CCTV SURVEY WILL DETERMINE THE MOST SUITABLE METHOD OF WORKS IF REQUIRED. UU HAVE CONFIRMED THAT S116 APPLICATION IS NOT REQUIRED FOR THIS SECTION OF SEWER.

PILE PLATFORM

FOR INITIAL PRICING PURPOSES A 575mm THICK PLATFORM IS TO BE ALLOWED WITH ONE LAYER OF TENSAR TRAN TY160 AT FORMATION. THE PLATFORM DESIGN CAN ONLY BE CONFIRMED WHEN THE ACTUAL RIG LOADING DATA IS AVAILABLE. THE PLATFORM IS TO EXTEND 2m BEYOND THE OTSIDE EDGE OF THE OUTRIGGER PLATES IN ALL DIRECTIONS. 240kN PLATE LOAD TESTS USING A 300mm PLATE TESTING IN 500 INCREMENTS TO 500kN TO BE PROVIDED ACROSS THE SITE.

ENABLING WORKS LEGEND

- LEGAL BOUNDARY/HOARDING LINE
- 3m WIDE x 3.5m DEEP TRENCH BOX EXCAVATION FOR SITE TURNOVER PLOT PERIMETER
- GAS EASEMENT
- SEWER ALREADY ABANDONED
- SEWER ABANDONMENT
- ENABLING WORKS DRAINAGE WITH STUBS AT MANHOLES
- CCTV SURVEY REQUIREMENTS
- GAS PIPE LOCATION ON PLAN & LEVEL TO BE CONFIRMED USING SLIT TRENCH EXCAVATION TO BE CONFIRMED PRIOR TO MAJOR WORKS STARTING ON SITE.
- TEMPORARY RETAINING WALL

P03	17.03.2025	GAS EASEMENT WIDTH REDUCED		CH	DLS	DLS
P02	09.03.2020	RIBA Stage 3 (Design Development)		CH	DLS	DLS
P01	17.03.2020	ISSUED FOR CO-ORDINATION		CH	DLS	DLS
REV	DATE	DESCRIPTION		BY	CHK	APP

DRAWING STATUS:	P R E L I M I N A R Y										
CLIENT:	DOWNING										
ARCHITECT:	SIMPSON HAUGH & PARTNERS										
PROJECT:	FIRST STREET SOUTH										
TITLE:	ENABLING WORKS SITE TOPO										
STATUS:	S2	PROJECT NO:	219-215	PROJECT:	FSS - AJP - Z0 - ZZ - DR - C - 0010	REV:	P03				
SCALE:	1:200	DESIGNED:	P Lanyon	DRAWN:	C Webber	CHECKED:	D Simclar	APPROVED:	D Simclar	DATE:	March 2020

alan johnston partnership LLP

CONSULTING STRUCTURAL & CIVIL ENGINEERS

1 Dale Street,
Liverpool L2 2ET

Tel: 0151 227 1462
Fax: 0151 225 1187

E-Mail: Mail@ajpsructing.com

alan johnston partnership LLP

CONSULTING STRUCTURAL & CIVIL ENGINEERS





A P P E N D I X I

Land Appraisal | Environmental | Geotechnical | Design | Mining | Inspections

GRM Development Solutions Limited, Laurus House, First Avenue, Centrum 100, Burton upon Trent, Staffs DE14 2WH
www.grm-uk.com | info@grm-uk.com | 01283 551249 Company No. 3099018 (England), VAT Reg. No. 658 1005 48

Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70568	Page	1	of	3
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		08:00	
Contact:	Chris Turner			Finish Time:		15:00	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Reassurance & Far Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the induction and the air monitoring requirements for the oncoming shifts.

Far Source air monitoring has started at 10:26.

Air monitoring has finished at 14:47

Far Source air monitoring is satisfactory and yields a result at <0.01f/ml.

Acorn inform MPB of the results

Acorn leave site.

Analyst Name:	Greg Allen	Signed:		Date:	24/01/2022
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Daily Analytical Paperwork Air Monitoring Certificate



Project No.:	B-35527	Certificate No.:	70568	Page Number	2	of	3
Client Details		Site Details		Microscope No	247049		
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Stage Micrometer	SM27		
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH			NPL Test Slide Number	3712		
				Visible Bands	5		
				Flow Meter	HF56 & LF63		
Contact:	Chris Turner			Measured Graticule Diameter (um) - d	100		
Tel No.:	0161 631 2740	Contractor		Tally Counters	04&05	Stopwatch	45
Email:	cturner@mpb.co.uk	MPB		Diameter of exposed filter (mm) - D	22.4	Batch No	4312

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions					
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring

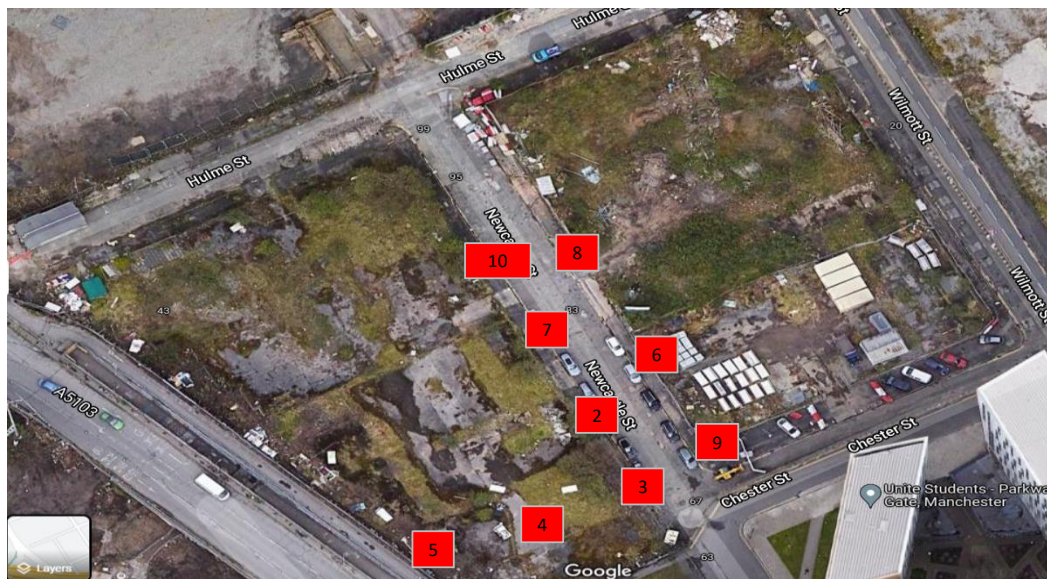
Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=TF)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/cm³	Recorded Result f/cm³	
1	N/A	99	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	100	Satisfactory			GA
2	113	70	FS	Perimeter of Excavation Works	10:26	12:27	121	4.0	4.0	4.0	484	2	198	0.010	0.001	<0.01	GA
3	274	105	FS	Perimeter of Excavation Works	10:27	12:28	121	4.0	4.0	4.0	484	3	198	0.010	0.002	<0.01	GA
4	256	235	FS	Perimeter of Excavation Works	10:28	12:29	121	4.0	4.0	4.0	484	2.5	198	0.010	0.001	<0.01	GA
5	120	274	FS	Perimeter of Excavation Works	10:29	12:30	121	4.0	4.0	4.0	484	2	198	0.010	0.001	<0.01	GA
6	113	70	FS	Perimeter of Excavation Works	12:41	14:41	120	4.0	4.0	4.0	480	2.5	200	0.010	0.001	<0.01	GA
7	120	105	FS	Perimeter of Excavation Works	12:42	14:42	120	4.0	4.0	4.0	480	2	200	0.010	0.001	<0.01	GA
8	274	235	FS	Perimeter of Excavation Works	12:43	14:43	120	4.0	4.0	4.0	480	1.5	200	0.010	0.001	<0.01	GA
9	256	274	FS	Perimeter of Excavation Works	12:44	14:44	120	4.0	4.0	4.0	480	2	200	0.010	0.001	<0.01	GA
10	79	79	FS	Perimeter of Excavation Works	12:47	14:47	120	4.0	4.0	4.0	480	1.5	200	0.010	0.001	<0.01	GA
11				END													
12																	
Analyst Name:				Greg Allen	Signed:								Date:	24/01/2022			

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70568	Page	3	of	3
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR		Airlock/Baglock Chamber	---	Enclosure Material
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH				Negative Pressure Unit	2	Pump Location and Sample No.
Contact:	Chris Turner						
Tel No.:	0161 631 2740	Contractor:					
Email:	cturner@mpb.co.uk	MPB					

Diagram



Analyst Name:	Greg Allen	Signed:		Date:	24/01/2022
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Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70569	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		08:00	
Contact:	Chris Turner			Finish Time:		15:00	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Reassurance, Near Source & Far Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the induction and goes through the air monitoring requirements for the on coming shifts.

Weather: Overcast, Low wind.

Near Source monitoring has started at 09:30 near on going works.

Near Source air monitoring has finished at 14:03.

Near Source air monitoring is satisfactory and yields a result at <0.01f/ml.

Acorn inform MPB of the results.

Acorn leave site.

Analyst Name:	Greg Allen	Signed:		Date:	25/01/2022
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Daily Analytical Paperwork

Air Monitoring Certificate



Project No.:	B-35527	Certificate No.:	70569	Page Number	2	of	4
Client Details		Site Details		Microscope No	600386		
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Stage Micrometer	SM27		
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH			NPL Test Slide Number	3712		
Contact:	Chris Turner			Visible Bands	5		
Tel No.:	0161 631 2740			Flow Meter	HF56 & LF63		
Email:	cturner@mpb.co.uk	Contractor		Measured Graticule Diameter (um) - d	100		
		MPB		Tally Counters	04&05	Stopwatch	45
				Diameter of exposed filter (mm) - D	22.4	Batch No	4312

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions					
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring

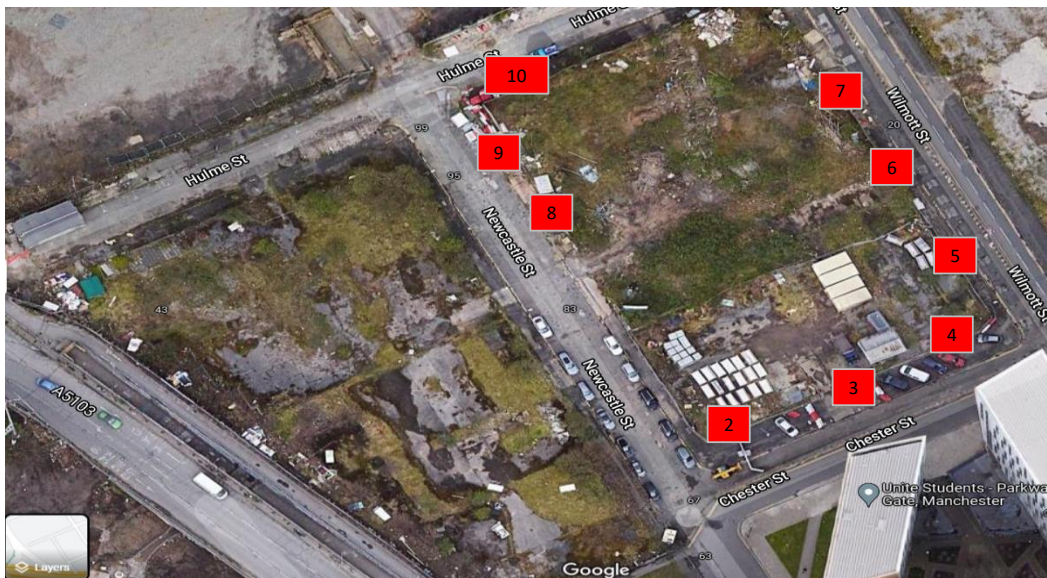
Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=TF)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/cm³	Recorded Result f/cm³	
1	N/A	105	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	100	Satisfactory			GA
2	113	79	NS	External During Excavation works	09:30	10:41	71	8.0	7.8	7.9	561	1	171	0.009	0.001	<0.01	GA
3	256	235	NS	External During Excavation works	09:31	10:42	71	8.0	7.9	8.0	564	1	170	0.009	0.001	<0.01	GA
4	268	274	NS	External During Excavation works	09:33	10:43	70	8.0	8.0	8.0	560	1.5	171	0.009	0.001	<0.01	GA
5	113	70	NS	External During Excavation works	11:32	12:35	63	8.0	7.8	7.9	498	2	193	0.010	0.001	<0.01	GA
6	256	79	NS	External During Excavation works	11:33	12:36	63	8.0	7.8	7.9	498	1	193	0.010	0.001	<0.01	GA
7	268	105	NS	External During Excavation works	11:34	12:37	63	8.0	7.9	8.0	501	1	192	0.010	0.001	<0.01	GA
8	113	70	NS	External During Excavation works	13:01	14:01	60	8.0	7.8	7.9	474	2	203	0.010	0.001	<0.01	GA
9	256	105	NS	External During Excavation works	13:02	14:02	60	8.0	8.0	8.0	480	1.5	200	0.010	0.001	<0.01	GA
10	99	79	NS	External During Excavation works	13:03	14:03	60	8.0	7.9	8.0	477	2	201	0.010	0.001	<0.01	GA
11				END													
12																	
Analyst Name:				Greg Allen	Signed:								Date:	25/01/2022			

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70569	Page	3	of	4	
Client Details		Site Details		Key to Diagram				
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber	Enclosure Material	Negative Pressure Unit		2 Pump Location and Sample No.
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH							
Contact:	Chris Turner							
Tel No.:	0161 631 2740	Contractor:						
Email:	cturner@mpb.co.uk	MPB						

Diagram



Analyst Name:	Greg Allen	Signed:		Date:	25/01/2022
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Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70569	Page	4	of	4		
Client Details		Site Details		Key to Diagram					
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR		Airlock/Baglock Chamber			Enclosure Material	
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH				Negative Pressure Unit		2	Pump Location and Sample No.	
Contact:	Chris Turner								
Tel No.:	0161 631 2740	Contractor:							
Email:	cturner@mpb.co.uk	MPB							

Diagram



Analyst Name:	Greg Allen	Signed:		Date:	25/01/2022
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Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70570	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		08:00	
Contact:	Chris Turner			Finish Time:		15:15	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Reassurance, Near Source & Far Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the induction and goes through the air monitoring requirements for the on coming shifts.

Weather: Overcast, Medium wind.

Near Source Air monitoring is undertaken at 09:11 during excavation works.

All air monitoring has finished at 14:22

Air monitoring is satisfactory and has yielded a result at <0.01f/ml.

Acorn inform MPB of the results

Acorn leave site.

Analyst Name:	Greg Allen	Signed:		Date:	26/01/2022
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Daily Analytical Paperwork Air Monitoring Certificate



Project No.:	B-35527	Certificate No.:	70570	Page Number	2	of	4
Client Details		Site Details		Microscope No			
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Stage Micrometer			
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH			NPL Test Slide Number			
				Visible Bands			
Contact:	Chris Turner			Flow Meter			
Tel No.:	0161 631 2740	Contractor		Tally Counters		04&05	Stopwatch
Email:	cturner@mpb.co.uk	MPB		Diameter of exposed filter (mm) - D		22.4	Batch No
				45			
				4312			

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions					
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring

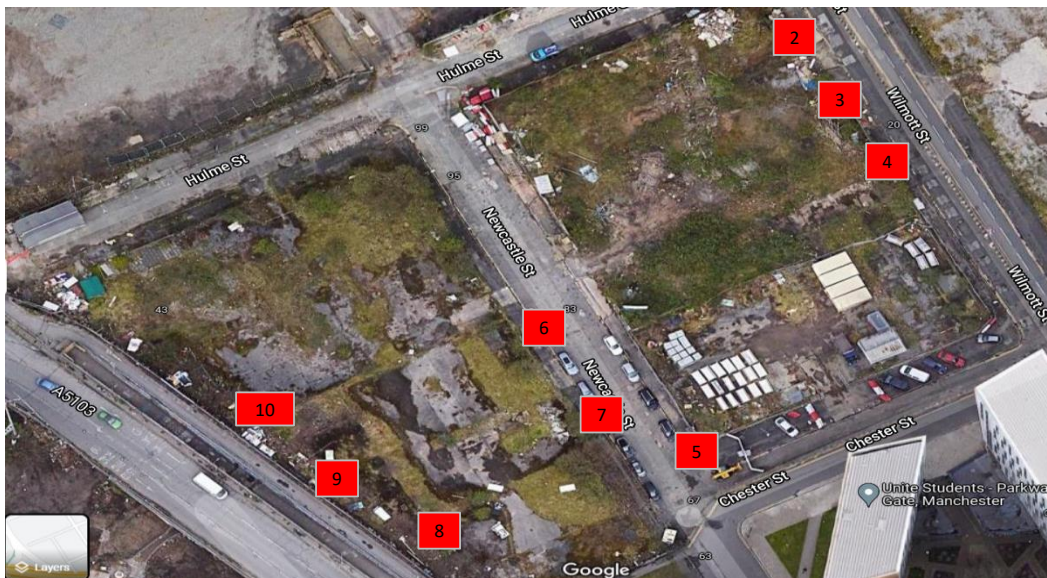
Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=TF)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/cm³	Recorded Result f/cm³	
1	N/A	105	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	0	100		Satisfactory			GA
2	113	105	NS	External During Excavation works	09:11	10:17	66	8.0	7.8	7.9	521	1.5	184	0.009	0.001	<0.01	GA
3	256	235	NS	External During Excavation works	09:12	10:18	66	8.0	7.9	8.0	525	1	183	0.009	0.001	<0.01	GA
4	268	274	NS	External During Excavation works	09:13	10:19	66	8.0	7.9	8.0	525	1	183	0.009	0.001	<0.01	GA
5	113	105	NS	External During Excavation works	10:58	11:58	60	8.0	7.9	8.0	477	2	201	0.010	0.001	<0.01	GA
6	256	235	NS	External During Excavation works	10:59	11:59	60	8.0	7.8	7.9	474	1	203	0.010	0.001	<0.01	GA
7	268	274	NS	External During Excavation works	11:00	12:00	60	8.0	7.8	7.9	474	1.5	203	0.010	0.001	<0.01	GA
8	113	105	NS	External During Excavation works	13:17	14:20	63	8.0	7.9	8.0	501	1.5	192	0.010	0.001	<0.01	GA
9	256	235	NS	External During Excavation works	13:18	14:21	63	8.0	7.9	8.0	501	1	192	0.010	0.001	<0.01	GA
10	268	274	NS	External During Excavation works	13:19	14:22	63	8.0	7.7	7.9	495	1	194	0.010	0.001	<0.01	GA
11				End													
12																	
Analyst Name:				Greg Allen		Signed:							Date:		26/01/2022		

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70570	Page	3	of	4
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR		Airlock/Baglock Chamber	---	Enclosure Material
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH				Negative Pressure Unit	2	Pump Location and Sample No.
Contact:	Chris Turner						
Tel No.:	0161 631 2740	Contractor:					
Email:	cturner@mpb.co.uk	MPB					

Diagram



Analyst Name:	Greg Allen	Signed:		Date:	26/01/2022
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Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70570	Page	4	of	4
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber --- Enclosure Material	Negative Pressure Unit 2 Pump Location and Sample No.		
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH						
Contact:	Chris Turner						
Tel No.:	0161 631 2740	Contractor:					
Email:	cturner@mpb.co.uk	MPB					

Diagram			
<u>Pump Examples:</u>			
Analyst Name:	Greg Allen	Signed:	
		Date:	26/01/2022

Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70571	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH		Manchester M3 3WR	Contract Foreman:		Chris Turner	
Contact:	Chris Turner			No. Additional Operatives:		N/A	
Tel No.:	0161 631 2740			Start Time:		08:00	
Email:	cturner@mpb.co.uk			Finish Time:		15:15	

Works to be undertaken:

Reassurance, Near Source & Far Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the induction and goes through the air monitoring requirements for the on coming shifts.

Weather: Overcast, Medium wind.

Near Source Air Monitoring started at 09:23 near the excavation works.

Near Source Air monitoring has finished at 14:42.

Near Source air monitoring is satisfactory and has yielded a result at <0.01f/ml.

Acorn inform MPB of the results.

Acorn leave site.

Analyst Name:	Greg Allen	Signed:		Date:	27/01/2022
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Daily Analytical Paperwork Air Monitoring Certificate



Project No.:	B-35527	Certificate No.:	70571	Page Number	2	of	4
Client Details		Site Details		Microscope No			
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Stage Micrometer			
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH			NPL Test Slide Number			
				Visible Bands			
				Flow Meter			
Contact:	Chris Turner			Measured Graticule Diameter (um) - d			
Tel No.:	0161 631 2740	Contractor		Tally Counters		04&05	Stopwatch
Email:	cturner@mpb.co.uk	MPB		Diameter of exposed filter (mm) - D		22.4	Batch No
						45	4312

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions					
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring

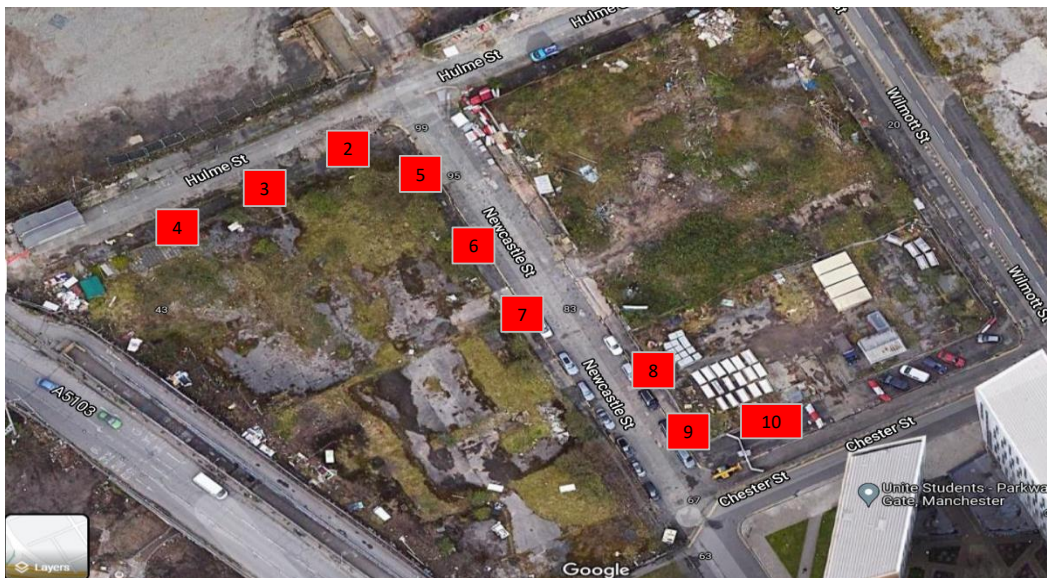
Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=TF)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/cm³	Recorded Result f/cm³	
1	N/A	79	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	0	100		Satisfactory			GA
2	268	79	NS	External During Excavation	09:23	10:34	71	8.0	7.8	7.9	561	2.5	171	0.009	0.001	<0.01	GA
3	256	70	NS	External During Excavation	09:25	10:35	70	8.0	7.8	7.9	553	2	174	0.009	0.001	<0.01	GA
4	113	105	NS	External During Excavation	09:27	10:36	69	8.0	7.9	8.0	549	2	175	0.009	0.001	<0.01	GA
5	256	79	NS	External During Excavation	11:02	12:03	61	8.0	7.9	8.0	485	1	198	0.010	0.001	<0.01	GA
6	113	105	NS	External During Excavation	11:03	12:04	61	8.0	7.8	7.9	482	1.5	199	0.010	0.001	<0.01	GA
7	268	70	NS	External During Excavation	11:04	12:05	61	8.0	7.9	8.0	485	2	198	0.010	0.001	<0.01	GA
8	268	70	NS	External During Excavation	13:38	14:40	62	8.0	7.8	7.9	490	2	196	0.010	0.001	<0.01	GA
9	113	105	NS	External During Excavation	13:39	14:41	62	8.0	7.9	8.0	493	1	195	0.010	0.001	<0.01	GA
10	256	79	NS	External During Excavation	13:40	14:42	62	8.0	7.8	7.9	490	1	196	0.010	0.001	<0.01	GA
11				END													
12																	
Analyst Name:				Greg Allen		Signed:							Date:		27/01/2022		

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70571	Page	3	of	4	
Client Details		Site Details		Key to Diagram				
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber	Enclosure Material	Negative Pressure Unit		2 Pump Location and Sample No.
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH							
Contact:	Chris Turner							
Tel No.:	0161 631 2740	Contractor:						
Email:	cturner@mpb.co.uk	MPB						

Diagram



Analyst Name:	Greg Allen	Signed:		Date:	27/01/2022
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Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70571	Page	4	of	4
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber --- Enclosure Material	Negative Pressure Unit 2 Pump Location and Sample No.		
Address:	1st Floor Centurion House 129 Deansgate Manchester M15 6JH						
Contact:	Chris Turner						
Tel No.:	0161 631 2740	Contractor:					
Email:	cturner@mpb.co.uk	MPB					

Diagram			
<u>Pump Examples:</u>			
Analyst Name:	Greg Allen	Signed:	
Date:	27/01/2022		

Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70572	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		08:00	
Contact:	Chris Turner			Finish Time:		15:00	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Reassurance, Near Source & Far Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the induction and goes through the air monitoring requirements for the on coming shifts.

Weather: Overcast, Medium wind.

Near Source Air Monitoring started at 09:10

Near Source Air monitoring has finished at 13:32

Near Source air monitoring is 13:53 and has yielded a satisfactory result at <0.01f/ml.

Acorn inform MPB of the results.

Acorn leave site.

Analyst Name:	Greg Allen	Signed:		Date:	28/01/2022
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Daily Analytical Paperwork

Air Monitoring Certificate



Project No.:	B-35527	Certificate No.:	70572	Page Number	2	of	4
Client Details		Site Details		Microscope No	600386		
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Stage Micrometer	SM27		
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH			NPL Test Slide Number	3712		
Contact:	Chris Turner			Visible Bands	5		
Tel No.:	0161 631 2740			Flow Meter	056 & 063		
Email:	cturner@mpb.co.uk	Contractor		Measured Graticule Diameter (um) - d	100		
		MPB		Tally Counters	04 & 05	Stopwatch	45
				Diameter of exposed filter (mm) - D	22.4	Batch No	4312

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions					
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring

Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=T*F)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/ml	Recorded Result f/ml	
1	N/A	70	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	200	Satisfactory			GA
2	99	70	NS	External During Excavation	09:10	10:14	64	8.0	7.8	7.9	506	1.5	190	0.009	0.001	<0.01	GA
3	113	79	NS	External During Excavation	09:11	10:15	64	8.0	8.0	8.0	512	1	188	0.009	0.001	<0.01	GA
4	256	105	NS	External During Excavation	09:12	10:16	64	8.0	7.9	8.0	509	1	189	0.009	0.001	<0.01	GA
5	268	235	NS	External During Excavation	09:13	10:18	65	8.0	7.9	8.0	517	2	186	0.009	0.001	<0.01	GA
6	99	70	NS	External During Excavation	11:19	13:20	121	4.0	4.0	4.0	484	0.5	198	0.010	0.000	<0.01	GA
7	113	79	NS	External During Excavation	11:20	13:21	121	4.0	4.0	4.0	484	0.5	198	0.010	0.000	<0.01	GA
8	256	105	NS	External During Excavation	11:25	13:26	121	4.0	4.0	4.0	484	1	198	0.010	0.001	<0.01	GA
9	268	235	NS	External During Excavation	11:48	13:49	121	4.0	4.0	4.0	484	1.5	198	0.010	0.001	<0.01	GA
10	120	274	NS	External During Excavation	11:52	13:53	121	4.0	4.0	4.0	484	1	198	0.010	0.001	<0.01	GA
11				END													
12																	
Analyst Name:				Greg Allen	Signed:								Date:	28/01/2022			

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70572	Page		of	4	
Client Details		Site Details		Key to Diagram				
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber	Site Perimeter	Negative Pressure Unit		2 Pump Location and Sample No.
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH							
Contact:	Chris Turner							
Tel No.:	0161 631 2740	Contractor:						
Email:	cturner@mpb.co.uk	MPB						

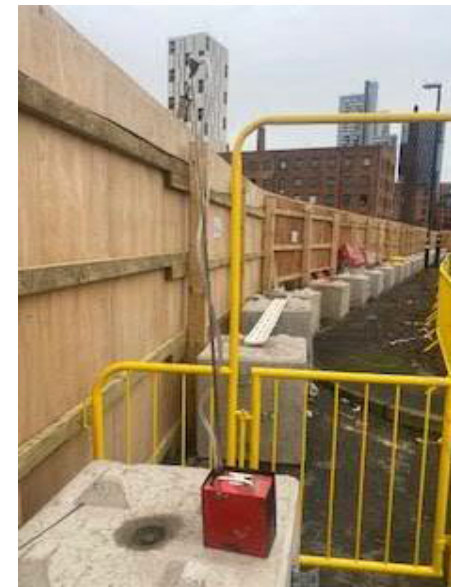
Diagram			
<u>Site Carpark</u>  <u>Site Entrance</u>			
Analyst Name:	Greg Allen	Signed:	
		Date:	28/01/2022

Daily Analytical Paperwork Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70572	Page	4	of	4		
Client Details		Site Details		Key to Diagram					
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber	Enclosure Material	Negative Pressure Unit		2 Pump Location and Sample No.	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH								
Contact:	Chris Turner								
Tel No.:	0161 631 2740	Contractor:							
Email:	cturner@mpb.co.uk	MPB							

Diagram

Pump Locations Examples :



Analyst Name:	Greg Allen	Signed:		Date:	28/01/2022
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Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70732	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		10.30	
Contact:	Chris Turner			Finish Time:		1330	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Near Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the induction and goes through the air monitoring requirements for the on coming shifts.

Weather: Light rain, Medium wind.

Near Source Air Monitoring started at 11:18

Near Source Air monitoring has finished at 12:26

Near Source air monitoring has yielded a satisfactory result at <0.01f/ml.

Acorn inform MPB of the results.

Acorn leave site.

Analyst Name:	Lee Padgett	Signed:		Date:	07/02/2022
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Daily Analytical Paperwork

Air Monitoring Certificate



Project No.:	B-35527	Certificate No.:	70732	Page Number	2	of	4
Client Details		Site Details		Microscope No	600900		
Name:	MPB Structures Ltd	Site Address:	Newcastle Street	Stage Micrometer	SM16		
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR		Manchester M15 6JH	NPL Test Slide Number	2511		
				Visible Bands	5		
				Flow Meter	25		
Contact:	Chris Turner			Measured Graticule Diameter (um) - d	100		
Tel No.:	0161 631 2740	Contractor		Tally Counters	76 & 77	Stopwatch	SW56
Email:	cturner@mpb.co.uk	MPB		Diameter of exposed filter (mm) - D	22.4	Batch No	4384

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions					
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring

Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=T*F)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/ml	Recorded Result f/ml	
1	N/A	257	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	200	Satisfactory			LP
2	50	5	NS	External During Excavation	11.18	12.20	62	8.5	8.3	8.4	521	1.5	184	0.009	0.001	<0.01	LP
3	51	9	NS	External During Excavation	11.20	12.22	62	8.5	8.5	8.5	527	1	182	0.009	0.001	<0.01	LP
4	112	11	NS	External During Excavation	11.22	12.24	62	8.5	8.2	8.4	518	1	185	0.009	0.001	<0.01	LP
5	143	30	NS	External During Excavation	11.24	12.26	62	8.5	8.4	8.5	524	0.5	183	0.009	0.000	<0.01	LP
6				END													
7																	
8																	
9																	
10																	
11																	
12																	
Analyst Name:				Lee Padgett	Signed:								Date:	07/02/2022			

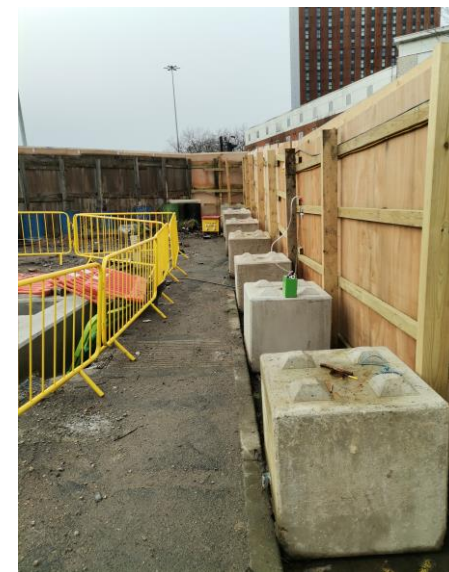
Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70732	Page	4	of	4
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH		Airlock/Baglock Chamber	---	Enclosure Material
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR						
Contact:	Chris Turner						
Tel No.:	0161 631 2740	Contractor:			Negative Pressure Unit	2	Pump Location and Sample No.
Email:	cturner@mpb.co.uk	MPB					

Diagram

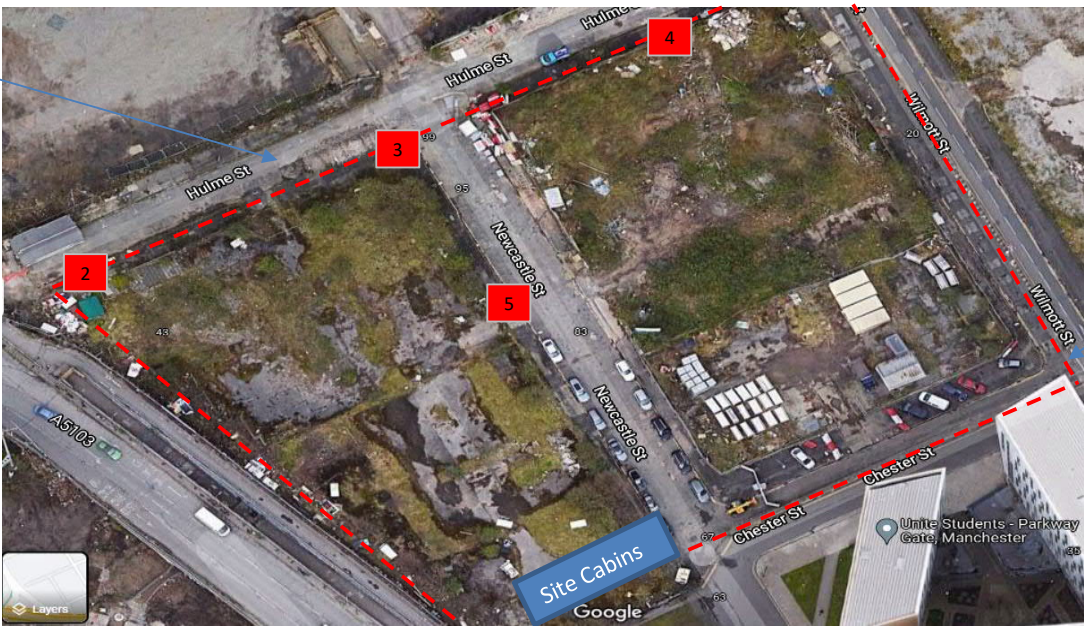
Pump Locations Examples :



Analyst Name:	Lee Padgett	Signed:		Date:	07/02/2022
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Daily Analytical Paperwork Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70732	Page	3	of	4		
Client Details		Site Details		Key to Diagram					
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	Airlock/Baglock Chamber	Site Perimeter	Negative Pressure Unit		2 Pump Location and Sample No.	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR								
Contact:	Chris Turner								
Tel No.:	0161 631 2740	Contractor:							
Email:	cturner@mpb.co.uk	MPB							

Diagram			
<u>Site Carpark</u>  <u>Site Entrance</u>			
Analyst Name:	Lee Padgett	Signed:	
		Date:	07/02/2022

Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70734	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		12.30	
Contact:	Chris Turner			Finish Time:		15.00	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Near Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the air monitoring requirements for todays shift.

Weather: Light rain, Medium wind.

Near Source Air Monitoring started at 12:45

Near Source Air monitoring has finished at 13:53

Near Source air monitoring has yielded a satisfactory result at <0.01f/ml.

Acorn inform MPB of the results.

Acorn leave site.

Analyst Name:	Lee Padgett	Signed:		Date:	08/02/2022
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Daily Analytical Paperwork Air Monitoring Certificate

Project No.:	B-35527	Certificate No.:	70734	Page Number	2	of	4
Client Details		Site Details		Microscope No		600900	
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	Stage Micrometer		SM16	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR			NPL Test Slide Number		2511	
				Visible Bands		5	
				Flow Meter		25	
Contact:	Chris Turner			Measured Graticule Diameter (um) - d		100	
Tel No.:	0161 631 2740	Contractor		Tally Counters		76 & 77	Stopwatch
Email:	cturner@mpb.co.uk	MPB		Diameter of exposed filter (mm) - D		22.4	Batch No
						4384	

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions					
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring

Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=T*F)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/ml	Recorded Result f/ml	
1	N/A	63	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.5	200		Satisfactory		LP
2	50	5	NS	External During Excavation	12.45	13.47	62	8.5	8.4	8.5	524	1	183	0.009	0.001	<0.01	LP
3	51	9	NS	External During Excavation	12.47	13.49	62	8.5	8.5	8.5	527	0.5	182	0.009	0.000	<0.01	LP
4	112	11	NS	External During Excavation	12.49	13.51	62	8.5	8.2	8.4	518	1	185	0.009	0.001	<0.01	LP
5	143	30	NS	External During Excavation	12.51	13.53	62	8.5	8.5	8.5	527	1.5	182	0.009	0.001	<0.01	LP
6				END													
7																	
8																	
9																	
10																	
11																	
12																	
Analyst Name:				Lee Padgett			Signed:						Date:		08/02/2022		

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70734	Page	3	of	4
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	Airlock/Baglock Chamber	Enclosure Material		
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR						
Contact:	Chris Turner						
Tel No.:	0161 631 2740	Contractor:		Negative Pressure Unit	2 Pump Location and Sample No.		
Email:	cturner@mpb.co.uk	MPB					

Diagram

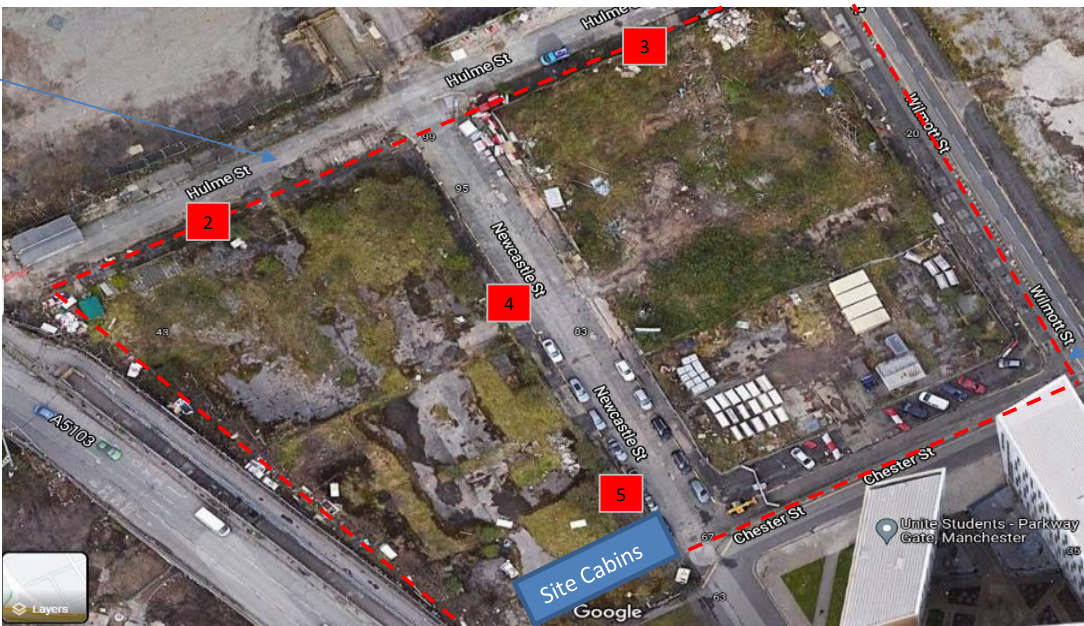
Pump Locations Examples :



Analyst Name:	Lee Padgett	Signed:		Date:	08/02/2022
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Daily Analytical Paperwork Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70734	Page	4	of	4		
Client Details		Site Details		Key to Diagram					
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	Airlock/Baglock Chamber	Site Perimeter	Negative Pressure Unit		2 Pump Location and Sample No.	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR								
Contact:	Chris Turner								
Tel No.:	0161 631 2740	Contractor:							
Email:	cturner@mpb.co.uk	MPB							

Diagram			
<u>Site Carpark</u>  <u>Site Entrance</u>			
Analyst Name:	Lee Padgett	Signed:	
		Date:	08/02/2022

Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B35527	Report No.:	71310	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street	Contractor:		N/A	
Address:	1st Floor Centurion House		Manchester	Contract Foreman:		N/A	
	129 Deansgate		M15 6JH	No. Additional Operatives:		N/A	
	Manchester, M3 3WR		N/A	Start Time:		1300	
Contact:	Chris Turner		N/A	Finish Time:		1600	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Description of Works

Acorn will be providing Near Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary:

Acorn arrive onsite met with site manager to discuss todays ongoing works.

Near source air testing begins.

Near source air testing complete.

Sample N0.6 Occluded due to dust from Stihl saw in use near pump location.

MPB are informed of air testing results.

Acorn leave site

Air tests complete. Result shows a satisfactory fibre concentration level of <0.010f/ml.

Analyst Name:	Kieran Halse	Signed:		Date:	09/02/2022
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Daily Analytical Paperwork

Air Monitoring Certificate



Project No.:	B35527	Certificate No.:	71310	Page Number	2	of	4
Client Details		Site Details		Microscope No	600945		
Name:	MPB Structures Ltd	Site Address:	Newcastle Street	Stage Micrometer	SM036		
Address:	1st Floor Centurion House		Manchester	NPL Test Slide Number	8882		
	129 Deansgate		M15 6JH	Visible Bands	5		
	Manchester, M3 3WR		N/A	Flow Meter	FM14		
Contact:	Chris Turner		N/A	Measured Graticule Diameter (um) - d	100		
Tel No.:	0161 631 2740	Contractor		Tally Counters	38/69	Stopwatch	SW065
Email:	cturner@mpb.co.uk	N/A		Diameter of exposed filter (mm) - D	22.4	Batch No	4405

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

Test Conditions						
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring	

Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=T*F)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/ml	Recorded Result f/ml	
1	N/A	312	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.5	200	SATISFACTORY			KH
2	AC54	308	NS	Site excavation outside Fencing. (Diagram 1)	1320	1421	61	8.0	8.0	8.0	488	2	197	0.010	0.001	<0.010	KH
3	AC69	309	NS	Site excavation outside Fencing. (Diagram 1)	1322	1423	61	8.0	8.0	8.0	488	1.5	197	0.010	0.001	<0.010	KH
4	AC108	310	NS	Site excavation outside Fencing. (Diagram 1)	1324	1425	61	8.0	8.0	8.0	488	1	197	0.010	0.001	<0.010	KH
5	AC289	311	NS	Site excavation outside Fencing. (Diagram 1)	1327	1428	61	8.0	8.0	8.0	488	1.5	197	0.010	0.001	<0.010	KH
6	AC54	312	NS	Site excavation outside Fencing. (Diagram 1)	1430	1525	55	9.0	8.6	8.8	484	OCCOLUDED					KH
7	AC69	313	NS	Site excavation outside Fencing. (Diagram 1)	1432	1527	55	9.0	8.5	8.8	481	2	199	0.010	0.001	<0.010	KH
8	AC289	314	NS	Site excavation outside Fencing. (Diagram 1)	1434	1529	55	9.0	9.0	9.0	495	1	194	0.010	0.001	<0.010	KH
9				END													
10																	
11																	
12																	
Analyst Name:				Kieran Halse		Signed:						Date:		09/02/2022			

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B35527	Report No.:	71310	Page	3	of	4	
Client Details		Site Details		Key to Diagram				
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH N/A N/A	Airlock/Baglock Chamber	Enclosure Material	Negative Pressure Unit		2 Pump Location and Sample No.
Address:	1st Floor Centurion House 129 Deansgate Manchester, M3 3WR							
Contact:	Chris Turner							
Tel No.:	0161 631 2740	Contractor:						
Email:	cturner@mpb.co.uk	N/A						

Diagram			
 Car Park Site Welfare Site Entrance			
Analyst Name:	Kieran Halse	Signed:	
		Date:	09/02/2022

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B35527	Report No.:	71310	Page	4	of	4	
Client Details		Site Details		Key to Diagram				
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH N/A N/A	Airlock/Baglock Chamber	Enclosure Material	Negative Pressure Unit		2 Pump Location and Sample No.
Address:	1st Floor Centurion House 129 Deansgate Manchester, M3 3WR							
Contact:	Chris Turner							
Tel No.:	0161 631 2740	Contractor:						
Email:	cturner@mpb.co.uk	N/A						

Diagram



Analyst Name:	Kieran Halse	Signed:		Date:	09/02/2022
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Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	71705	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		13:00	
Contact:	Chris Turner			Finish Time:		15.30	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Near Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Leah Valente arrives on site and meets with Chris Turner who goes through the air monitoring requirements within today's shift.

Weather: Light rain and slight wind

Near source air monitoring commences at 13:14

Near source air monitoring finishes at 15:12

All air test carried out within today's shift returned a satisfactory fibre level. Please refer to relevant pages for more information.

Leah Valente informs MPB of results

Leah Valente leaves site.

Analyst Name:	Leah Valente	Signed:		Date:	10/02/2022
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Daily Analytical Paperwork Air Monitoring Certificate

Project No.:	B-35527	Certificate No.:	71705	Page Number	2	of	4	
Client Details		Site Details		Microscope No				
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH	600900				
Address:	1st Floor Centurion House			Stage Micrometer				
	129 Deans Gate			SM036				
	Manchester M3 3WR			NPL Test Slide Number				
8882								
Contact:	Chris Turner	Visible Bands						
5								
Tel No.:	0161 631 2740	Flow Meter						
		14						
Email:	cturner@mpb.co.uk	Measured Graticule Diameter (um) - d						
		100						
		Contractor		Tally Counters		69 & 38	Stopwatch	SW65
		MPB		Diameter of exposed filter (mm) - D		22.4	Batch No	4406

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

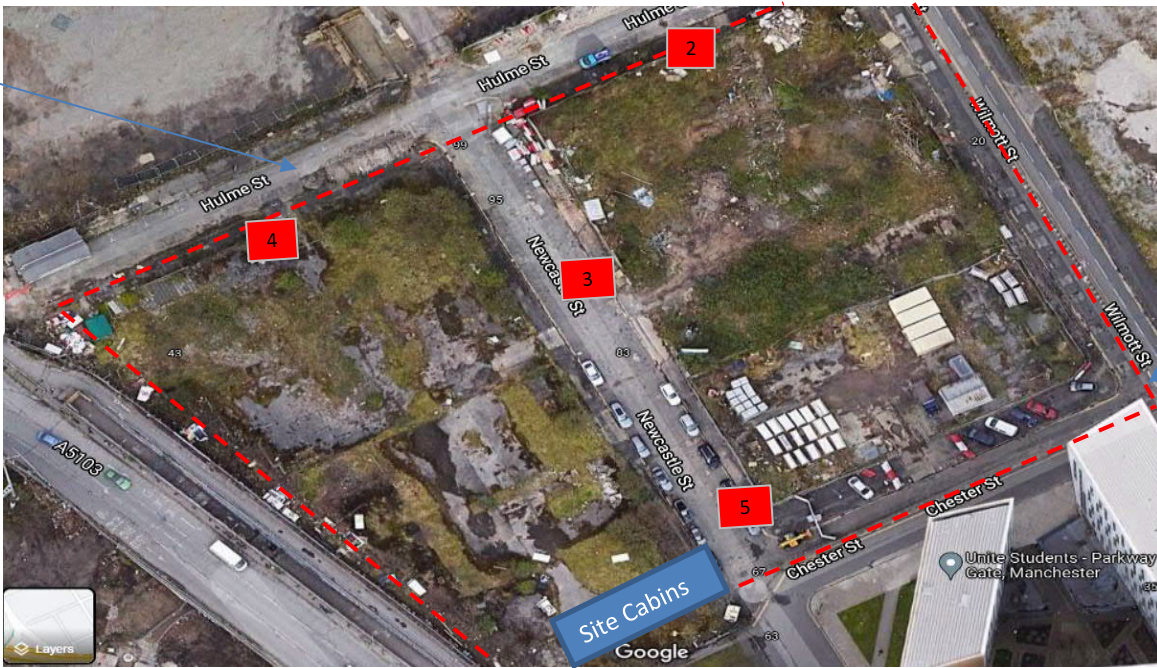
Test Conditions						
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring	

Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=T*F)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/ml	Recorded Result f/ml	
1	N/A	310	SF	To area of works and back to site office	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	100	Satisfactory			LV
2	302	308	NS	External around excavation works	13:14	14:16	62	8.5	8.5	8.5	527	2	182	0.009	0.001	<0.01	LV
3	304	309	NS	External around excavation works	13:15	14:18	63	8.5	8.5	8.5	536	3.5	179	0.009	0.002	<0.01	LV
4	305	310	NS	External around excavation works	14:20	15:10	50	10.0	10.0	10.0	500	1.5	192	0.010	0.001	<0.01	LV
5	306	3130	NS	External around excavation works	14:22	15:12	52	10.0	10.0	10.0	520	2	185	0.009	0.001	<0.01	LV
6																	
7																	
8																	
9																	
10																	
11																	
12																	
Analyst Name:				Leah Valente			Signed:						Date:		10/02/2022		

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	71705	Page	4	of	4
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH		Airlock/Baglock Chamber	---	Site Perimeter
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR						
Contact:	Chris Turner			2	Pump Location and Sample No.		
Tel No.:	0161 631 2740	Contractor:					
Email:	cturner@mpb.co.uk	MPB					

Diagram			
			
Analyst Name:	Leah Valente	Signed:	
		Date:	10/02/2022

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	71705	Page	3	of	4
Client Details		Site Details		Key to Diagram			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M15 6JH		Airlock/Baglock Chamber		Enclosure Material
Address:	1st Floor Centurion House 129 Deans Gate Manchester M3 3WR				-----		
Contact:	Chris Turner					Negative Pressure Unit	2
Tel No.:	0161 631 2740	Contractor:					
Email:	cturner@mpb.co.uk	MPB					

Diagram

Example of pump location (pump 4)



Analyst Name:	Leah Valente	Signed:		Date:	10/02/2022
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Daily Analytical Paperwork

Daily Site Reference Log

Project No.:	B-35527	Report No.:	70586	Page	1	of	4
Client Details		Site Details		Start Time:			
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Contractor:		MPB	
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH			Contract Foreman:		Chris Turner	
				No. Additional Operatives:		N/A	
				Start Time:		08:00	
Contact:	Chris Turner			Finish Time:		15:00	
Tel No.:	0161 631 2740						
Email:	cturner@mpb.co.uk						

Works to be undertaken:

Reassurance, Near Source & Far Source Air Monitoring at Newcastle Street during the clearance of the site following demolition works.

Site Diary

Acorn arrive on site and meet with Chris Turner who goes through the induction and goes through the air monitoring requirements for the on coming shifts.

Weather: Overcast, Medium wind.

Near Source Air Monitoring started at 12:27

Near Source Air monitoring has finished at 14:45

Near Source air monitoring has yielded a satisfactory result at <0.01f/ml.

Acorn inform MPB of the results.

Acorn leave site.

Analyst Name:	Greg Allen	Signed:		Date:	11/02/2022
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Daily Analytical Paperwork

Air Monitoring Certificate



Project No.:	B-35527	Certificate No.:	70586	Page Number	2	of	4
Client Details		Site Details		Microscope No	600386		
Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Stage Micrometer	SM27		
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH			NPL Test Slide Number	3712		
Contact:	Chris Turner			Visible Bands	5		
Tel No.:	0161 631 2740			Flow Meter	056 & 063		
Email:	cturner@mpb.co.uk	Contractor		Measured Graticule Diameter (um) - d	100		
		MPB		Tally Counters	04 & 05	Stopwatch	45
				Diameter of exposed filter (mm) - D	22.4	Batch No	4312

This certificate is issued in accordance with the documented in-house method for carrying out air sampling and fibre analysis procedures which is accredited by UKAS and follows the guidance set out in HSG248 (Edition 2)

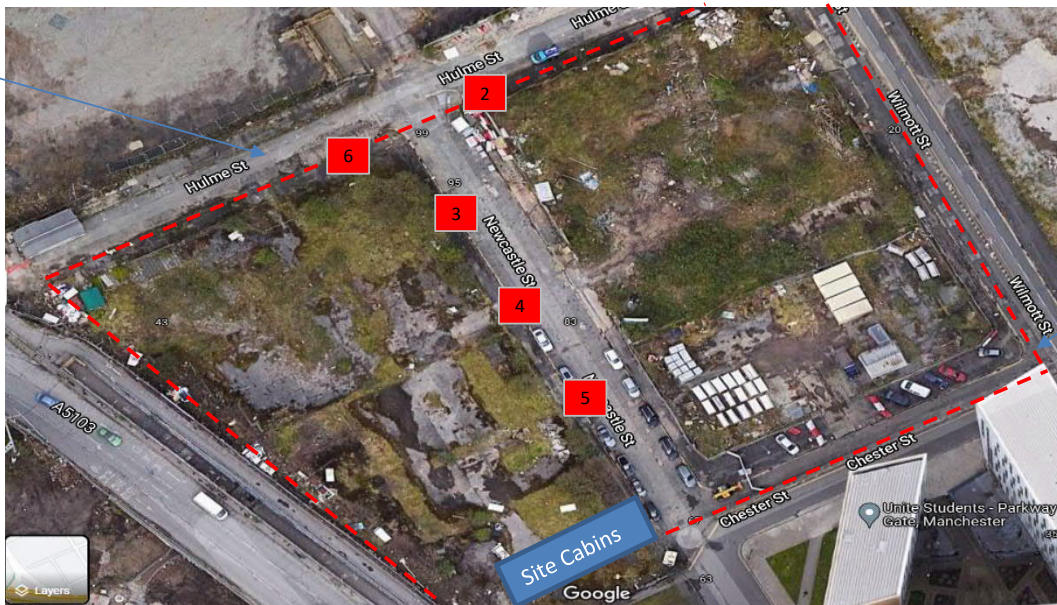
Test Conditions						
BT Background Test	LT Leakage Test	RT Reassurance Test	SF Site Field Blank	FS Far Source Monitoring	NS Near Source Monitoring	

Sample No.	Pump No.	Cowl No.	Test	Pump Location	Time		Sample Time (T)	Flow Rate (l/m)			Volume (V) (V=TF)	Fibres (N)	Fields (n)	Limit of Quantification	Respirable fibre concentration		Analyst
					Start	Finish		Initial Flow	Final Flow	Average Flow (F)					Calculated Result f/ml	Recorded Result f/ml	
1	N/A	70	SF	Lab Storage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	200		Satisfactory		GA
2	99	70	NS	External During Excavation	12:27	13:29	62	8.0	8.0	8.0	496	1	194	0.010	0.001	<0.01	GA
3	120	79	NS	External During Excavation	12:28	13:30	62	8.0	8.0	8.0	496	0.5	194	0.010	0.000	<0.01	GA
4	268	235	NS	External During Excavation	12:29	13:31	62	8.0	8.0	8.0	496	1	194	0.010	0.001	<0.01	GA
5	99	70	NS	External During Excavation	13:42	14:44	62	8.0	8.0	8.0	496	1.5	194	0.010	0.001	<0.01	GA
6	268	79	NS	External During Excavation	13:43	14:45	62	8.0	8.0	8.0	496	1	194	0.010	0.001	<0.01	GA
7				END													
8																	
9																	
10																	
11																	
12																	
Analyst Name:				Greg Allen	Signed:								Date:	11/02/2022			

Daily Analytical Paperwork

Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70586	Page		of	4	
Client Details		Site Details		Key to Diagram				
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber	Site Perimeter	Negative Pressure Unit		2 Pump Location and Sample No.
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH							
Contact:	Chris Turner							
Tel No.:	0161 631 2740	Contractor:						
Email:	cturner@mpb.co.uk	MPB						

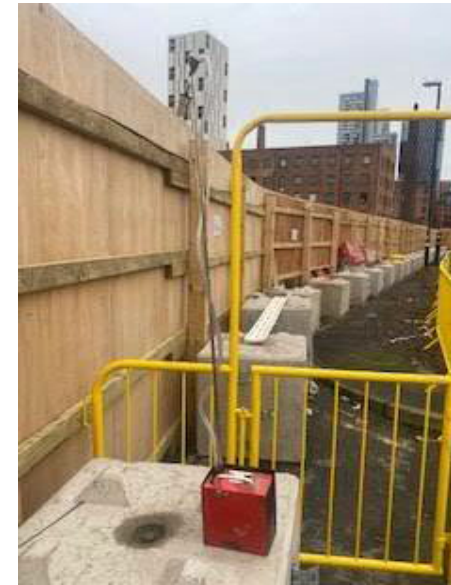
Diagram			
<u>Site Carpark</u>  <u>Site Entrance</u>			
Analyst Name:	Greg Allen	Signed:	
		Date:	11/02/2022

Daily Analytical Paperwork Diagram Photo Reference Sheet

Project No.:	B-35527	Report No.:	70586	Page	4	of	4	
Client Details		Site Details		Key to Diagram				
Client Name:	MPB Structures Ltd	Site Address:	Newcastle Street Manchester M3 3WR	Airlock/Baglock Chamber	Enclosure Material	Negative Pressure Unit		2 Pump Location and Sample No.
Address:	1st Floor Centurion House 129 Deans Gate Manchester M15 6JH							
Contact:	Chris Turner							
Tel No.:	0161 631 2740	Contractor:						
Email:	cturner@mpb.co.uk	MPB						

Diagram

Pump Locations Examples :



Analyst Name:	Greg Allen	Signed:		Date:	11/02/2022
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A P P E N D I X J

Land Appraisal | Environmental | Geotechnical | Design | Mining | Inspections

GRM Development Solutions Limited, Laurus House, First Avenue, Centrum 100, Burton upon Trent, Staffs DE14 2WH
www.grm-uk.com | info@grm-uk.com | 01283 551249 Company No. 3099018 (England), VAT Reg. No. 658 1005 48



DO NOT SCALE FROM THIS DRAWING

Notes

Legend

- < 310 mg/kg
- > 310 mg/kg
- Results from the ground investigation performed in 2016
- ① TP111 at 0.3m 540 mg/kg
- ② CP/RC101A 0.6m 360 mg/kg
- ② CP/RC101A 3.3m 520 mg/kg
- ② CP/RC101B 0.6m 530 mg/kg
- ③ CP/RC106A 0.6m 370 mg/kg
- Results based on Drawing Number 001 (Capita Symonds) from the ground investigation performed in 2011
- ④ WS101 at 0.5m 990 mg/kg
- ⑤ WS105 at 0.3m 10 mg/kg

Issue	Date	Description	By	Chkd	Verfd
-------	------	-------------	----	------	-------

Project
First Street: Plot 8

Client
Ask Property Developments Ltd

Architect
RTKL

Title
Lead Concentrations
Recorded in Laboratory
Testing of Samples

Drawing No. 1011906.DWG.GL.0014		Drawing Status Final	
Job No. 1011906		Scale 1:1,500 (in A3)	
Originator SD	Checked DM	Verified KDM	Issue. -

CUNDALL

4th Floor Partnership House
Regent Farm Road , Gosforth
Newcastle-upon-Tyne
NE3 3AF
Telephone +44 (0)191 213 1515
Website: www.cundall.com

DO NOT SCALE FROM THIS DRAWING

Notes

Legend

- Not Detected
- Detected but < 0.001% Mass by Volume
- > 0.001% Mass by Volume
- ①

CP/RC101A Chrysotile at 0.6m 0.002%
- ②

AOP8BE5 Chrysotile at 0.5m 0.002%
- ③

AOP8BE5 Crocidolite at 0.5m 0.001%
- ④

AOP8AF7 Crocidolite at 1.0m 1.48%
- ⑤

AOP8BB5 Chrysotile at 0.7m 0.002%
- ⑥

AOP8BE5 Chrysotile at 0.5m 0.015%

Issue	Date	Description	By	Chkd	Verfd
-------	------	-------------	----	------	-------

Project
First Street: Plot 8

Client
Ask Property Developments Ltd

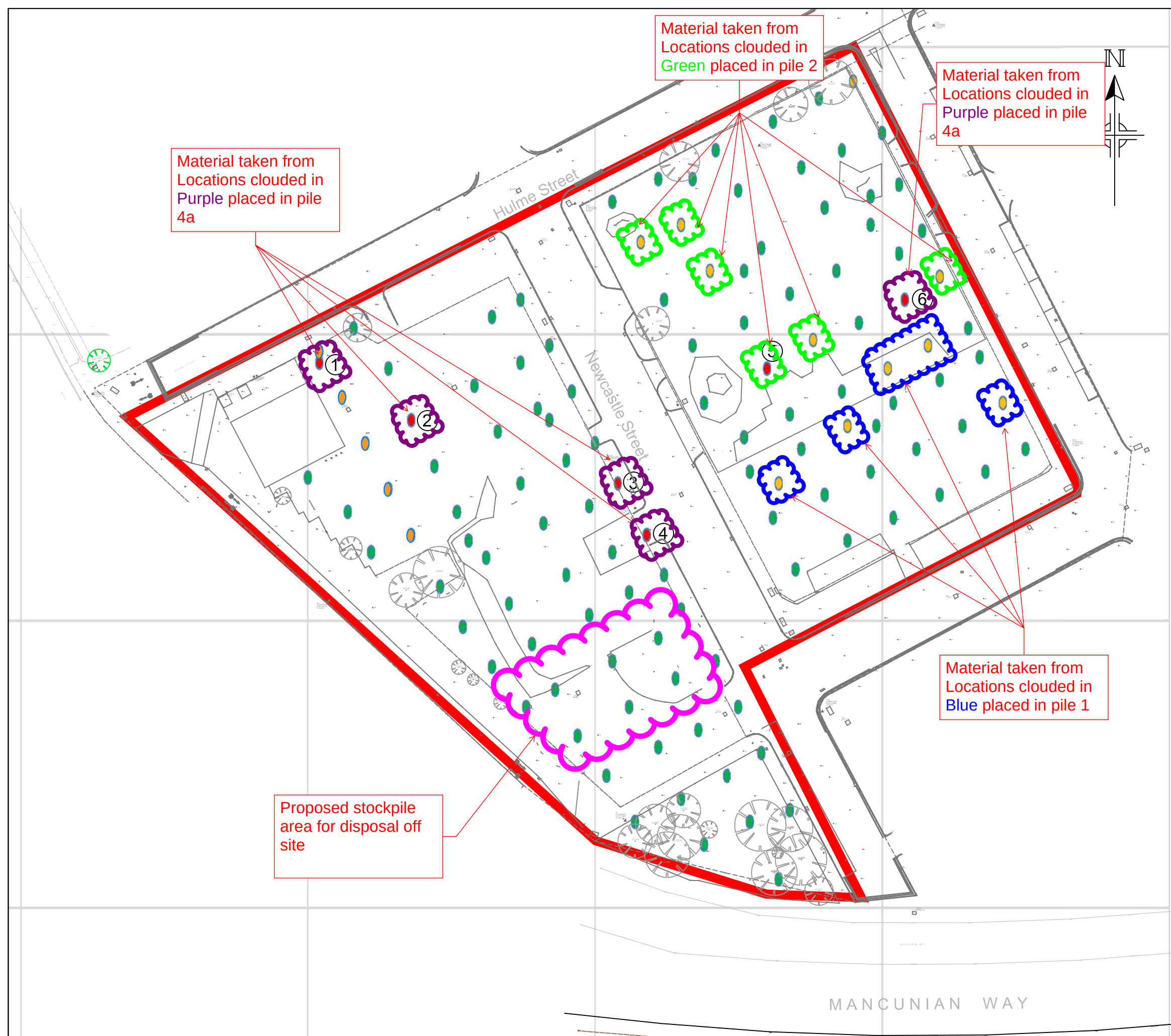
Architect
RTKL

Title
Asbestos Concentrations
Recorded in Laboratory
Testing of Samples

Drawing No. 1011906.DWG.GL.015		Drawing Status Final	
Job No. 1011906		Scale 1:1,500 (in A3)	
Originator SD	Checked DM	Verified KDM	Issue. -

CUNDALL

4th Floor: Partnership House
Regent Farm Road , Gosforth
Newcastle-upon-Tyne
NE3 3AF
Telephone +44 (0)191 213 1515
Website: www.cundall.com





A P P E N D I X K

Land Appraisal | Environmental | Geotechnical | Design | Mining | Inspections

GRM Development Solutions Limited, Laurus House, First Avenue, Centrum 100, Burton upon Trent, Staffs DE14 2WH
www.grm-uk.com | info@grm-uk.com | 01283 551249 Company No. 3099018 (England), VAT Reg. No. 658 1005 48

Laboratory Report	DNR-95687-95690	Contract Sample No	DN4186/15-18
Report Date	15 February 2022	Clients Reference	DN4186/15-18
MPB Structures Limited 14 Crucible Road Corby Northamptonshire NN17 5TS First Street, Manchester		Material Description	Brown Gravelly Clay
		Source	Ex Site
		Supplier	Ex Site
		Date Sampled	Not Stated
		Date Received	28/01/2022
		Date Completed	14/02/2022
		Sample Location	Stockpile



Construction Testing Solutions

Bootham Lane Industrial Estate
Dunscroft | Doncaster | DN7 4JU
T | (01302) 352652
E | enquiries@constructiontesting.co.uk
W | www.constructiontesting.co.uk

WAC, Metals & Asbestos Analysis

Please find enclosed test certificate (L22/00656/CTS-22-23873) supplied by our approved Sub-contract Laboratory, Nicholls Colton

Authorised Signatory


M Barton - Administration Assistant



Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

Construction Testing Solutions
Bootham Lane Industrial Estate
Duncroft
Doncaster
DN7 4JU

Analytical Test Report: L22/00656/CTS - 22-23873

Your Project Reference: 21593 First Street Manchester

Your Order Number: 21593 Samples Received / Instructed: 02/02/2022 / 02/02/2022

Report Issue Number: 1 Sample Tested: 02/02 to 14/02/2022

Samples Analysed: 4 soil samples Report issued: 14/02/2022

Signed

James Gane
Data Manager
Nicholls Colton Group

Notes:

General

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Moisture Content was determined in accordance with NC method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with NC method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Samples were supplied by customer, results apply to the samples as received.

Asbestos

Please note: Where further analysis is required samples identified as containing asbestos are screened and tested on an as received basis. No correction is made for moisture content and these results are not covered by our accreditation

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

WAC Testing

Samples were leached in accordance with BS EN 12457-2: 2002.

Eluate Results are reported as L/S 10. These results have been calculated in accordance with BS EN 12457-2:2002.

Comparative values are taken from the Council Decision Annex - CRITERIA AND PROCEDURES FOR THE ACCEPTANCE OF WASTE AT LANDFILLS, (2003/33/EC).

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of Issue 10/12/2020

Owned by Emily Blissett - Customer Services Supervisor

Authorised by James Gane - Commercial Manager

L:\DATA\REPORTS\CTS777\L22-00656-CTS - 22-23873.XLSM\TPH Codes

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Analytical Test Results - Soil

NC Reference			214742	214743	214744	214745
Client Sample ID			DN4186/15	DN4186/16	DN4186/17	DN4186/18
Client Sample Location			Stockpile	Stockpile	Stockpile	Stockpile
Client Sample Type			-	-	-	-
Client Sample Number			-	-	-	-
Depth - Top (m)			-	-	-	-
Depth - Bottom (m)			-	-	-	-
Date of Sampling			-	-	-	-
Time of Sampling			-	-	-	-
Sample Matrix			Sand	Sand	Sand	Sand
Determinant	Units	Accreditation				
Arsenic	(mg/kg)	MCERTS	21	17	17	15
Beryllium	(mg/kg)	MCERTS	1.2	1.1	1.2	1.1
Boron (w/s)	(mg/kg)	u	< 2.5	< 2.5	< 2.5	< 2.5
Cadmium	(mg/kg)	MCERTS	1.8	1.5	1.7	1.6
Chromium (Total)	(mg/kg)	UKAS	23	21	22	24
Copper	(mg/kg)	MCERTS	110	85	92	82
Lead	(mg/kg)	MCERTS	330	220	240	190
Mercury	(mg/kg)	UKAS	< 2.5	< 2.5	< 2.5	< 2.5
Nickel	(mg/kg)	MCERTS	29	25	27	28
Selenium	(mg/kg)	u	< 8.0	< 8.0	< 8.0	< 8.0
Vanadium	(mg/kg)	UKAS	34	30	33	32
Zinc	(mg/kg)	MCERTS	190	150	160	150
Chromium (Hexavalent)	(mg/kg)	u	< 1.0	< 1.0	< 1.0	< 1.0
Asbestos	-	UKAS	Chrysotile	No asbestos detected	No asbestos detected	No asbestos detected
ACM Type Detected	-	u	Fibre clump	-	-	-
Total Asbestos Content	(%)	UKAS	< 0.001	-	-	-
Asbestos Stage used	-	u	3	-	-	-
Mass of sample tested	(g)	u	689	-	-	-

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Certificate Of Analysis - WAC Suite

NC Reference			214742			
Client Sample ID			DN4186/15			
Client Sample Location			Stockpile			
Client Sample Type			-			
Client Sample Number			-			
Depth - Top (m)			-			
Depth - Bottom (m)			-			
Date of Sampling			-			
Time of Sampling			-			
Sample Description			Dark greyish brown slightly clayey gravelly silty sand with rare brick fragments			
Sample Matrix			Sand			
Moisture Content (%)			12			
Stone content (%)			22			
			Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
Solid Analysis						
Total Organic Carbon	%	MCERTS	3.7	3.0	5.0	6.0
Loss on Ignition	%	UKAS	5.7	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	u	437	500	-	-
PAH	mg/kg	u	58	100	-	-
pH	units	MCERTS	8.7	-	> 6	-
Eluate Analysis						
Arsenic	mg/kg	u	0.04	0.50	2	25
Barium	mg/kg	u	0.13	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	0.01	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.05	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.05	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	0.02	0.1	0.5	7
Zinc	mg/kg	u	< 0.05	4	50	200
Chloride	mg/kg	u	3	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	590	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1100	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	30.0	500	800	1000

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Certificate Of Analysis - WAC Suite

NC Reference			214743			
Client Sample ID			DN4186/16			
Client Sample Location			Stockpile			
Client Sample Type			-			
Client Sample Number			-			
Depth - Top (m)			-			
Depth - Bottom (m)			-			
Date of Sampling			-			
Time of Sampling			-			
Sample Description			Dark greyish brown slightly clayey gravelly silty sand			
Sample Matrix			Sand			
Moisture Content (%)			14			
Stone content (%)			16			
			Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
Solid Analysis						
Total Organic Carbon	%	MCERTS	2.9	3.0	5.0	6.0
Loss on Ignition	%	UKAS	4.5	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	u	661	500	-	-
PAH	mg/kg	u	26	100	-	-
pH	units	MCERTS	8.3	-	> 6	-
Eluate Analysis						
Arsenic	mg/kg	u	< 0.03	0.50	2	25
Barium	mg/kg	u	0.09	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.01	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.09	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.05	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.05	4	50	200
Chloride	mg/kg	u	4	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	570	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1100	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	30.0	500	800	1000

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Certificate Of Analysis - WAC Suite

NC Reference			214744			
Client Sample ID			DN4186/17			
Client Sample Location			Stockpile			
Client Sample Type			-			
Client Sample Number			-			
Depth - Top (m)			-			
Depth - Bottom (m)			-			
Date of Sampling			-			
Time of Sampling			-			
Sample Description			Dark greyish brown slightly clayey gravelly silty sand with rare organic matter			
Sample Matrix			Sand			
Moisture Content (%)			11			
Stone content (%)			33			
			Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
Solid Analysis						
Total Organic Carbon	%	MCERTS	3.0	3.0	5.0	6.0
Loss on Ignition	%	UKAS	4.4	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_10_Total]	mg/kg	u	222	500	-	-
PAH	mg/kg	u	77	100	-	-
pH	units	MCERTS	8.3	-	> 6	-
Eluate Analysis						
Arsenic	mg/kg	u	0.03	0.50	2	25
Barium	mg/kg	u	0.10	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.01	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.07	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.05	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.05	4	50	200
Chloride	mg/kg	u	5	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	440	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1900	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	34.0	500	800	1000

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Certificate Of Analysis - WAC Suite

NC Reference			214745			
Client Sample ID			DN4186/18			
Client Sample Location			Stockpile			
Client Sample Type			-			
Client Sample Number			-			
Depth - Top (m)			-			
Depth - Bottom (m)			-			
Date of Sampling			-			
Time of Sampling			-			
Sample Description			Dark greyish brown slightly clayey gravelly silty sand			
Sample Matrix			Sand			
Moisture Content (%)			14			
Stone content (%)			22			
			Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
Solid Analysis						
Total Organic Carbon	%	MCERTS	2.8	3.0	5.0	6.0
Loss on Ignition	%	UKAS	4.4	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH_1D_Total]	mg/kg	u	353	500	-	-
PAH	mg/kg	u	23	100	-	-
pH	units	MCERTS	8.0	-	> 6	-
Eluate Analysis						
Arsenic	mg/kg	u	< 0.03	0.50	2	25
Barium	mg/kg	u	0.10	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.01	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	0.08	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.05	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.05	4	50	200
Chloride	mg/kg	u	4	800	15000	25000
Fluoride	mg/kg	u	4	10	150	500
Sulphate (as SO ₄)	mg/kg	u	450	1000	20000	50000
Total Dissolved Solids	mg/kg	u	1100	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	35.0	500	800	1000

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Sample Descriptions

NC Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
214742	DN4186/15	Stockpile	-	-	Dark greyish brown slightly clayey gravelly silty sand with rare brick fragments	12	22	53
214743	DN4186/16	Stockpile	-	-	Dark greyish brown slightly clayey gravelly silty sand	14	16	53
214744	DN4186/17	Stockpile	-	-	Dark greyish brown slightly clayey gravelly silty sand with rare organic matter	11	33	52
214745	DN4186/18	Stockpile	-	-	Dark greyish brown slightly clayey gravelly silty sand	14	22	52

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Sample Comments

NC Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
214742	DN4186/15	Stockpile	-	-	VOC/BTEX - Sample taken from container with head space.
214743	DN4186/16	Stockpile	-	-	VOC/BTEX - Sample taken from container with head space.
214744	DN4186/17	Stockpile	-	-	VOC/BTEX - Sample taken from container with head space.
214745	DN4186/18	Stockpile	-	-	VOC/BTEX - Sample taken from container with head space.

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
BTEXS	MS - CL - VOC and MBTEX	As received	Passing 10mm test sieve	Determination of BTEX in soils via Headspace-GC-MS
PCB7S	MS - CL - PCB Soils	As received	Passing 10mm test sieve	Determination of PCB's (7 congeners) in soils via GC-MS
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
WACTOCS	MS - CL - TOC Eltra (WAC)	Air dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soil as part of a WAC test
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WACSKALAR	MS - CL - Phenols by Skalar (WAC)	As received	BSEN:12457 Leaching	Determination of Total Phenols within leachate as part of a WAC test using a Skalar Segmented flow analyser
WSBORONS	MS-CL- WS Boron	Air dried	Passing 10mm test sieve	Determination of Water soluble Boron in soils via ICP
WACDOC	MS - CL - DOC (WAC)	As received	BSEN:12457 Leaching	Determination of dissolved organic carbon in a leachate as part of a WAC test
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
WACMETALS	MS - CL - ICP -Metals in Waters (WAC)	As received	BSEN:12457 Leaching	Determination of metals in a leachate as part of a WAC test via ICP
ICPMETL	MS - CL - ICP -Metals in Waters	As received	BSEN:12457 Leaching	Determination of metals in leachates via ICP
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Determination of metals in soils via ICP
WACPHS	MS - CL - pH in Soils (WAC)	As received	BSEN:12457 Leaching	Determination of pH in soils as part of a WAC test via pH probe
WACANIONS	MS - CL - Anions by Aquakem (WAC)	As received	BSEN:12457 Leaching	Determination of sulphate, chloride and fluoride in a leachate as part of a WAC test using a Aquakem analyser
TDSL	MS - CL - TDS (Leachate)	As received	BSEN:12457 Leaching	Determination of total dissolved solids in leachates
ASBQ	MS - AS - Asbestos Quantification	-	-	Documented in-house method MS-AS-Asbestos Quantification using polarising light microscopy, gravimetric analysis, fibre counting and sizing through phase contrast optical microscopy (Stages 2 + 3 Gravimetric, Stage 4 fibre count + sizing)
ASB	MS - AS - Asbestos	-	-	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
ENLEACHP	BS EN 12457-2	As Received	-	Leaching in accordance with BSEN 12457-2 (10:1 Ratio)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
1377LOI	BS1377 Loi	Oven dried	Passing 2mm test sieve	Testing was in accordance with BS 1377: Part 3: 2018 + A1 :2021 Clause 6. Determination of the mass loss on ignition. Some information required by BS1377: 2016: Part 1 has not been reported. This information is available on request.

L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Date of sampling to receipt insufficient to allow analysis to be completed without deviation, Please note this is only a deviation if 'X' is also recorded against the sample

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

NC Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
214742	DN4186/15	Stockpile	-	-		A
214743	DN4186/16	Stockpile	-	-		A
214744	DN4186/17	Stockpile	-	-		A
214745	DN4186/18	Stockpile	-	-		A

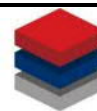
L22/00656/CTS - 22-23873

Project Reference - 21593 First Street Manchester

HWOL TPH Acronym Index

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
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathmatically subtracted
#2	EH_Total but with fatty acids mathmatically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumlative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Laboratory Report	DNR/97942-97945	Contract Sample No	DN4186/1-4
Report Date	23 March 2022	Clients Reference	DN4186/1-4
MPB Structures Limited 14 Crucible Road Corby Northamptonshire NN17 5TS First Street, Manchester		Material Description	Sand
		Source	Not Stated
		Supplier	Not Stated
		Date Sampled	Not Stated
		Date Received	04/03/2022
		Date Completed	22/03/2022
		Sample Location	1/2/3/4



**Construction Testing
Solutions**

Bootham Lane Industrial Estate
Dunscroft | Doncaster | DN7 4JU
T | (01302) 352652
E | enquiries@constructiontesting.co.uk
W | www.constructiontesting.co.uk

WAC Analysis

Please find enclosed test certificate (L22/01290/CTS-22-24739) supplied by our approved Sub-contract Laboratory, Nicholls Colton

Authorised Signatory



M O'Leary - Laboratory Manager



Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

Construction Testing Solutions
Bootham Lane Industrial Estate
Dunscroft
Doncaster
DN7 4JU

Analytical Test Report: L22/01290/CTS - 22-24739

Your Project Reference: 21902, First Street

Your Order Number: 21902 Samples Received / Instructed: 08/03/2022 / 08/03/2022

Report Issue Number: 1 Sample Tested: 08/03 to 22/03/2022

Samples Analysed: 4 soil samples Report issued: 22/03/2022

Signed

James Gane
Data Manager
Nicholls Colton Group

Notes:

General

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report unless otherwise requested.

Moisture Content was determined in accordance with NC method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with NC method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Samples were supplied by customer, results apply to the samples as received.

WAC Testing

Samples were leached in accordance with BS EN 12457-3: 2002.

Eluate Results are reported as the cumulative release at L/S 10 from eluates of L/S 2 and L/S 8. These results have been calculated in accordance with BS EN 12457-3:2002.

Comparative values are taken from the Council Decision Annex - CRITERIA AND PROCEDURES FOR THE ACCEPTANCE OF WASTE AT LANDFILLS, (2003/33/EC).

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Date of Issue 10/12/2020

Owned by Emily Blissott - Customer Services Supervisor

Authorised by James Gane - Commercial Manager

L:\DATA\REPORTS\CTS777\L22-01290-CTS - 22-24739.XLSM\TPH Codes



Nicholls Colton Group
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Leicester
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L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

Certificate Of Analysis - WAC Suite

NC Reference	222289
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Client Sample ID	DN4186/1
Client Sample Location	-
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	-
Time of Sampling	-
Sample Description	Brown gravelly sand
Sample Matrix	Sand
Moisture Content (%)	5.8
Stone content (%)	21

	Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	1.4	3.0	5.0	6.0
Loss on Ignition	%	UKAS	0.9	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH ₁ ,1D ₁ Total]	mg/kg	u	30	500	-	-
PAH	mg/kg	u	3.0	100	-	-
pH	units	MCERTS	7.9	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	< 0.03	0.50	2	25
Barium	mg/kg	u	< 0.05	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.10	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	< 0.03	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	3	800	15000	25000
Fluoride	mg/kg	u	1	10	150	500
Sulphate (as SO ₄)	mg/kg	u	220	1000	20000	50000
Total Dissolved Solids	mg/kg	u	250	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	24.0	500	800	1000



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L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

Certificate Of Analysis - WAC Suite

NC Reference	222290
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Client Sample ID	DN4186/2
Client Sample Location	-
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	-
Time of Sampling	-
Sample Description	Brown gravelly sand
Sample Matrix	Sand
Moisture Content (%)	9.9
Stone content (%)	25

	Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	1.4	3.0	5.0	6.0
Loss on Ignition	%	UKAS	1.2	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₁₀) [EH ₁ 1D ₁ Total]	mg/kg	u	187	500	-	-
PAH	mg/kg	u	3.4	100	-	-
pH	units	MCERTS	8.2	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	< 0.03	0.50	2	25
Barium	mg/kg	u	< 0.05	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.10	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	< 0.03	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	1	800	15000	25000
Fluoride	mg/kg	u	1	10	150	500
Sulphate (as SO ₄)	mg/kg	u	< 100	1000	20000	50000
Total Dissolved Solids	mg/kg	u	300	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	< 20	500	800	1000



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L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

Certificate Of Analysis - WAC Suite

NC Reference	222291
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Client Sample ID	DN4186/3
Client Sample Location	-
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	-
Time of Sampling	-
Sample Description	Brown gravelly sand
Sample Matrix	Sand
Moisture Content (%)	8.5
Stone content (%)	30

	Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	1.4	3.0	5.0	6.0
Loss on Ignition	%	UKAS	1.5	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH ₁ 1D ₁ Total]	mg/kg	u	56	500	-	-
PAH	mg/kg	u	2.8	100	-	-
pH	units	MCERTS	7.9	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	< 0.03	0.50	2	25
Barium	mg/kg	u	0.07	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.10	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	< 0.03	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	1	800	15000	25000
Fluoride	mg/kg	u	1	10	150	500
Sulphate (as SO ₄)	mg/kg	u	100	1000	20000	50000
Total Dissolved Solids	mg/kg	u	340	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	21.0	500	800	1000



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L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

Certificate Of Analysis - WAC Suite

NC Reference	222292
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Client Sample ID	DN4186/4
Client Sample Location	-
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	-
Depth - Bottom (m)	-
Date of Sampling	-
Time of Sampling	-
Sample Description	Brown gravelly sand
Sample Matrix	Sand
Moisture Content (%)	8.8
Stone content (%)	28

	Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
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Solid Analysis

Total Organic Carbon	%	MCERTS	< 1.0	3.0	5.0	6.0
Loss on Ignition	%	UKAS	1.5	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.30	6.00	-	-
PCB's (7 Congeners)	mg/kg	u	< 0.028	1.00	-	-
Mineral Oil (>C ₁₀ to C ₄₀) [EH ₁ 1D ₁ Total]	mg/kg	u	41	500	-	-
PAH	mg/kg	u	3.7	100	-	-
pH	units	MCERTS	8.0	-	> 6	-

Eluate Analysis

Arsenic	mg/kg	u	< 0.03	0.50	2	25
Barium	mg/kg	u	< 0.05	20	100	300
Cadmium	mg/kg	u	< 0.03	0.04	1	5
Chromium (total)	mg/kg	u	< 0.03	0.5	10	70
Copper	mg/kg	u	< 0.10	2.0	50	100
Mercury	mg/kg	u	< 0.01	0.01	0.2	2
Molybdenum	mg/kg	u	< 0.03	0.5	10.0	30
Nickel	mg/kg	u	< 0.03	0.4	10.0	40
Lead	mg/kg	u	< 0.10	0.5	10.0	50
Antimony	mg/kg	u	< 0.03	0.06	0.7	5
Selenium	mg/kg	u	< 0.01	0.1	0.5	7
Zinc	mg/kg	u	< 0.10	4	50	200
Chloride	mg/kg	u	5	800	15000	25000
Fluoride	mg/kg	u	1	10	150	500
Sulphate (as SO ₄)	mg/kg	u	< 100	1000	20000	50000
Total Dissolved Solids	mg/kg	u	260	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	u	21.0	500	800	1000



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L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

Sample Descriptions

NC Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
222289	DN4186/1	-	-	-	Brown gravelly sand	5.8	21	59
222290	DN4186/2	-	-	-	Brown gravelly sand	9.9	25	58
222291	DN4186/3	-	-	-	Brown gravelly sand	8.5	30	41
222292	DN4186/4	-	-	-	Brown gravelly sand	8.8	28	37



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Project Reference - 21902, First Street

Sample Comments

NC Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
222289	DN4186/1	-	-	-	VOC/BTEX - Sample taken from container with head space.
222290	DN4186/2	-	-	-	VOC/BTEX - Sample taken from container with head space.
222291	DN4186/3	-	-	-	VOC/BTEX - Sample taken from container with head space.
222292	DN4186/4	-	-	-	VOC/BTEX - Sample taken from container with head space.



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L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
BTEXS	MS - CL - VOC and MBTEX	As received	Passing 10mm test sieve	Determination of BTEX in soils via Headspace-GC-MS
PCB7S	MS - CL - PCB Soils	As received	Passing 10mm test sieve	Determination of PCB's (7 congeners) in soils via GC-MS
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
WACTOCS	MS - CL - TOC Eltra (WAC)	Air dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soil as part of a WAC test
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
WACSKALAR	MS - CL - Phenols by Skalar (WAC)	As received	BSEN:12457 Leaching	Determination of Total Phenols within leachate as part of a WAC test using a Skalar Segmented flow analyser
WACDOC	MS - CL - DOC (WAC)	As received	BSEN:12457 Leaching	Determination of dissolved organic carbon in a leachate as part of a WAC test
WACMETALS	MS - CL - ICP - Metals in Waters (WAC)	As received	BSEN:12457 Leaching	Determination of metals in a leachate as part of a WAC test via ICP
WACPHS	MS - CL - pH in Soils (WAC)	As received	BSEN:12457 Leaching	Determination of pH in soils as part of a WAC test via pH probe
WACANIONS	MS - CL - Anions by Aquakem (WAC)	As received	BSEN:12457 Leaching	Determination of sulphate, chloride and fluoride in a leachate as part of a WAC test using a Aquakem analyser
TDSL	MS - CL - TDS (Leachate)	As received	BSEN:12457 Leaching	Determination of total dissolved solids in leachates
ENLEACHP2	BS EN 12457-3	As Received	-	Leaching in accordance with BSEN 12457-3
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
1377LOI	BS1377 LoI	Oven dried	Passing 2mm test sieve	Testing was in accordance with BS 1377: Part 3: 2018 + A1 :2021 Clause 6. Determination of the mass loss on ignition. Some information required by BS1377: 2016: Part 1 has not been reported. This information is available on request.

L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Date of sampling to receipt insufficient to allow analysis to be completed without deviation, Please note this is only a deviation if 'X' is also recorded against the sample

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

NC Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
222289	DN4186/1	-	-	-	MS - CL - PAH (As Received)	AT
222289	DN4186/1	-	-	-	MS - CL - PCB Soils	AT
222289	DN4186/1	-	-	-	MS - CL - TOC Eltra (WAC)	AT
222289	DN4186/1	-	-	-	MS - CL - TPH (GC-FID)	AT
222289	DN4186/1	-	-	-	MS - CL - VOC and MBTEX	AT
222289	DN4186/1	-	-	-	MS - CL - pH in Soils (WAC)	AT
222290	DN4186/2	-	-	-	MS - CL - PAH (As Received)	AT
222290	DN4186/2	-	-	-	MS - CL - PCB Soils	AT
222290	DN4186/2	-	-	-	MS - CL - TOC Eltra (WAC)	AT
222290	DN4186/2	-	-	-	MS - CL - TPH (GC-FID)	AT
222290	DN4186/2	-	-	-	MS - CL - VOC and MBTEX	AT
222290	DN4186/2	-	-	-	MS - CL - pH in Soils (WAC)	AT
222291	DN4186/3	-	-	-	MS - CL - PAH (As Received)	AT
222291	DN4186/3	-	-	-	MS - CL - PCB Soils	AT
222291	DN4186/3	-	-	-	MS - CL - TOC Eltra (WAC)	AT
222291	DN4186/3	-	-	-	MS - CL - TPH (GC-FID)	AT
222291	DN4186/3	-	-	-	MS - CL - VOC and MBTEX	AT
222291	DN4186/3	-	-	-	MS - CL - pH in Soils (WAC)	AT
222292	DN4186/4	-	-	-	MS - CL - PAH (As Received)	AT
222292	DN4186/4	-	-	-	MS - CL - PCB Soils	AT
222292	DN4186/4	-	-	-	MS - CL - TOC Eltra (WAC)	AT
222292	DN4186/4	-	-	-	MS - CL - TPH (GC-FID)	AT
222292	DN4186/4	-	-	-	MS - CL - VOC and MBTEX	AT
222292	DN4186/4	-	-	-	MS - CL - pH in Soils (WAC)	AT



Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

L22/01290/CTS - 22-24739

Project Reference - 21902, First Street

HWOL TPH Acronym Index

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
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathmatically subtracted
#2	EH_Total but with fatty acids mathmatically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



A P P E N D I X L

Land Appraisal | Environmental | Geotechnical | Design | Mining | Inspections

GRM Development Solutions Limited, Laurus House, First Avenue, Centrum 100, Burton upon Trent, Staffs DE14 2WH
www.grm-uk.com | info@grm-uk.com | 01283 551249 Company No. 3099018 (England), VAT Reg. No. 658 1005 48

DUTY OF CARE-CONTROLLED WASTE TRANSFER NOTE

SECTION A - DESCRIPTION OF WASTE

- PLEASE DESCRIBE THE WASTE BEING TRANSFERRED SOIL + STONES.
- EUROPEAN WASTE CODE: EWC 17.05.04.
- WHAT IS THE QUANTITY OF WASTE (M³ / TONNES) 500M³.

SECTION B - PRODUCER OF THE WASTE

- FULL NAME (BLOCK CAPITALS) MPB STRUCTURES LTD.
- ADDRESS 14 CRUCIBLE ROAD, CORBY,
NORTHAMPTONSHIRE, NN17 5TS SIC CODE 41.201.

By signing in SECTION E below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of The Waste (England and Wales) Regulations 2011 ☒ YES

SECTION C - CARRIER OF THE WASTE

FULL NAME: J O'SHEA & SONS LTD. ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL

REGISTERED WASTE CARRIER NUMBER: CBDU90839 - ISSUED BY ENVIRONMENT AGENCY

SECTION D - DISPOSER OF THE WASTE

- COMPANY NAME (BLOCK CAPITALS) T & N.
- COMPANY ADDRESS MOOR VALLEY, MOSBOROUGH,
SHEFFIELD, S20 5BB.
- WML / PERMIT NUMBER WEX293494 ISSUED BY E.A.

☐ J O'SHEA & SONS LTD, ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL
WASTE MANAGEMENT LICENCE NUMBER: EAWML50093

SECTION E - FIRST TRANSFER (Producer to Carrier)

- SITE ADDRESS FIRST STREET SOUTH, CHESTER ST, M1CR, M15 6JH.
- DATE OF TRANSFER 12.1.22 3) TIME(S) OF TRANSFER (FOR MULTIPLE TRANSFERS, GIVE BETWEEN DATES) 12.1.22 - 12.3.22.
- PRODUCERS REPRESENTATIVE
NAME (PRINT) C. TURNER
SIGNATURE [Signature]
- CARRIERS REPRESENTATIVE
NAME (PRINT) PAUL O'SHEA
SIGNATURE [Signature]

SECTION F - SECOND TRANSFER (Carrier to Disposer)

GR10 REF SJ 81343 90062

- DISPOSAL SITE WYTHENSHAW PARK, M23 0AB.
☐ J O'SHEA & SONS LTD, ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL
- DATE OF TRANSFER 12.1.22 3) TIME(S) OF TRANSFER (FOR MULTIPLE TRANSFERS, GIVE BETWEEN DATES) 12.1.22 - 12.3.22.
- CARRIERS REPRESENTATIVE
NAME (PRINT) PAUL O'SHEA
SIGNATURE [Signature]
- DISPOSERS REPRESENTATIVE
NAME (PRINT) Tim Elmore-Martin
SIGNATURE [Signature]



Transfer Note Number

3224

DUTY OF CARE-CONTROLLED WASTE TRANSFER NOTE**SECTION A - DESCRIPTION OF WASTE**

- 1) PLEASE DESCRIBE THE WASTE BEING TRANSFERRED MATERIAL FROM PILES 01, 02, & 03 27/01/22
2) EUROPEAN WASTE CODE: EWC 17.05.04
3) WHAT IS THE QUANTITY OF WASTE (M³ / TONNES) 210 m³

SECTION B - PRODUCER OF THE WASTE

- 1) FULL NAME (BLOCK CAPITALS) MPB STRUCTURES LTD.
2) ADDRESS 14 CRUCIBLE ROAD, CORBY,
NOATHAMPTONSHIRE, NN17 5TS SIC CODE 41.201

By signing in SECTION E below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of The Waste (England and Wales) Regulations 2011 ☒ YES

SECTION C - CARRIER OF THE WASTE

FULL NAME: J O'SHEA & SONS LTD. ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL
REGISTERED WASTE CARRIER NUMBER: CBDU90839 - ISSUED BY ENVIRONMENT AGENCY

SECTION D - DISPOSER OF THE WASTE

- 1) COMPANY NAME (BLOCK CAPITALS) GROUND MATERIAL SOLUTIONS.
2) COMPANY ADDRESS HARWOOD QUARRY, BROOK FOLD LANE,
BOLTON. GTR MANCHESTER, BL2 4LT.
WML / PERMIT NUMBER BV87411L ISSUED BY EA
☐ J O'SHEA & SONS LTD. ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL
WASTE MANAGEMENT LICENCE NUMBER: EAWML50093

SECTION E - FIRST TRANSFER (Producer to Carrier)

- 1) SITE ADDRESS FIRST ST SOUTH, CHESTER ST, MICK, M15 6TH.
2) DATE OF TRANSFER 27.01.22 3) TIME(S) OF TRANSFER (FOR MULTIPLE TRANSFERS.
GIVE BETWEEN DATES) 27.01.22 - 31.03.22
4) PRODUCERS REPRESENTATIVE MPB. 5) CARRIERS REPRESENTATIVE
NAME (PRINT) CHRIS TIGER NAME (PRINT) PAUL O'SHEA.
SIGNATURE [Signature] SIGNATURE [Signature]

SECTION F - SECOND TRANSFER (Carrier to Disposer)

- 1) DISPOSAL SITE HARWOOD QUARRY, BOLTON, BL2 4LT.
☐ J O'SHEA & SONS LTD. ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL
2) DATE OF TRANSFER 27.01.22 3) TIME(S) OF TRANSFER (FOR MULTIPLE TRANSFERS.
GIVE BETWEEN DATES) 27.01.22 - 31.03.22
4) CARRIERS REPRESENTATIVE 5) DISPOSERS REPRESENTATIVE
NAME (PRINT) PAUL O'SHEA NAME (PRINT) [Signature]
SIGNATURE [Signature] SIGNATURE [Signature]

DUTY OF CARE-CONTROLLED WASTE TRANSFER NOTE

SECTION A - DESCRIPTION OF WASTE

- 1) PLEASE DESCRIBE THE WASTE BEING TRANSFERRED NON-HAZARDOUS SOIL + STONES.
- 2) EUROPEAN WASTE CODE: EWC 17-05-04.
- 3) WHAT IS THE QUANTITY OF WASTE (M³ / TONNES) 9,000 M³.

SECTION B - PRODUCER OF THE WASTE

- 1) FULL NAME (BLOCK CAPITALS) MPB STRUCTURES LTD.
- 2) ADDRESS 14 CRUCIBLE ROAD, CORBY,
NORTHAMPTONSHIRE, NN17 5TS. SIC CODE 41.201.

By signing in SECTION E below I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of The Waste (England and Wales) Regulations 2011 ☒ YES

SECTION C - CARRIER OF THE WASTE

FULL NAME: J O'SHEA & SONS LTD. ORCHARD STREET. PENDLETON. SALFORD, MANCHESTER M6 6FL
REGISTERED WASTE CARRIER NUMBER: CBDU90839 - ISSUED BY ENVIRONMENT AGENCY

SECTION D - DISPOSER OF THE WASTE

- 1) COMPANY NAME (BLOCK CAPITALS)
- 2) COMPANY ADDRESS

WML / PERMIT NUMBER ISSUED BY

☒ J O'SHEA & SONS LTD, ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL
WASTE MANAGEMENT LICENCE NUMBER: EAWML50093

SECTION E - FIRST TRANSFER (Producer to Carrier)

- 1) SITE ADDRESS FIRST STREET SOUTH, CHESTER ST, M66, M15 6JH.
- 2) DATE OF TRANSFER 12.01.22. 3) TIME(S) OF TRANSFER (FOR MULTIPLE TRANSFERS, GIVE BETWEEN DATES) 12.01.22 - 12.06.22.
- 4) PRODUCERS REPRESENTATIVE MPB LTD. 5) CARRIERS REPRESENTATIVE
NAME (PRINT) Chris Turner NAME (PRINT) PAUL O'SHEA
SIGNATURE [Signature] SIGNATURE [Signature]

SECTION F - SECOND TRANSFER (Carrier to Disposer)

- 1) DISPOSAL SITE
☒ J O'SHEA & SONS LTD, ORCHARD STREET, PENDLETON, SALFORD, MANCHESTER M6 6FL
- 2) DATE OF TRANSFER 12.01.22. 3) TIME(S) OF TRANSFER (FOR MULTIPLE TRANSFERS, GIVE BETWEEN DATES) 12.01.22 - 12.06.22.
- 4) CARRIERS REPRESENTATIVE 5) DISPOSERS REPRESENTATIVE
NAME (PRINT) PAUL O'SHEA NAME (PRINT) J. O'SHEA
SIGNATURE [Signature] SIGNATURE [Signature]



Customer: MPB
Address: First St
Manchester
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: 9W3N No. of Loads: 1
Material: Non Haz
Additional info:
Date: 12-1-22

Nº 514438

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800



Customer: MPB CONSTRUCTION
Address: First St
MCR
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: M/A No. of Loads: 1
Material: Non Haz
Additional info:
Date: 12/1/22

Nº 515326

Signed: [Signature]

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800



Customer: MPB
Address: First St
M/C
EWC: 17.05.04 ☒ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MUGUZY No. of Loads: 1
Material: Non Haz
Additional info:
Date: 12/1/22

Nº 513356

Signed: [Signature]

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800



Customer: MPB
Address: First St
Manchester
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MUGUZY No. of Loads: 1
Material: Non Haz
Additional info:
Date: 12-1-22

Nº 514437

Signed: [Signature]

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800



Customer: MPB
Address: First St
Manchester
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: 9W3N No. of Loads: 1
Material: Non Haz
Additional info:
Date: 12-1-22

Nº 514439

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800



Customer: MPB CONSTRUCTION
Address: First St
MCR
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MUGUZY No. of Loads: 1
Material: M/A
Additional info: Non - Haz
Date: 12/1/22

Nº 515327

Signed: [Signature]

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800



Customer: M.P.B
Address: First St
MCR
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MUGY MHZ No. of Loads: one
Material: Non Haz
Additional info:
Date: 12/1/22

Nº 515080

Signed: [Signature]

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800



Customer: MPB
Address: First St
M/C
EWC: 17.05.04 ☒ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MUGUZY No. of Loads: 1
Material: Non Haz
Additional info:
Date: 12/1/22

Nº 513357

Signed: [Signature]

Carriers Licence: CBDU 90839

Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MV18JCT No. of Loads: 1
Material: NON HAZ MUCK & WASH

Date: 13/1/22

Nº 513366

Signed: [Signature]
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MV18JCT No. of Loads: 1
Material: NON HAZ MUCK & WASH

Date: 13/1/22

Nº 515134

Signed: [Signature]
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☒ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MV18JCT No. of Loads: 1
Material: NON HAZ

Date: 13/1/22

Nº 513360

Signed: [Signature]
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MVB007 No. of Loads: 1
Material: MV

Date: 13/1/22

Nº 515132

Signed: JATINDER PAL SINGH
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MV18JCT No. of Loads: 1
Material: NON HAZ

Date: 13/1/22

Nº 513362

Signed: [Signature]
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☒ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MV18JCT No. of Loads: 1
Material: NON HAZ

Date: 13/1/22

Nº 513358

Signed: [Signature]
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MV18JCT No. of Loads: 1
Material: NON HAZ MUCK & WASH

Date: 13/1/22

Nº 515131

Signed: [Signature]
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

JOSHEA & SONS
WASTE MANAGEMENT

Customer: MPB
Address: FIRST ST
M/CN
EWC: 17.05.04 ☐ 17.01.07 ☐
WML50093 ☐
Grab: ☐ Vehicle Size: 8W ☒
Vehicle Reg: MVB007 No. of Loads: ONE
Material: NON HAZ

Date: 13/1/22

Nº 515087

Signed: [Signature]
Carriers Licence: CBDU 90839
Excavation & Recycling 0161 925 9800

Maher**CN****262675**

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**

Customer:	MPB	Date:	6/5/22
Loaded at:	MCR	1st ST	
Delivered to:	ADL	ASHTON OLD ROAD.	
Driver:	MIKE M	Veh. Reg.:	TVZ
Tick ☒	1 x 8 wh. load: Off Site	Material	MCK
Tick ☐	1 x 8 wh. load: Delivered	Material	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature			

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE

Form MAH/OD/16 V.06 04/19

Maher**CN****292691**

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**

Customer:	MD3	Date:	6/5/22
Loaded at:	m/c	1st ST	
Delivered to:	ADL	57 SAYORN YARD	
Driver:	JOHNS	Veh. Reg.:	W23 CUP
Tick ☐	1 x 8 wh. load: Off Site	Material	CONCRETE
Tick ☐	1 x 8 wh. load: Delivered	Material	
Daywork / Sitework	Hours Worked	Travel Time	Total Hours
Foreman or Agent's Signature			

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE

Form MAH/OD/16 V.06 04/19

Maher**CN 285895****W. MAHER & SONS LTD.**

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**

Customer:

MP3

Date:

6 6 22

Loaded at:

m/c First St

Delivered to:

for Ashman old road

Driver:

Song

Veh. Reg.:

MUZZWUP

Tick



1 x 8 wh. load: Off Site

Material

PA

Tick



1 x 8 wh. load: Delivered

Material

Daywork /
SiteworkHours
WorkedTravel
TimeTotal
HoursForeman or Agent's
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and title to same remain the property of supplier until paid in full.

Maher**CN 285889****W. MAHER & SONS LTD.**

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**

Customer:

MP3

Date:

6 6 22

Loaded at:

m/c First St

Delivered to:

for Ashman old road

Driver:

Song

Veh. Reg.:

MUZZWUP

Tick



1 x 8 wh. load: Off Site

Material

PA

Tick



1 x 8 wh. load: Delivered

Material

Daywork /
SiteworkHours
WorkedTravel
TimeTotal
HoursForeman or Agent's
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE

Form MAH/OD/16 V.06 04/19

Maher

CN 279751

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**

Customer:

MBP

Date:

20.6.21

Loaded at:

M/C FIRST ST

Delivered to:

ASHTON OLD ROAD

Driver:

Rogin

Veh. Reg:

MV21 XSV

Tick



1 x 8 wh. load: Off Site

Material

PA

Tick



1 x 8 wh. load: Delivered

Material

Daywork /
SiteworkHours
WorkedTravel
TimeTotal
HoursForeman or Agent's
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and title to same remain the property of supplier until paid in full.

Maher

CN 264157

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation

CONSIGNMENT NOTE

Customer:

MPB

Date:

28/6/22

Loaded at:

Firs St

Delivered to:

A O E

Driver:

Ash Williams

Veh. Reg.:

Wwo

Tick



1 x 8 wh. load: Off Site

Material

Tick



1 x 8 wh. load: Delivered

Material

PIA

Daywork / Stework	Hours Worked	Travel Time	Total Hours	
Foreman or Agent's Signature				

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.
All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE

Form MAH/OD/16 V.06 04/19

Maher**CN 286761**

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**Customer: **MPB** Date: **31.5.22**Loaded at: **m/c first sk**Delivered to: **A.O.R Ashton old road**Driver: **Vanoy** Veh. Reg.: **BXV**Tick ☒ 1 x 8 wh. load: Off Site
Material
P.ATick ☐ 1 x 8 wh. load: Delivered
Material

Daywork / Sitework	Hours Worked	Travel Time	Total Hours

Foreman or Agent's
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE

Form MAH/OD/16 V.06 04/19

Maher**CN 286760**

W. MAHER & SONS LTD.

Rixton Old Hall, Manchester Road, Rixton, Warrington WA3 6EW

T: 0161 776 2200 E: enquiries@wmaherandsons.com

Bulk Excavation & Disposal • Ground Remediation
Quarried & Recycled Aggregates • Site Preparation**CONSIGNMENT NOTE**Customer: **MPB** Date: **31.5.22**Loaded at: **m/c first sk**Delivered to: **3-1 Salford yard.**Driver: **Vanoy** Veh. Reg.: **BXV**Tick ☒ 1 x 8 wh. load: Off Site
Material
CONCRETETick ☐ 1 x 8 wh. load: Delivered
Material

Daywork / Sitework	Hours Worked	Travel Time	Total Hours

Foreman or Agent's
Signature

CONDITIONS OF SALE: It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note, once signed by the consignee, represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted.

All complaints whether in respect of material or circumstances of delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

All materials and title to same remain the property of supplier until paid in full.

THIS IS NOT A WASTE TRANSFER NOTE

Form MAH/OD/16 V.06 04/19

[illegible]

Maher **CN 26J432**

St. Georges & Wines & L
P.O. Box 107, St. Georges Road, St. Georges, Guyana T810 0781

T: 0181 776 2000 E: enquiries@mahertravellers.com

Book, Exchange & Deposit • **Group Reservation**
Quoted & Requested Availability • **7 Days Freehold**

CONSENTMENT **NOTICE**

Customer: **MPB** Date: **9.222**

Location: **MIC**

Destination: **TIP FB**

Date: **Steve D** Time: **11:00 AM**

☒ 1 x cab, local OR ☐ 1 x cab, international

Price: **10000**

1 x cab, local Cab/Bus

Departure/Arrival: **Hours/Minutes**

Transfer: **Time/Time**

Transfer to Airport: **Time/Time**

Transfer to: **5 miles**

Remarks: **5 miles**

[illegible][illegible]

The Hazardous Waste Regulations 2005: Consignment Note



CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification details

- 1 Consignment note code: **MPB S L T / F S O O I**
- 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
MPB Structures Ltd
First Street
Manchester
Tel 07919 153112
- 3 The waste will be taken to (name, address and postcode):
Whitemoss Landfill Ltd
Whitemoss Road South
Skelmersdale WN8 9TH
- 4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):
N/A

PART B Description of the waste

- 1 The process giving rise to the waste(s) was:
- 2 SIC (2007) for the process giving rise to the waste: **43 .12 / 0**
- 3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)
- | Description of waste | List of wastes (EWC code)(6 digits) | Quantity (kg) | The chemical/biological components in the waste and their concentrations are: | | Physical form (gas, liquid, solid, powder, sludge or mixed) | Hazard code(s) | Container type, number and size |
|--------------------------------|-------------------------------------|---------------|---|----------------------------|---|----------------|---------------------------------|
| | | | Component | Concentration (% or mg/kg) | | | |
| Excavated waste containing TPH | 17 05 03 | 20 Te | Mineral oil | >1000 mg/kg | Solid | HP7 | 8-Wheel Tipper |
| Asbestos at > 0.1% w/w | 17 05 06 | 20 Te | Amosite & Crocidolite | 3.37% w/w | Solid | HP7 | 8-Wheel Tipper |

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
170506	N/A				
	N/A				

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are

1 Carrier name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):
W Maher & Sons Ltd, Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
tel 0161 776 2200, e-mail enquiries@wmaherandsons.com, fax N/A

2 Carrier registration no./reason for exemption:
CBDU 90617

3 Vehicle registration no. (or mode of transport, if not road):

Signature **[Signature]** **MV22 UWR**
 Date **13-4-22** Time **7:00 am**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: **B WHITTIE**
 On behalf of **MPB Structures**
First Street
Manchester

Date **13-4-22** Time **6:00**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
170503	17080K		DOS

1 I received this waste at the address given in A3 on: Date **13-4-2022** Time **09:15**

2 Vehicle registration no. (or mode of transport if not road):

3 Where waste is rejected please provide details:

MV22 UWR

I certify that waste permit/exempt waste operation number:

DP3034YR
 authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Name: **DAVE ROUTLEDGE**
 On behalf of (name, address, postcode, telephone, e-mail, facsimile):
Whitemoss Landfill Ltd.
Whitemoss Road South
Skelmersdale, WN8 9TH
Permit No. DP3034YR

Signature **[Signature]**
 Date **13.04.2022** Time **09:15**

The Hazardous Waste Regulations 2005: Consignment Note



Environment
Agency

CONSIGNOR'S COPY (Delete as appropriate)

PART A Notification details

1 Consignment note code: **MPB S L T / F S O 0 2**

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

MPB Structures Ltd
First Street
Manchester

Tel 07919 153112

3 The waste will be taken to (name, address and postcode):

Whitemoss Landfill Ltd
Whitemoss Road South
Skelmersdale WN8 9TH

4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):
N/A

PART B Description of the waste

1 The process giving rise to the waste(s) was:

2 SIC (2007) for the process giving rise to the waste: **43 .12 / 0**

3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
Excavated waste containing TPH	17 05 03	20 Te	Mineral oil	>1000 mg/kg	Solid	HP7	8-Wheel Tipper
Abestos at > 0.1% w/w	17 05 06	20 Te	Amosite & Crocidolite	3.37% w/w	Solid	HP7	8-Wheel Tipper

The information given below is to be completed for each EWC identified

EWC code	UN identification number(s)	Proper shipping name(s)	UN class(es)	Packing group(s)	Special handling requirements
17 05 03	N/A				
	N/A				

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for subsequent carriers. If schedule of carriers is attached tick here. ☐)

I certify that I today collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements.

Where this note comprises part of a multiple collection the round number and collection number are:

1 Carrier name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

W Maher & Sons Ltd, Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW
tel 0161 776 2200, e-mail enquiries@wmaherandsons.com, fax N/A

2 Carrier registration no./reason for exemption:

CBDU 90617

3 Vehicle registration no. (or mode of transport, if not road): **S BRISTOW**

Signature **MV22 UWR**

Date **13-4-22** Time **930**

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: **B WHITTE**

On behalf of MPB Structures
First Street
Manchester

Date **13-4-22** Time **930**

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
17 05 03	1574		
17 05 06			

1 I received this waste at the address given in A3 on: Date **13-04-2022** Time **1314**

2 Vehicle registration no. (or mode of transport if not road):

3 Where waste is rejected please provide details: **MV22 UWR**

I certify that waste permit/exempt waste operation number:

DP3034YR
authorises the management of the waste described in B at the address given in A3.

Where the consignment forms part of a multiple collection, as identified in Part C, I certify that the total number of consignments forming the collection are:

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Veolia Whitemoss Landfill Ltd
Whitemoss Road South
Skelmersdale, WN8 9TH
Permit No. DP3034YR

Signature

Date **13-04-22** Time **1314**



A P P E N D I X M

Land Appraisal | Environmental | Geotechnical | Design | Mining | Inspections

GRM Development Solutions Limited, Laurus House, First Avenue, Centrum 100, Burton upon Trent, Staffs DE14 2WH
www.grm-uk.com | info@grm-uk.com | 01283 551249 Company No. 3099018 (England), VAT Reg. No. 658 1005 48

Contaminant	Units	Threshold Value for Public Open Space (Residential)
Metals, pH, asbestos		
pH	pH units	N/A
Arsenic	mg/kg	79**
Cadmium	mg/kg	120**
Chromium (III)	mg/kg	1500**
Chromium (VI)	mg/kg	7.7**
Copper	mg/kg	12000**
Nickel	mg/kg	230** (inorganic)
Lead	mg/kg	630***
Mercury	mg/kg	120**
Selenium	mg/kg	1100**
Zinc	mg/kg	81000**
Asbestos	fibres	presence
PAHs		
Acenaphthylene	mg/kg	15000**
Acenaphthene	mg/kg	15000**
Anthracene	mg/kg	74000**
Benzo(a)anthracene	mg/kg	29**
Benzo(a)pyrene	mg/kg	5.7**
Benzo(b)fluoranthene	mg/kg	7.1**
Benzo(ghi)perylene	mg/kg	640**
Benzo(k)fluoranthene	mg/kg	190**
Chrysene	mg/kg	57**
Dibenzo(ah)anthracene	mg/kg	0.57**
Indeno(123cd)pyrene	mg/kg	82**
Fluoranthene	mg/kg	3100**
Fluorene	mg/kg	9900**
Naphthalene	mg/kg	4900**
Phenanthrene	mg/kg	3100**
Pyrene	mg/kg	7400**
TPHs		
Aliphatic C5-C6	mg/kg	570000**
Aliphatic C6-C8	mg/kg	600000**
Aliphatic C8-C10	mg/kg	13000**
Aliphatic C10-C12	mg/kg	13000**
Aliphatic C12-C16	mg/kg	13000**
Aliphatic C16-C35	mg/kg	250000**
Aromatic C5-C7	mg/kg	56000**
Aromatic C7-C8	mg/kg	56000**
Aromatic C8-C10	mg/kg	5000**
Aromatic C10-C12	mg/kg	5000**
Aromatic C12-C16	mg/kg	5100**
Aromatic C16-C21	mg/kg	3800**
Aromatic C21-C35	mg/kg	3800**

N/A – Not applicable / No threshold value exists.

PAHs & TPHs assume 1% Soil Organic Matter (SOM), Metals assume 6% (SOM)

* ATRISK

** LQM/CIEH S4ULs Public Open Space (Residential)

*** Department for Food& Rural Affairs C4SLs Public Open Space 1



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Remediation Validation | Structural Inspections

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