

# **GEO-ENVIRONMENTAL AUDIT**

## **PHASE 1 PRELIMINARY RISK ASSESSMENT**

## **PHASE 2 SITE INVESTIGATIONS**

## **PHASE 3 REMEDIATION STATEMENT**

**PROPOSED RESIDENTIAL DEVELOPMENT  
LAND TO THE EAST OF RUDMAN STREET  
SHAWCLOUGH  
ROCHDALE  
OL12 6LJ**

Author: Daniel Slattery  
Client: Hallmark Developments Ltd.  
Reference: rep-tjba-guardian-rudman st-Phs1\_2\_3Env-100626.docx

| Revision | Date      | Reason                                   |
|----------|-----------|------------------------------------------|
| 0        | June 2026 | Original to address planning conditions. |

T J Booth Associates.

20A Eastgate St,

Rochdale,

Lancs,

OL16 1DH.

Tel: 01706 868288.

Email: office@tjba.co.uk

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## 1. PHASE 1 - PRELIMINARY RISK ASSESSMENT.

### 1.1. Introduction.

T. J. Booth Associates have been appointed by Hallmark Developments Ltd to compile a report on a phase 1 preliminary risk assessment (PRA), phase 2 site investigations, and to provide a phase 3 remediation statement as required by the report findings to land to the east of Rudman Street, Shawclough.

The proposal is for 2No detached residential dwellings. Due to the topography of the local area, the dwellings will be built into the hillside.

Planning permission has been granted under application No. 23/01090/FUL; for the: 'Erection of 2no. detached dwellings including associated landscaping and parking'. Condition No.5 on the application relates to environmental assessment, as follows:

- 5 No development shall commence on site including demolition and any preparatory works until an investigation and risk assessment, in addition to any assessment provided with the planning application, must be completed to assess the nature and extent of any contamination on the site, whether or not it originates on the site. The investigation and risk assessment must be undertaken by competent persons and a written report of the findings must be produced and shall have been first submitted to and approved in writing by the Local Planning Authority before development commences. The report of the findings must include:

- i. a survey of the extent, scale and nature of contamination
- ii. an assessment of the potential risks to:
  - human health,
  - property (existing or proposed) including buildings, crops, livestock, pets, woodland, and service lines and pipes,
  - adjoining land,
  - groundwaters and surface waters,
  - ecological systems,
  - archaeological sites and ancient monuments;
- iii. where unacceptable risks are identified, an appraisal of remedial options and proposal of the preferred option(s)

The development shall thereafter be completed in full accordance with the approved recommendations.

Any identified remedial works necessary must include a verification plan providing details of the data that will be collected in order to demonstrate that the works set out in the remediation strategy are complete and identifying any requirements for longer-term monitoring of pollutant linkages, maintenance and arrangements for contingency action. This verification plan shall be submitted to and approved in writing prior to occupation of the development.

This report provides a desk-based study & intrusive ground investigation based on current UK guidance for environmental investigation within the construction industry. Principal to the assessment is the potential for contamination pollutant linkages via the Land Contamination Risk Management (LCRM) source-pathway-receptor methodology. Assessment of potential pollution linkages is primarily undertaken in strict accordance with BS 5930:2015, BS 10175:2011+A2:2017, CIRIA C665, and BS 8485:2015+A1:2019 et al.

### 1.2. Proposed Development.

The proposal is for the construction of 3No residential dwellings.

The dwelling will comprise off street parking/driveways accessed from the east side of Rudman Street.

Both will have soft landscaped gardens to the rear, and a small area to the front adjacent the driveways.

Due to the local site topography, the dwellings will be built into the hillside, with a higher level rear garden, and the fronts nominally level with Rudman Street.

Refer to Proposed Plan in the Appendix.

### 1.3. Historic Maps.

| DATE     | ON-SITE                                                                                                                           | OFF-SITE/SURROUNDING AREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| c1848    | The Site is part of agricultural land.                                                                                            | <p>There is a road/lane bounding the north side of the site, connecting on to what is now Heights Lane.</p> <p>Much of the local area to the south, east and north of the site comprises agricultural land in the time period.</p> <p>Shaw Clough village is located to the west/northwest.</p> <p>The only industry present is Shaw Clough Mill (cotton) to the northwest with associated mill pond/gasometer to the rear; as well as Lee Mill (cotton) beyond.</p> <p>Shaw Clough Brook is noted flowing through the village from northeast to southwest, and at its closest is approximately 200m north.</p> |
| c1890    | Site now appears to be part of land associated with a 'Zion Chapel' w, the building of which is located to the west just offsite. | <p>Residential development noted adjacent to the southwest boundary.</p> <p>Brickworks noted 125m northeast, with Oxford Mill (cotton) beyond.</p> <p>Shawclough Mill which has increased in size but noted as discussed.</p> <p>Horse Carrs Mil (Silk) now noted 125m to the west with mill reservoir to the rear. Lee Mill noted as a tannery.</p>                                                                                                                                                                                                                                                            |
| c1910    | No change.                                                                                                                        | <p>The former Shawclough Mill now reduced in size and noted as Asbestos &amp; India Rubber Works.</p> <p>Lee Mill reduced in size and noted as a soap &amp; chemical works.</p> <p>The former Horse Carrs Mill is now noted as Shawclough Mill (cotton).</p> <p>Brickworks noted as Roach Brick Works with local quarrying noted.</p>                                                                                                                                                                                                                                                                           |
| c1929-30 | No change.                                                                                                                        | <p>Asbestos India Rubber Works Increases in size to Shawclough Road. Lee Mill disused.</p> <p>Extensive quarrying noted at the now named Rochdale Brick Works, as well as tramways.</p> <p>Some residential development around Falinge to the south as well as Shawclough to the northwest.</p>                                                                                                                                                                                                                                                                                                                 |
| c1959-60 | No change. Site remains vacant, however the adjacent former church is now noted as a warehouse                                    | <p>Asbestos India Rubber Works and Shawclough Mills now just noted as works, reservoirs removed.</p> <p>Lee Mill demolished and replaced with housing.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| c1968-77 | Site vacant.                                                                                                                      | Adjacent warehouse now demolished and replaced with a residential dwelling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| c1978-89 | No change.                                                                                                                        | <p>Shawclough Mill &amp; the Asbestos &amp; India Rubber Works now demolished and replaced with housing.</p> <p>Housing estates to the south east bordering the site.</p> <p>Residential dwelling noted across the lane from the site</p>                                                                                                                                                                                                                                                                                                                                                                       |
| c1992    | No change.                                                                                                                        | Total urban infill of the local area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### 1.4. Present Day Maps.

|                                                        |                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site boundaries, outlines of structures and buildings: | <p>Present day maps show the site to be vacant plot of land to the east side of Rudman Street.</p> <p>The former lane to the front of the site, has essentially become a footpath from the Heights Lane end, but remains accessible by vehicle from Rudman Street.</p> |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                             |                                                                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ground contours, natural drainage features: | Land elevation falls to the west/northwest down Rudman Street.<br>The site is on a plateau, slightly terraced, and falling to the footpath and Rudman Street at lower level. |
| Watercourses:                               | Shawclough Brook nominally 100m distant but predominantly culverted beneath the village.                                                                                     |
| Below ground obstructions:                  | None noted on maps.                                                                                                                                                          |

### 1.5. BGS Geology.

|                      |                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bedrock Geology:     | Pennine Lower Coal Measures Formation: mudstone, siltstone, and Sandstone.<br><br>There is a sandstone formation bounding the site to the south at higher level. |
| Superficial Geology: | Till, Devensian covers the northwest corner.<br><br>The remainder of the site shows as no cover.                                                                 |
| Coal Seams/Faults.   | No coal seams in the immediate local vicinity.                                                                                                                   |

### 1.6. Boreholes Records.

No BGS boreholes within relevant distances.

### 1.7. Landmark Envirocheck.

#### 1.7.1. Agency & Hydrological.

|                                           |                            |
|-------------------------------------------|----------------------------|
| Discharge Consents:                       | Nearest 283m southwest.    |
| Enforcement and Prohibition Notices:      | Nearest is 822m southwest. |
| Pollution Incidents to Controlled Waters: | Nearest is 234m southwest. |

#### 1.7.2. Waste.

|                              |                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| BGS Recorded Landfill Sites: | None with 250m.                                                                                                              |
| Historical Landfill Sites:   | 1 record within 145m east, relating to:<br><br>1 record relating to the former Shawclough Brickworks 145m east (inert fill). |

#### 1.7.3. Hazardous Substances.

|                                                                      |             |
|----------------------------------------------------------------------|-------------|
| Control of Major Accident Hazards Sites (COMAH):                     | None noted. |
| Explosive Sites:                                                     | None noted. |
| Notification of Installations Handling Hazardous Substances (NIHHS): | None noted. |
| Planning Hazardous Substance Consents:                               | None noted. |
| Planning Hazardous Substance Enforcements:                           | None noted. |

#### 1.7.4. Geological.

|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Superficial aquifer: | The majority of the site is classified as unproductive strata, with the northwestern tip noted as Secondary Undifferentiated - assigned where |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|

|                         |                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.            |
| Bedrock aquifer:        | Secondary A - Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifer. |
| Source protection zone: | Not within a Source Protection Zone.                                                                                                                                                                                                                 |
| Radon Potential:        | The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level).<br><br>Basic radon protective measures are necessary in the construction of new dwellings or extensions.                 |

## 1.8. Mining Remediation Authority.

### 1.8.1. Mining activity & geology.

|                                        |                       |
|----------------------------------------|-----------------------|
| Past underground mining:               | Deep coal mined only. |
| Probable unrecorded shallow workings:  | None noted.           |
| Spine roadways at shallow depth:       | None noted.           |
| Mine entries:                          | None noted.           |
| Abandoned mine plan catalogue numbers: | None noted.           |
| Outcrops:                              | None noted.           |

## 1.9. Site Reconnaissance (June 2025).

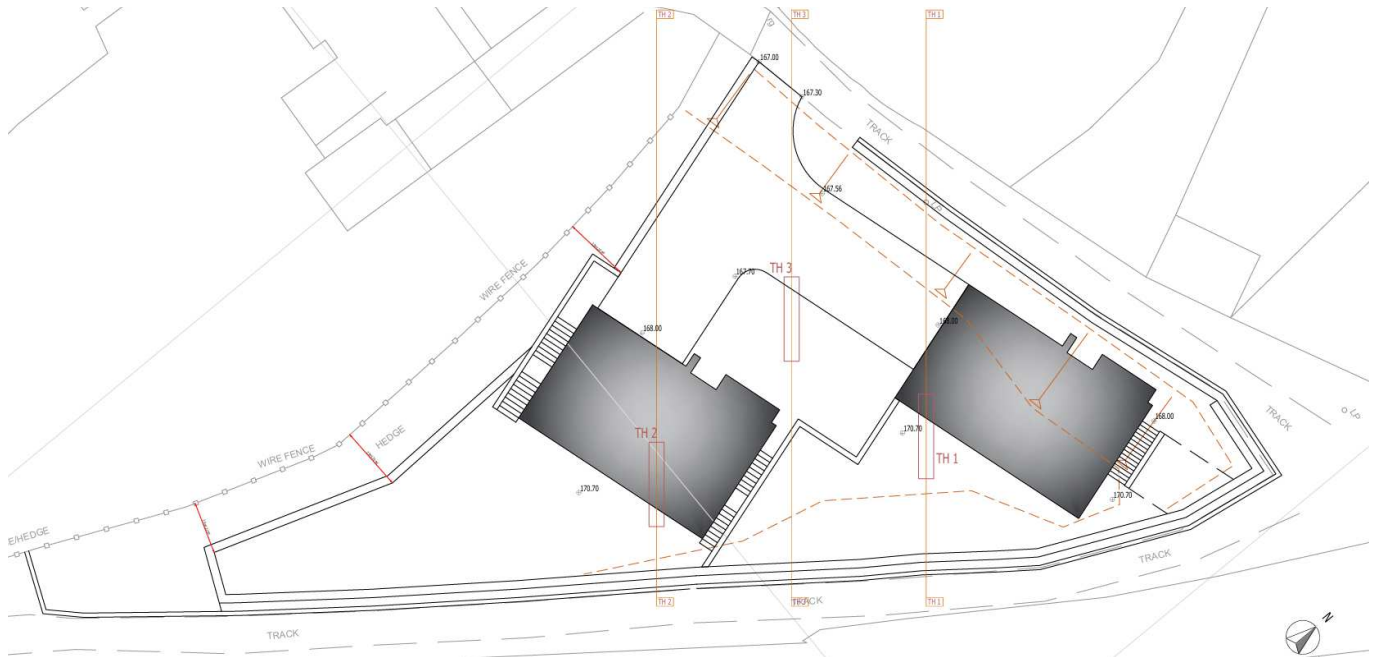
|                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Details of existing structures:                                                | <p>A site reconnaissance/investigation was undertaken in June 2026.</p> <p>The site was a vacant plot of land to the east side of Rudman Street.</p> <p>To the north side of the site was an old footpath, partially vegetated and partly covered with hardcore.</p> <p>The site was at higher level nominally 2-3m above the footpath, and was formed by an irregular nominally triangular plot, tailing off to a sharp point to the south.</p> <p>The southern tip of the site was inaccessible due to being heavily vegetated.</p> <p>The main body of the site had a slope towards No.4 Rudman Street to the west boundary.</p> <p>The site was covered with long grass, with some vegetation to the east/southeast boundary which included Japanese Knotweed.</p> |
| Adjacent properties:                                                           | The site was surrounded by residential dwellings, gardens, and open space associated with the footpath to the north.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Water levels, directions of flow and rates in rivers:                          | None noted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Old mine or quarry workings:                                                   | None noted on site reconnaissance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Obvious/immediate hazards to health/safety:                                    | None noted on site reconnaissance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Areas of discoloured soil, polluted water, vegetation, and significant odours: | <p>None noted.</p> <p>Some small patches of Japanese Knotweed to the east boundary.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 1.10. Site Investigation Records.

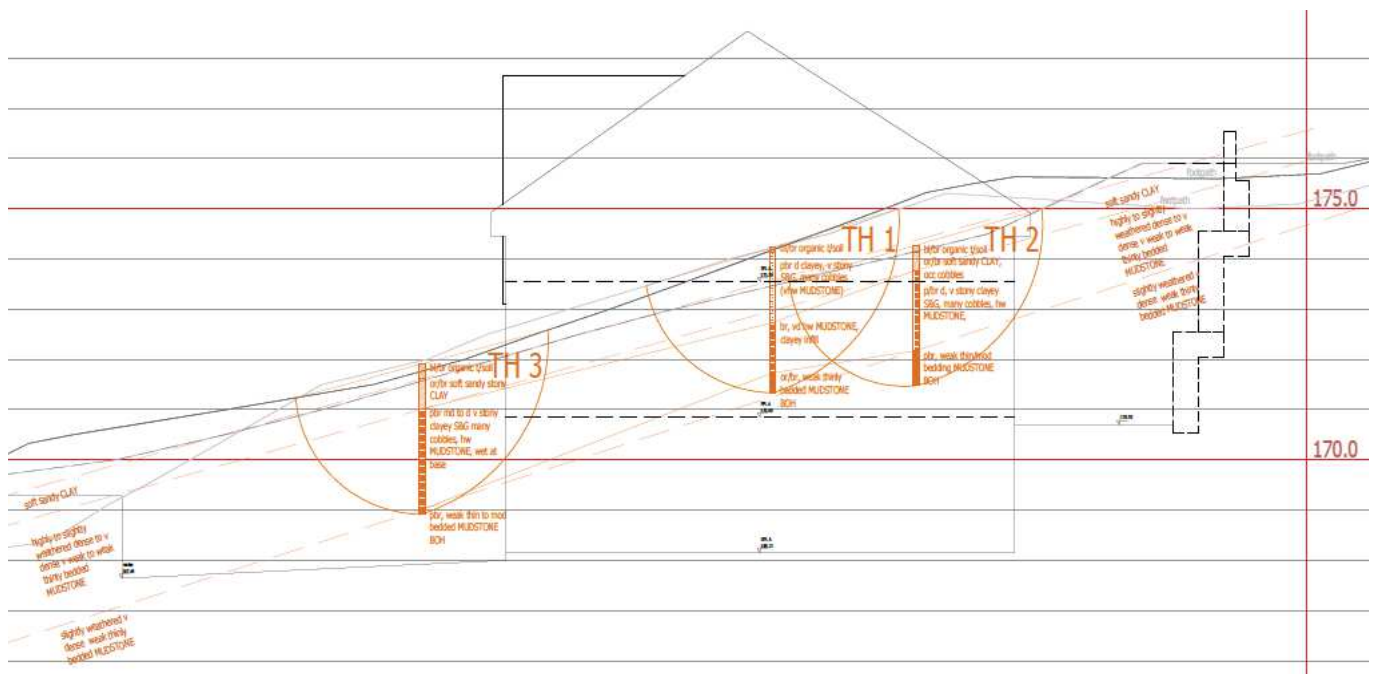
### 1.10.1. TJBA – 10.08.2023.

Site investigations have been previously undertaken by T J Booth Associates.

The investigation comprised 3 No trial holes (THs1-3), to investigate the site geology for geotechnical characteristics and ground stability assessment on the initial application.



The stratigraphy comprised TOPSOIL to nominally 200mm depth, above a soft sandy CLAY upto 0.6m deep overlying a highly becoming slightly weathered dense to very dense, very weak to weak thinly bedded MUDSTONE (shale) approx. 2.0m deep below which was a slightly weathered dense, weak thinly bedded MUDSTONE.



## 1.11. Identification of Source-Pathway-Receptor.

### 1.11.1. Environmental Summary.

The Application Site has remained undeveloped through its recorded history, although it has been adjacent to development including a church, warehouse, and more recently a residential dwelling.

Past site investigations by TJ Booth Associates revealed no made ground across the site, and so risk of contamination is low. However, it would be prudent to test and analyse on site soil to prove its suitability for reuse.

On site reconnaissance, there was no visual or olfactory evidence of contamination noted.

There has been coal mining in the local area, but in deeper seams which should not affect the site.

There are no historic landfill sites in the local area.

Radon is not a risk locally.

### 1.11.2. Potential Contaminant Sources.

| ORIGINAL ASSOCIATED SOURCE | CONTAMINANT/S                      |
|----------------------------|------------------------------------|
| Original soils.            | Metals, PAHs, sulphates, asbestos. |

### 1.11.3. Potential Pathways.

The potential pathways to/from the Development Site include (not an exhaustive list but a summary of the main points):

| PATHWAY                                        | MEDIA                |
|------------------------------------------------|----------------------|
| Soil and dust ingestion                        | Soil and indoor dust |
| Consumption of home-grown fruit and vegetables | Produce              |
| Skin contact (indoors)                         | Indoor dust          |
| Skin contact (outdoors)                        | Soil                 |
| Inhalation of dust (indoors)                   | Air                  |
| Inhalation of dust (outdoors)                  | Air                  |
| Vapours (indoors)                              | Air                  |
| Vapours (outdoors)                             | Air                  |

### 1.11.4. Potential Receptors.

Human: Future residential users & construction phase workforce.

Controlled waters: None noted.

## 1.12. Preliminary Conceptual Model.

| POLLUTANT RISK IDENTIFIER | SOURCE                                                                                                             | CONTAMINANT TYPE                                                                 | PATHWAY                                                                           | RECEPTOR                                                                     | POLLUTION LINKAGE                                                                                                                                                                                                                       | CONSEQUENCE | PROBABILITY     | RISK                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-----------------------|
| PL1                       | General contaminants in upper site soil/made ground, and effects on humans/animals/ecology as a receptor.          | Metals, PAHs, inorganics, organics, asbestos.                                    | Direct ingestion, aerial ingestion, dermal contact, drinking water.<br><br>Crops. | Primarily human - Site construction operatives & future worker & site users. | To be confirmed by site investigations.                                                                                                                                                                                                 | Medium.     | Low likelihood. | Moderate to low risk. |
| PL2                       | Potential for mortars/plasters and associated effects on concrete.                                                 | Sulphates.                                                                       | Contact with underground structures.                                              | Building structures /concrete.                                               | To be confirmed by site investigations.                                                                                                                                                                                                 | Medium.     | Unlikely.       | Very low risk.        |
| PL3                       | Potential historic use of hazardous PSRAS chemicals & effects on PE water pipes.                                   | Hydrocarbons, BTEX & MTBE, VOCs/SVOCs, phenols, cresols and chlorinated phenols. | Contact with water pipes/services.                                                | Water pipes/services & human/pet end users.                                  | No historic use which would suggest chemical contamination.<br><br>No visual or olfactory evidence of contamination on previous site investigations, or site reconnaissance.<br><br>No source and therefore no pollutant linkage.       | Medium.     | Unlikely.       | Low risk.             |
| PL4                       | Hydrocarbon contaminants in upper site soil/made ground, and effects on groundwater or watercourses as a receptor. | Potential hydrocarbons.                                                          | Groundwater via potential leaching and transport of potential contaminants.       | Underlying aquifer or watercourse as a receptor.                             | No tanks or sources noted in the desk study and historic mapping.<br><br>No visual or olfactory evidence of contamination on previous site investigations, or site reconnaissance.<br><br>No source and therefore no pollutant linkage. | Medium.     | Unlikely.       | Low risk.             |
| PL5                       | Geological ground gas from coal seams/workings.                                                                    | CH <sub>4</sub> , CO <sub>2</sub> , other trace gases.                           | Diffusion through soil, substructures, aerial inhalation.                         | Human - future residential occupants. Site Explosion, suffocation.           | No source and therefore no pollutant linkage.                                                                                                                                                                                           | Medium.     | Unlikely.       | Low risk.             |

|     |                                                                                                    |                                                        |                                                           |                                                                    |                                                                                                                                                                                                                                                                                                                                                                        |         |                  |            |
|-----|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|------------|
| PL6 | Geological ground gas, radon sources in Namurian deposits.                                         | Rn.                                                    | Diffusion through soil, substructures, aerial inhalation. | Human residential occupants. - future Site                         | The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level).<br><br>Basic radon protective measures are necessary in the construction of new dwellings or extensions.                                                                                                                                   | Medium. | High likelihood. | High risk. |
| PL7 | Anthropogenic ground gas from historic/present landfill, infilled mill ponds & onsite made ground. | CH <sub>4</sub> , CO <sub>2</sub> , other trace gases. | Diffusion through soil, substructures, aerial inhalation. | Human residential occupants. - future Site Explosion, suffocation. | There is infilled land to the south of the Site.<br><br>While the adjacent site is not identified as a landfill, and there is no historic mapping to suggest a refuse tip with putrescible material, without a quantified risk in the available data, the potential impact on the site is unknown.<br><br>Much of the Site was noted as CS1, but CS2 has been adopted. | Medium. | Unlikely.        | Low risk.  |
| PL8 | Alluvial ground gas.                                                                               | CH <sub>4</sub> , CO <sub>2</sub> .                    | Diffusion through soil, substructures, aerial inhalation. | Human residential occupants. - future Site Explosion, suffocation. | Alluvial deposits not shown in the local area.<br><br>No source and therefore no pollutant linkage.                                                                                                                                                                                                                                                                    | Medium. | Unlikely.        | Low risk.  |
| PL9 | Peat.                                                                                              | CH <sub>4</sub> , CO <sub>2</sub> .                    | Diffusion through soil, substructures, aerial inhalation. | Human residential occupants. - future Site Explosion, suffocation. | Peat deposits are over 250m from the development.<br><br>No source and therefore no pollutant linkage.                                                                                                                                                                                                                                                                 | Medium. | Unlikely.        | Low risk.  |

## 2. PHASE 2 – SITE INVESTIGATIONS & ASSESSMENT.

### 2.1. Site Investigations.

#### 2.1.1. Investigation Summary.

Recent site investigation to address potential contamination of upper soils were undertaken on the 18.06.2026 by T J Booth Associates.

The investigations comprised 3No. soil samples (S1-3) to assess general chemical contamination for geoenvironmental purposes.

The soil samples were recorded as follows:

TP1.

0 – 440 Dark brown very slightly gravelly clayey SILT. Gravel is rare sandstone & brick.

440 Light brown/grey mottled sandy CLAY.

TP2.

0 – 340 Dark brown very slightly gravelly clayey SILT. Gravel is rare sandstone.

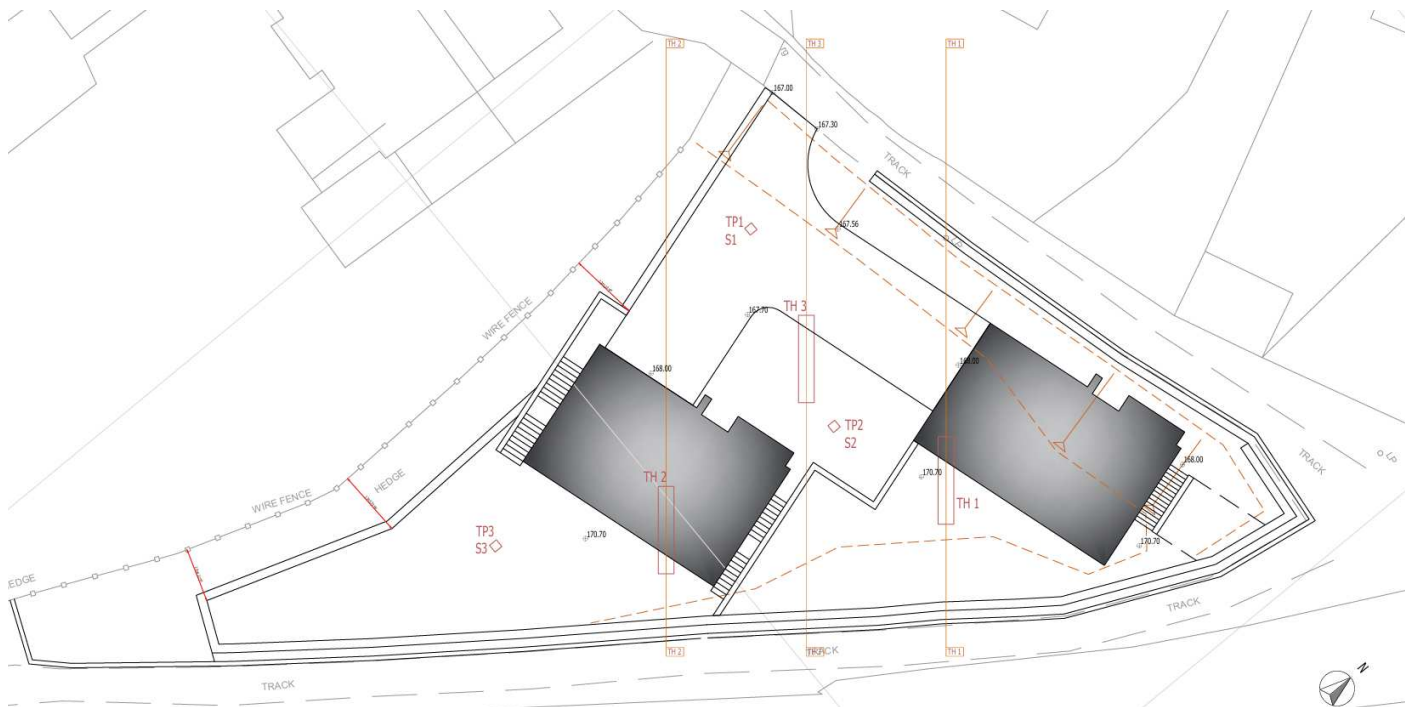
340 Light brown/grey mottled sandy CLAY.

TP3.

0 – 300 Dark brown very slightly gravelly clayey SILT. Gravel is rare sandstone.

300 Light brown/grey mottled sandy CLAY.

The updated site investigation excerpt is noted below (full plan in the Appendix):



Soil samples were taken generally representative of the upper soils. Samples were sealed in 1kg white plastic snap top containers, amber jars & vials; and sent to Envirolab Ltd to be tested for a range of common contaminants.

### 2.2. Final Risk Assessment.

#### 2.2.1. Human Health Risk.

##### 2.2.1.1. Shallow soil contamination.



The samples results have been assessed by TJ Booth Associates to common threshold comparison data for a residential end usage in the following order: Defra Category 4 Screening Levels (C4SLs) > LQM/CIEH (S4ULs) > EIC/AGS/CL:AIRE 2010.

Testing of site soils returned values above residential threshold targets for lead.

Due to the above, there is a risk and garden soils should be remediated.

#### 2.2.1.1.1. Water pipes.

No history of industry or works on site, and no uses which could potentially contribute hydrocarbons, BTEX & MTBE, VOCs/SVOCs, phenols, cresols or chlorinated phenols chemical contamination to the ground profile.

Past site investigations have recorded virgin ground.

There was no visual or olfactory evidence of contamination noted on either trial hole investigations, site reconnaissance, or the later hand excavated trial pit & soil sampling excavations.

No pollutant linkage or risk to the site.

#### 2.2.1.2. Ground Gas Risk.

##### 2.2.1.2.1. Historic landfill & off-site infilled land.

No risk to the site.

No protection measures are required in the development.

##### 2.2.1.2.2. On-site refuse tips/infilled ponds/infilled land.

No risk to the site.

No protection measures are required in the development.

##### 2.2.1.2.3. Radon.

The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level).

Basic radon protective measures are necessary in the construction of new dwellings or extensions.

##### 2.2.1.2.4. Alluvium.

No risk to the site.

No protection measures are required in the development.

##### 2.2.1.2.5. Peat deposits.

No risk to the site.

No protection measures are required in the development.

#### 2.2.1.3. Buildings.

##### 2.2.1.3.1. Sulphate.

Sulphate encountered in the soil samples was low, DS1.

#### 2.2.2. Controlled Waters Risk.

##### 2.2.2.1. Aquifers & Watercourses.

Unproductive clay superficial aquifer beneath.

No watercourses in the immediate locality.

No pollutant linkage & no risk.

### 2.3. Final Conceptual Model.

| POLLUTANT RISK IDENTIFIER | SOURCE                                                                                                    | CONTAMINANT TYPE                              | PATHWAY                                                                           | RECEPTOR                                                                     | POLLUTION LINKAGE                                                                                                                                                                                                                    | RISK       | REMEDIAL MEASURES                                                                                                                                                                                                                                                                                                |
|---------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PL1                       | General contaminants in upper site soil/made ground, and effects on humans/animals/ecology as a receptor. | Metals, PAHs, inorganics, organics, asbestos. | Direct ingestion, aerial ingestion, dermal contact, drinking water.<br><br>Crops. | Primarily human - Site construction operatives & future worker & site users. | Investigation have found lead in the site soil above residential threshold targets.                                                                                                                                                  | High risk. | REMEDIAL MEASURES REQUIRED:<br><br>Soft landscaped/garden areas will have to undergo remedial measures.<br><br>A simple cover system of 600mm will suffice to remove the pathway.                                                                                                                                |
| PL2                       | Potential for mortars/plasters and associated effects on concrete.                                        | Sulphates.                                    | Contact with underground structures.                                              | Building structures /concrete.                                               | None noted.                                                                                                                                                                                                                          | Low risk.  | NO REMEDIATION REQUIRED.                                                                                                                                                                                                                                                                                         |
| PL6                       | Geological ground gas, radon sources in Namurian deposits.                                                | Rn.                                           | Diffusion through soil, substructures, aerial inhalation.                         | Human - future Site residential occupants.                                   | The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level).<br><br>Basic radon protective measures are necessary in the construction of new dwellings or extensions. | High risk. | REMEDIAL MEASURES REQUIRED:<br><br>Basic radon protective measure will be required in the development. As a minimum this will require a radon approved membrane, minimum 400micron (0.4mm) thick. Membranes should be welded/taped, taken through the cavity, and sealed to any penetrations using top hats etc. |

### 3. REMEDIATION STATEMENT.

#### 3.1. Basic Site Details.

#### 3.2. General.

Full details included in the Phase 1 & 2 PRA/Site Investigation Introduction & subsequent sections.

#### 3.3. Conceptual Model (Final) & Relevant Pollution Linkages.

Risks have been identified in the conceptual model, and remediation measures will need to be undertaken to mitigate the risk to the proposed end user.

Three pollutant linkages were noted in the assessment, and are as follows:

- PL1 General contaminants in upper site soil/made ground, and effects on humans/animals/ecology as a receptor.
- PL6 Geological ground gas, radon sources in Namurian deposits.

#### 3.4. Remedial Measures.

##### 3.4.1. PL1 – Made ground/soil.

Upper site soil has been found to be mildly contaminated with lead above residential threshold levels. While it may remain on site beneath permanent hardstandings such as buildings, driveways, pavements & pathways etc; to mitigate the risk to receptors, soft landscaping and general garden areas around the site will need to be remediated by:

EITHER:

- providing 600mm clean/inert imported cover soil over made ground if final finish levels allow;

OR:

- by excavating to virgin CLAY where shallow enough & covering with subsoil/topsoil to suit final finishes.

Imported soil should be clean/inert and free from deleterious materials and should be suitable for use in a residential end use setting.

Imported soil should be able to pass chemical analysis of contaminant suites including: metals, speciated PAH, inorganics & sulphates, SOM, and asbestos screening to current Defra Category 4 Screening Levels (C4SLs) where available, and then to the LQM/CIEH (S4ULs), for use in a residential end use setting.

##### 3.4.2. PL6 – Radon ground gas risk.

Radon is a risk to the site, and foundations/buildings must be protected.

Basic radon protective measure will be required in the development. As a minimum this will require a radon approved membrane, minimum 400micron (0.4mm) thick. Membranes should be welded/taped, taken through the cavity, and sealed to any penetrations using top hats etc.

Basic protection must be in accordance with BRE 211 2023.

#### 3.5. Verification (Phase 4 requirements).

Verification may be required for Planning or Building Control/Building Regulations submission.

Should this be required, it will need to be undertaken by suitably qualified consultants and comprise the following:

- Imported soil source material.
- Characterisation & suitability of material.
- Soil sampling should be undertaken as per YALPAG Guidelines as per the following ratios:
  - Virgin quarried materials, 1-2 samples to confirm inert nature.
  - Crushed hardcore, stone, brick, min 1 sample per 500cum.

- Greenfield/manufactured, generally 1 sample per 250cum (min 3 samples).
- Brownfield, generally 1 sample per 50cum (min 6 samples).
- Samples should be chemically analysed for the following contamination suites: metals, inorganics, PAH USEPA16 speciated, and asbestos screening. Defra Category 4 Screening Levels (C4SLs) > LQM/CIEH (S4ULs) > EIC/AGS/CL:AIRE 2010; for use in a residential end use setting.
- Photographic evidence of soil verification depth.
- Reporting.

### 3.6. Watching Brief.

During the demolition/construction phase of development, and during any ground works thereafter; care should be taken to identify any suspected ground contamination (visual or olfactory) not previously identified, and managed as follows:

- Should any suspected contamination be encountered, the suspect area should be isolated, professional advice sought, and the LPA informed as required.
- Suspected material should undergo testing to identify any contaminants present by suitably qualified personnel in accord with current best practice & guidelines, and risk-assessed to current published data suitable for the proposed end use.
- Should any hazardous contamination be identified, a method for its removal should be produced in line with current best practice & regulations, tailored to the type of contamination present, and agreed with the LPA.
- Should any general low-level contamination be identified, it should be carefully removed & stockpiled separate to on-site soils i.e. on hard-standing or temporary barrier membrane to avoid contamination to the remainder of the site.
- Contaminated material should be disposed of to a suitably licenced landfill site identified by testing certs & contaminants.

Details of any such operations should be included within a final validation/completion report as normal procedure.

### 3.7. Additional Notes.

**Before any further work is undertaken, this report should be submitted to and agreed by the Local Planning Authority Contaminated Land Department/Building Control Department as necessary.**

We trust that the above clear, but should you require further advice please contact the undersigned.



Signed.....



D.S. Slattery BSc (Hons).

T J Booth Associates.

Authorised...

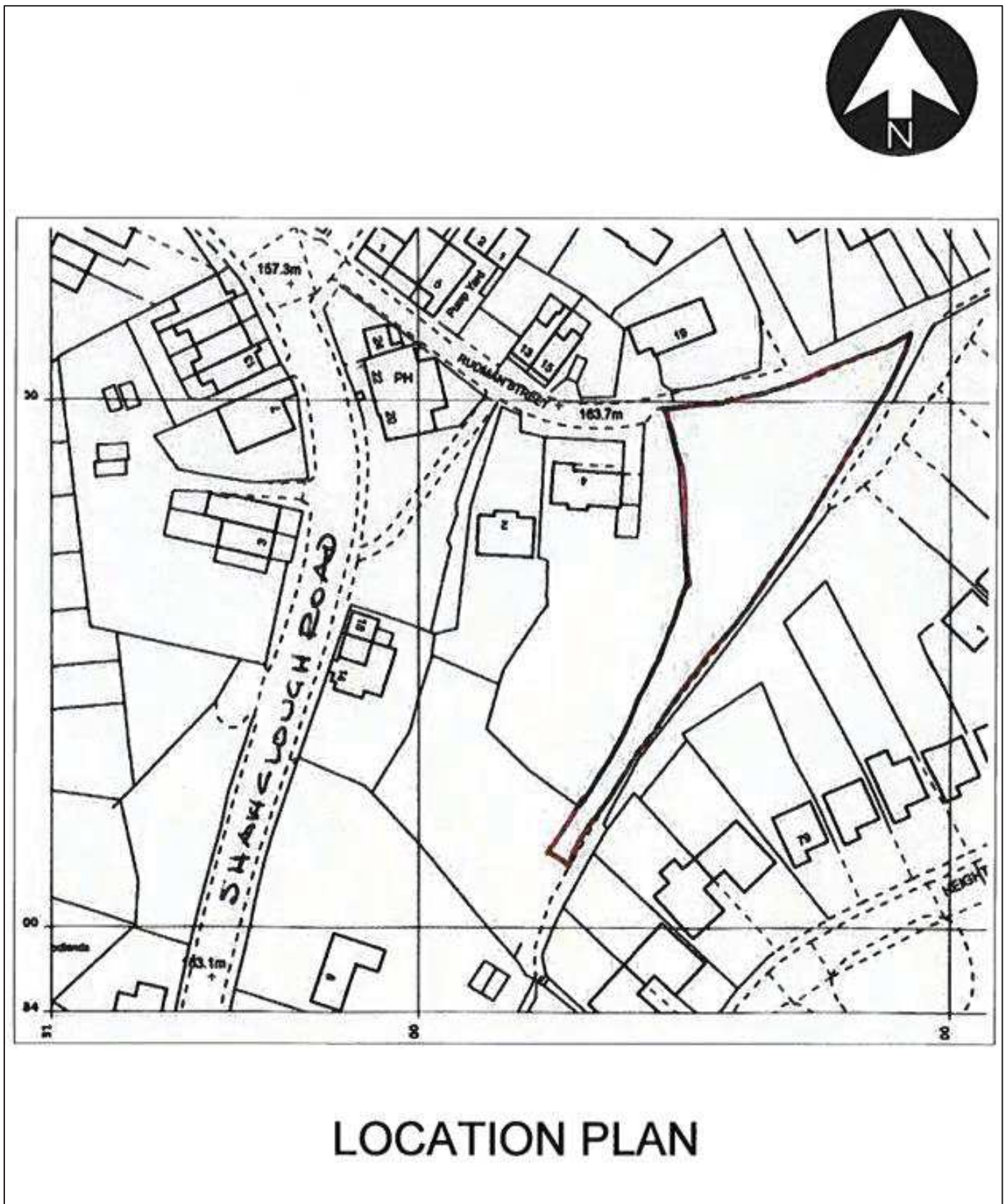


T J Booth BSc (Hons), C. Eng. C. Env. MICE.

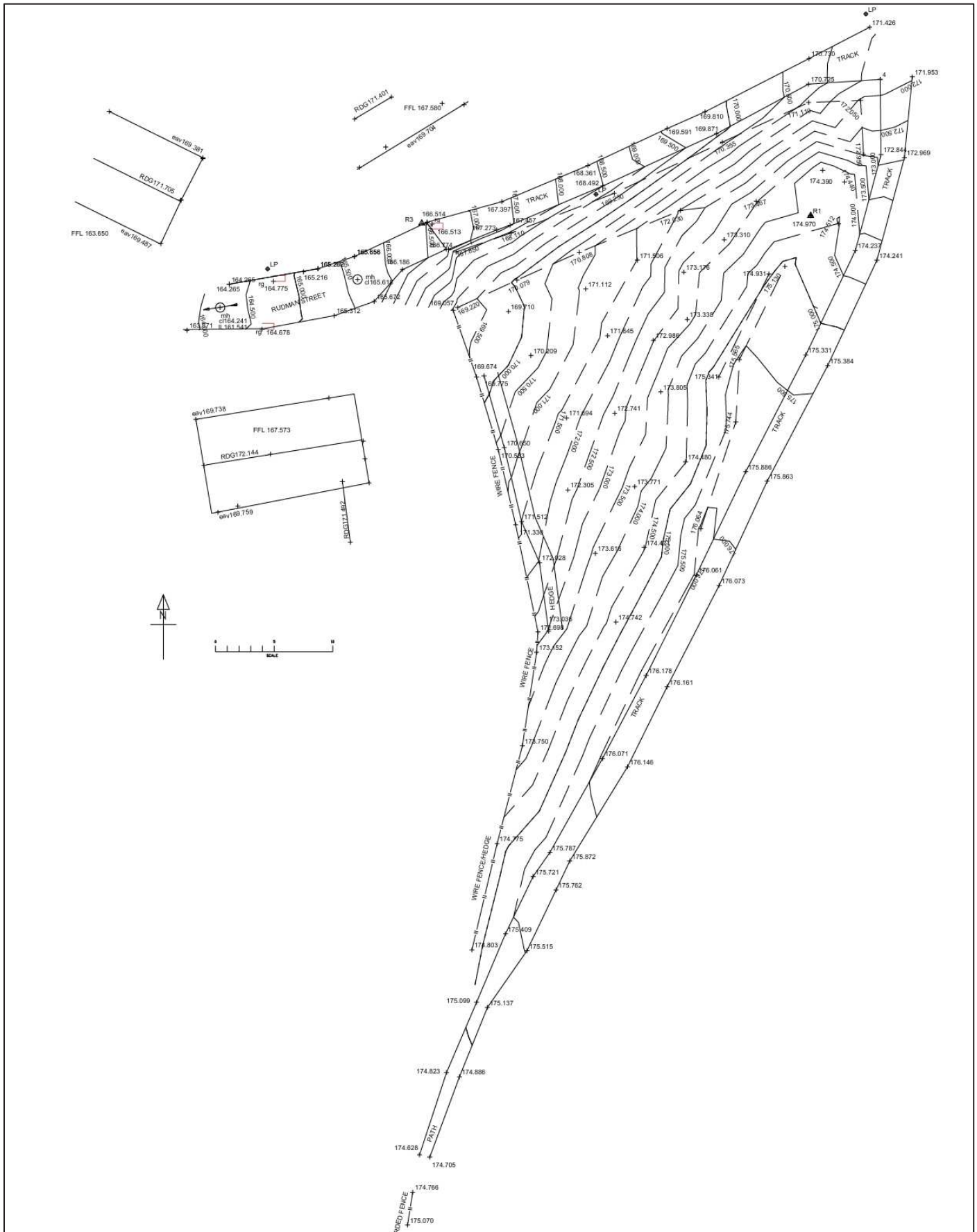
T J Booth Associates.

## 5. APPENDIX A: FIGURES.

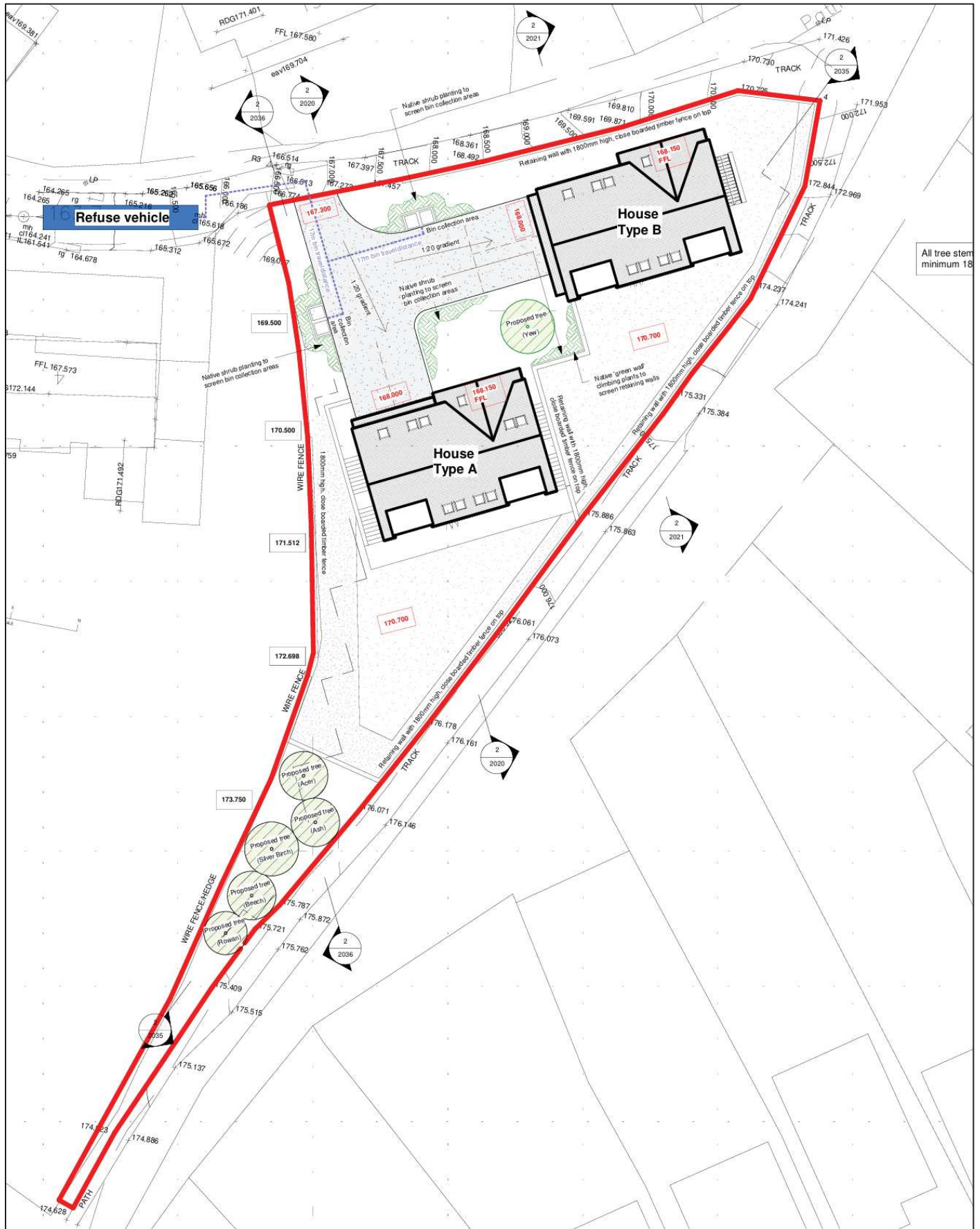
### 5.1. Location Plan.



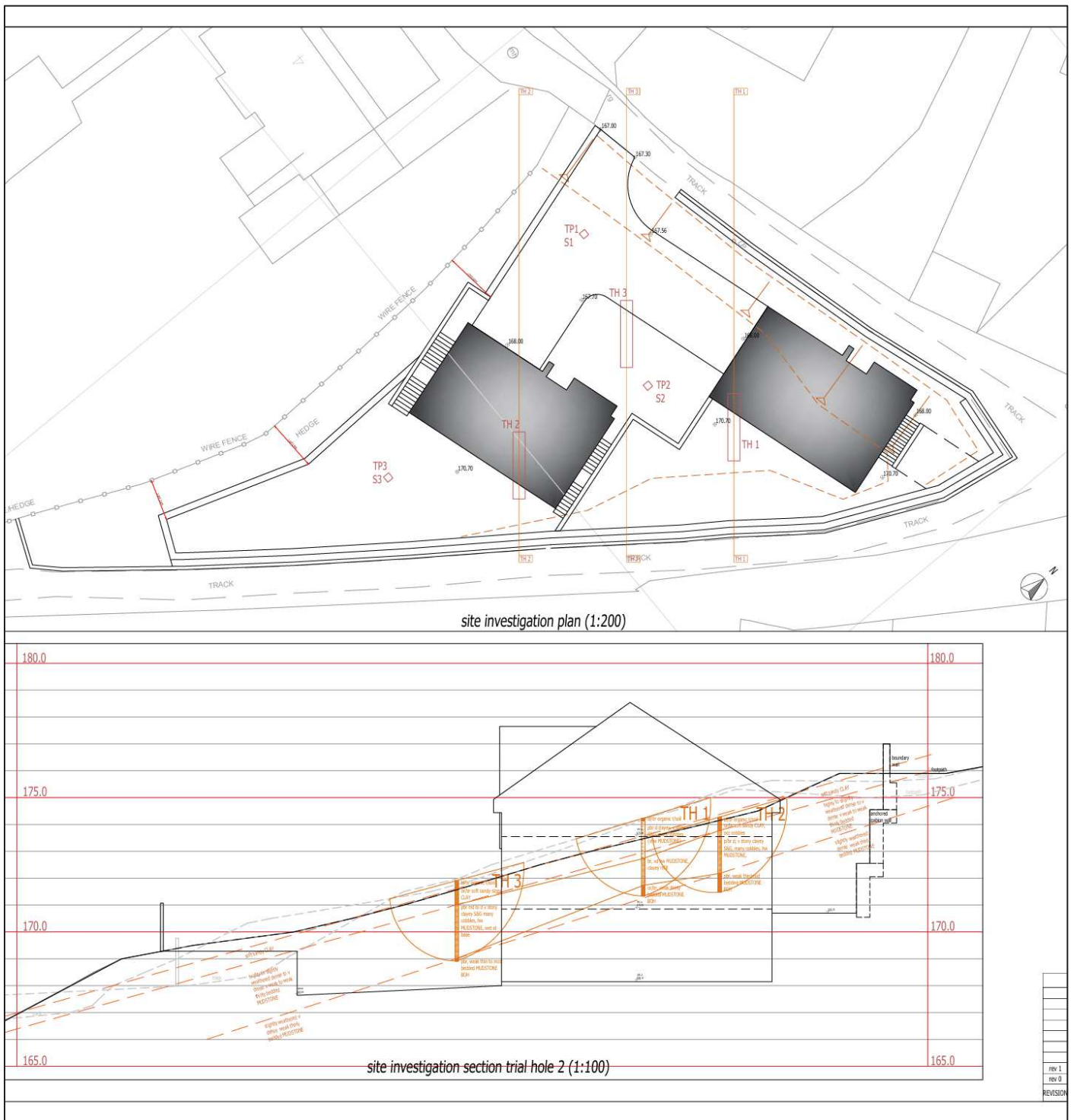
## 5.2. Existing Plan/Topographic Survey.



## 5.3. Proposed Plan.



## 5.4. Site Investigation Plan.



## 5.5. TJBA Soil Analysis.

| CLIENT/SITE:                     |                                     | Hallmark - Rudman Street, Shawclough |       |        |        |                                               |                |         |
|----------------------------------|-------------------------------------|--------------------------------------|-------|--------|--------|-----------------------------------------------|----------------|---------|
| SAMPLE TYPE:                     |                                     | SOILS                                |       |        |        |                                               |                |         |
| SAMPLING DATE:                   |                                     | 18th June 2026                       |       |        |        |                                               |                |         |
| Contaminant                      |                                     | No                                   | Max   | Mean   | t 95   | RESIDENTIAL<br>(with or without plant uptake) |                |         |
|                                  |                                     |                                      |       |        |        |                                               | Pass/Fail      | Comment |
| METAL                            | Arsenic                             | 3                                    | 24    | 21.33  | 24.00  | 37                                            | PASS           |         |
| METAL                            | Boron                               | 3                                    | 1     | 1.00   | 1.00   | 290                                           | PASS           |         |
| METAL                            | Cadmium                             | 3                                    | 1     | 1.00   | 1.00   | 22                                            | PASS           |         |
| METAL                            | Chromium as Cr(III)                 | 3                                    | 26    | 25.33  | 26.00  | 910                                           | PASS           |         |
| METAL                            | Chromium as Cr(VI)                  | 3                                    | 1     | 1.00   | 1.00   | 21                                            | PASS           |         |
| METAL                            | Copper                              | 3                                    | 81    | 69.00  | 80.70  | 2400                                          | PASS           |         |
| METAL                            | Lead                                | 3                                    | 470   | 308.67 | 453.00 | 200                                           | FURTHER ACTION | S1 & S3 |
| METAL                            | Mercury (inorganic)                 | 3                                    | 0.27  | 0.20   | 0.26   | 40                                            | PASS           |         |
| METAL                            | Nickel                              | 3                                    | 36    | 32.67  | 35.90  | 130                                           | PASS           |         |
| METAL                            | Selenium                            | 3                                    | 1     | 1.00   | 1.00   | 250                                           | PASS           |         |
| METAL                            | Zinc as Zn                          | 3                                    | 218   | 151.67 | 209.20 | 3700                                          | PASS           |         |
| INORGANIC                        | Cyanide (Total)                     | 3                                    | 1     | 1.00   | 1.00   | 34                                            | PASS           |         |
| INORGANIC                        | Sulphate (Total) as SO <sub>4</sub> | 3                                    | 0.075 | 0.05   | 0.07   | 0.24                                          | PASS           |         |
| INORGANIC                        | Sulphide                            | 3                                    | 5     | 5.00   | 5.00   | 250                                           | PASS           |         |
| INORGANIC                        | pH                                  | 3                                    | 6.08  | 5.84   | 6.05   | 6 to 8                                        | ACIDIC         |         |
| INORGANIC                        | Sulphur (Elemental)                 | 3                                    | 35    | 21.00  | 33.10  | 100                                           | PASS           |         |
| INORGANIC                        | Asbestos Identification             | 3                                    | 0     | 0.00   | 0.00   | 0                                             | PASS           |         |
| ORGANIC                          | SOM                                 | 3                                    | 6     | 6.00   | 6.00   |                                               |                |         |
| PAH                              | acenaphthene                        | 3                                    | 0.27  | 0.12   | 0.25   | 1100                                          | PASS           |         |
| PAH                              | acenaphthylene                      | 3                                    | 0.04  | 0.03   | 0.04   | 920                                           | PASS           |         |
| PAH                              | anthracene                          | 3                                    | 0.36  | 0.21   | 0.35   | 11000                                         | PASS           |         |
| PAH                              | benzo[a]anthracene                  | 3                                    | 1.37  | 0.98   | 1.35   | 13                                            | PASS           |         |
| PAH                              | benzo[a]pyrene (BaP)                | 3                                    | 1.17  | 0.89   | 1.16   | 5                                             | PASS           |         |
| PAH                              | benzo[b]fluoranthene                | 3                                    | 1.55  | 1.17   | 1.54   | 3.7                                           | PASS           |         |
| PAH                              | benzo[g,h,i]perylene                | 3                                    | 0.66  | 0.50   | 0.66   | 350                                           | PASS           |         |
| PAH                              | benzo[k]fluoranthene                | 3                                    | 0.54  | 0.41   | 0.54   | 100                                           | PASS           |         |
| PAH                              | chrysene                            | 3                                    | 1.8   | 1.31   | 1.78   | 27                                            | PASS           |         |
| PAH                              | dibenz[ah]anthracene                | 3                                    | 0.16  | 0.12   | 0.16   | 0.3                                           | PASS           |         |
| PAH                              | fluoranthene                        | 3                                    | 3.71  | 2.50   | 3.63   | 890                                           | PASS           |         |
| PAH                              | fluorene                            | 3                                    | 0.19  | 0.10   | 0.18   | 860                                           | PASS           |         |
| PAH                              | indeno[123-cd]pyrene                | 3                                    | 0.82  | 0.59   | 0.81   | 41                                            | PASS           |         |
| PAH                              | naphthalene                         | 3                                    | 0.05  | 0.04   | 0.05   | 13                                            | PASS           |         |
| PAH                              | phenanthrene                        | 3                                    | 2.37  | 1.40   | 2.28   | 440                                           | PASS           |         |
| PAH                              | pyrene                              | 3                                    | 3.19  | 2.17   | 3.12   | 2000                                          | PASS           |         |
| PHENOLS AND CHLOROPHENOLS (SVOC) | Phenol                              | 3                                    | 0.2   | 0.20   | 0.20   | 380                                           | PASS           |         |

Comments Key

Asbestos: A=amosite (brown), CH=chrysotile (white), CR=crocidolite (blue)

## 5.6. Envirolab Ltd Certificates.



Hattersley Science & Technology Park  
Stockport Road, Hattersley, SK14 3QU

**FINAL ANALYTICAL TEST REPORT**

**Envirolab Job Number:** 26/07741

**Issue Number:** 1

**Date:** 13 July, 2026

**Client:** T J Booth Associates  
20a East Gate Street  
Rochdale  
Rochdale  
Greater Manchester  
UK  
OL16 1DH

**Project Manager:** Daniel Slattery  
**Project Name:** Hallmark - Rudman Street, Shawclough, Rochdale  
**Project Ref:** N/A  
**Order No:** N/A  
**Date Samples Received:** 22/06/26  
**Date Instructions Received:** 22/06/26  
**Date Analysis Completed:** 12/07/26

**Approved by:**

Kelsey Heaton  
Client Manager





Envirolab Job Number: 26/07741

Client Project Name: Hallmark - Rudman Street,  
Shawclough, Rochdale

Client Project Ref: N/A

| Lab Sample ID                                     | 26/07741/1 | 26/07741/2 | 26/07741/3 |  |  |  |  |       |                    |
|---------------------------------------------------|------------|------------|------------|--|--|--|--|-------|--------------------|
| Client Sample No                                  | S1         | S2         | S3         |  |  |  |  |       |                    |
| Client Sample ID                                  | TP1        | TP2        | TP3        |  |  |  |  |       |                    |
| Depth to Top                                      | 0.00       | 0.00       | 0.00       |  |  |  |  |       |                    |
| Depth To Bottom                                   | 0.44       | 0.34       | 0.30       |  |  |  |  |       |                    |
| Date Sampled                                      | 18-Jun-26  | 18-Jun-26  | 18-Jun-26  |  |  |  |  |       |                    |
| Sample Type                                       | SOIL       | SOIL       | SOIL       |  |  |  |  |       |                    |
| Sample Matrix Code                                | 6AE        | 6AE        | 6AE        |  |  |  |  |       |                    |
|                                                   |            |            |            |  |  |  |  | Units | Limit of Detection |
| % Stones >10mm <sub>A</sub>                       | <0.1       | 12.6       | <0.1       |  |  |  |  | % w/w | 0.1                |
| pH <sub>0</sub> <sup>W</sup>                      | 5.70       | 5.73       | 6.08       |  |  |  |  | pH    | 0.01               |
| Sulphate (acid soluble) <sub>0</sub> <sup>W</sup> | 750        | 450        | 420        |  |  |  |  | mg/kg | 200                |
| Cyanide (total) <sub>A</sub> <sup>W</sup>         | <1         | <1         | <1         |  |  |  |  | mg/kg | 1                  |
| Phenols - Total by HPLC <sub>A</sub>              | <0.2       | <0.2       | <0.2       |  |  |  |  | mg/kg | 0.2                |
| Sulphide <sub>A</sub>                             | <5         | <5         | <5         |  |  |  |  | mg/kg | 5                  |
| Sulphur (elemental) <sub>0</sub> <sup>W</sup>     | 12         | 35         | 16         |  |  |  |  | mg/kg | 5                  |
| Organic Matter <sub>0</sub> <sup>W</sup>          | 15.5       | 13.4       | 9.91       |  |  |  |  | % w/w | 0.14               |
| Arsenic <sub>0</sub> <sup>W</sup>                 | 24         | 16         | 24         |  |  |  |  | mg/kg | 1                  |
| Boron (water soluble) <sub>0</sub> <sup>W</sup>   | <1.0       | <1.0       | <1.0       |  |  |  |  | mg/kg | 1                  |
| Cadmium <sub>0</sub> <sup>W</sup>                 | <1.0       | <1.0       | <1.0       |  |  |  |  | mg/kg | 1                  |
| Copper <sub>0</sub> <sup>W</sup>                  | 81         | 48         | 78         |  |  |  |  | mg/kg | 1                  |
| Chromium <sub>0</sub> <sup>W</sup>                | 26         | 24         | 26         |  |  |  |  | mg/kg | 1                  |
| Chromium (hexavalent) <sub>0</sub>                | <1         | <1         | <1         |  |  |  |  | mg/kg | 1                  |
| Lead <sub>0</sub> <sup>W</sup>                    | 470        | 156        | 300        |  |  |  |  | mg/kg | 1                  |
| Mercury <sub>0</sub>                              | 0.27       | <0.17      | <0.17      |  |  |  |  | mg/kg | 0.17               |
| Nickel <sub>0</sub> <sup>W</sup>                  | 36         | 27         | 35         |  |  |  |  | mg/kg | 1                  |
| Selenium <sub>0</sub> <sup>W</sup>                | 1          | <1         | 1          |  |  |  |  | mg/kg | 1                  |
| Zinc <sub>0</sub> <sup>W</sup>                    | 130        | 107        | 218        |  |  |  |  | mg/kg | 1                  |



Envirolab Job Number: 26/07741

Client Project Name: Hallmark - Rudman Street,  
Shawclough, Rochdale

Client Project Ref: N/A

| Lab Sample ID                                                   | 26/07741/1 | 26/07741/2 | 26/07741/3 |  |  |  |  | Units | Limit of Detection | Method ref |
|-----------------------------------------------------------------|------------|------------|------------|--|--|--|--|-------|--------------------|------------|
| Client Sample No                                                | S1         | S2         | S3         |  |  |  |  |       |                    |            |
| Client Sample ID                                                | TP1        | TP2        | TP3        |  |  |  |  |       |                    |            |
| Depth to Top                                                    | 0.00       | 0.00       | 0.00       |  |  |  |  |       |                    |            |
| Depth To Bottom                                                 | 0.44       | 0.34       | 0.30       |  |  |  |  |       |                    |            |
| Date Sampled                                                    | 18-Jun-26  | 18-Jun-26  | 18-Jun-26  |  |  |  |  |       |                    |            |
| Sample Type                                                     | SOIL       | SOIL       | SOIL       |  |  |  |  |       |                    |            |
| Sample Matrix Code                                              | 6AE        | 6AE        | 6AE        |  |  |  |  |       |                    |            |
| Asbestos in Soil (inc. matrix)                                  |            |            |            |  |  |  |  |       |                    |            |
| Asbestos in soil <sup>a</sup>                                   | NAD        | NAD        | NAD        |  |  |  |  |       |                    | A-T-045    |
| Asbestos Matrix (visual) <sub>0</sub>                           | -          | -          | -          |  |  |  |  |       |                    | A-T-045    |
| Asbestos Matrix (microscope) <sub>0</sub>                       | -          | -          | -          |  |  |  |  |       |                    | A-T-045    |
| Asbestos ACM - Suitable for Water Absorption Test? <sub>0</sub> | N/A        | N/A        | N/A        |  |  |  |  |       |                    | A-T-045    |



Envirolab Job Number: 26/07741

Client Project Name: Hallmark - Rudman Street,  
Shawclough, Rochdale

Client Project Ref: N/A

| Lab Sample ID                                    | 26/07741/1         | 26/07741/2         | 26/07741/3        |  |  |  |  | Units | Limit of Detection | Method ref |
|--------------------------------------------------|--------------------|--------------------|-------------------|--|--|--|--|-------|--------------------|------------|
| Client Sample No                                 | S1                 | S2                 | S3                |  |  |  |  |       |                    |            |
| Client Sample ID                                 | TP1                | TP2                | TP3               |  |  |  |  |       |                    |            |
| Depth to Top                                     | 0.00               | 0.00               | 0.00              |  |  |  |  |       |                    |            |
| Depth To Bottom                                  | 0.44               | 0.34               | 0.30              |  |  |  |  |       |                    |            |
| Date Sampled                                     | 18-Jun-26          | 18-Jun-26          | 18-Jun-26         |  |  |  |  |       |                    |            |
| Sample Type                                      | SOIL               | SOIL               | SOIL              |  |  |  |  |       |                    |            |
| Sample Matrix Code                               | 6AE                | 6AE                | 6AE               |  |  |  |  |       |                    |            |
| PAH-16MS                                         |                    |                    |                   |  |  |  |  |       |                    |            |
| Acenaphthene <sub>A</sub> <sup>MS</sup>          | 0.08               | 0.02               | 0.27              |  |  |  |  | mg/kg | 0.01               | A-T-019a   |
| Acenaphthylene <sub>A</sub> <sup>MS</sup>        | 0.04               | <0.01              | 0.03              |  |  |  |  | mg/kg | 0.01               | A-T-019a   |
| Anthracene <sub>A</sub> <sup>MS</sup>            | 0.21               | 0.06               | 0.36              |  |  |  |  | mg/kg | 0.02               | A-T-019a   |
| Benzo(a)anthracene <sub>A</sub> <sup>MS</sup>    | 1.13               | 0.43               | 1.37              |  |  |  |  | mg/kg | 0.04               | A-T-019a   |
| Benzo(a)pyrene <sub>A</sub> <sup>MS</sup>        | 1.10               | 0.41               | 1.17              |  |  |  |  | mg/kg | 0.04               | A-T-019a   |
| Benzo(b)fluoranthene <sub>A</sub> <sup>MS</sup>  | 1.45               | 0.50               | 1.55              |  |  |  |  | mg/kg | 0.05               | A-T-019a   |
| Benzo(ghi)perylene <sub>A</sub> <sup>MS</sup>    | 0.66               | 0.22               | 0.63              |  |  |  |  | mg/kg | 0.05               | A-T-019a   |
| Benzo(k)fluoranthene <sub>A</sub> <sup>MS</sup>  | 0.54               | 0.17               | 0.53              |  |  |  |  | mg/kg | 0.07               | A-T-019a   |
| Chrysene <sub>A</sub> <sup>MS</sup>              | 1.56               | 0.57               | 1.80              |  |  |  |  | mg/kg | 0.06               | A-T-019a   |
| Dibenzo(ah)anthracene <sub>A</sub> <sup>MS</sup> | 0.13               | 0.06               | 0.16              |  |  |  |  | mg/kg | 0.04               | A-T-019a   |
| Fluoranthene <sub>A</sub> <sup>MS</sup>          | 2.93               | 0.87               | 3.71              |  |  |  |  | mg/kg | 0.08               | A-T-019a   |
| Fluorene <sub>A</sub> <sup>MS</sup>              | 0.09               | 0.02               | 0.19              |  |  |  |  | mg/kg | 0.01               | A-T-019a   |
| Indeno(123-cd)pyrene <sub>A</sub> <sup>MS</sup>  | 0.82               | 0.25               | 0.71              |  |  |  |  | mg/kg | 0.03               | A-T-019a   |
| Naphthalene <sub>A</sub> <sup>MS</sup>           | <0.03 <sup>U</sup> | <0.03 <sup>U</sup> | 0.05 <sup>U</sup> |  |  |  |  | mg/kg | 0.03               | A-T-019a   |
| Phenanthrene <sub>A</sub> <sup>MS</sup>          | 1.45               | 0.38               | 2.37              |  |  |  |  | mg/kg | 0.03               | A-T-019a   |
| Pyrene <sub>A</sub> <sup>MS</sup>                | 2.52               | 0.79               | 3.19              |  |  |  |  | mg/kg | 0.07               | A-T-019a   |
| Total PAH-16MS <sub>A</sub> <sup>MS</sup>        | 14.7               | 4.75               | 18.1              |  |  |  |  | mg/kg | 0.01               | A-T-019a   |



## Report Notes

### General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

### Key

|                           |                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------|
| Superscript "#"           | Accredited to ISO 17025                                                                                |
| Superscript "M"           | Accredited to MCertS                                                                                   |
| Superscript "U"           | Individual result not accredited                                                                       |
| None of the above symbols | Analysis unaccredited                                                                                  |
| Subscript "A"             | Analysis performed on as-received Sample                                                               |
| Subscript "D"             | Analysis performed on the dried sample, crushed to pass 2mm sieve.                                     |
| Subscript "D" on Asbestos | Analysis performed on a dried aliquot of sample provided.                                              |
| Subscript "A"             | Analysis has dependant options against results. Details appear in the comments of your Sample receipt. |
| Subscript "@"             | Result is an opinion                                                                                   |
| IS                        | Insufficient Sample for analysis                                                                       |
| US                        | Unsuitable Sample for analysis                                                                         |
| NDP                       | No Determination Possible                                                                              |
| NAD                       | No Asbestos Detected                                                                                   |
| Trace                     | Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.           |
| N/A                       | Not applicable                                                                                         |

### Asbestos

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

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

"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

### Assigned Matrix Codes

|   |           |   |                                             |   |                               |
|---|-----------|---|---------------------------------------------|---|-------------------------------|
| 1 | SAND      | 6 | CLAY/LOAM                                   | A | Contains Stones               |
| 2 | LOAM      | 7 | OTHER                                       | B | Contains Construction Rubble  |
| 3 | CLAY      | 8 | Asbestos Bulk (Only Asbestos ID accredited) | C | Contains visible hydrocarbons |
| 4 | LOAM/SAND | 9 | Incinerator Ash (some Metals accredited)    | D | Contains glass / metal        |
| 5 | SAND/CLAY |   |                                             | E | Contains roots / twigs        |

**Note:** 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

### Soil Chemical Analysis:

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

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

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

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

### TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.

Results "with Clean up" indicates samples cleaned up with Silica during extraction.

### EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

### Electrical Conductivity of water by method A-T-037:

Results greater than 1290µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.



### Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU  
Tel. 0161 368 4921 email. ask@envirolab.co.uk

**Client:** T J Booth Associates, 20a East Gate Street, Rochdale, Rochdale, Greater Manchester, UK, OL16 1DH  
**Project:** Hallmark - Rudman Street, Shawclough, Rochdale  
**Clients Project No:** N/A

**Project No:** 26/07741  
**Date Received:** 22/06/2026 (am)  
**Cool Box Temperatures (°C):** 21.6

| Lab Sample ID          | 26/07741/1        | 26/07741/2        | 26/07741/3        |
|------------------------|-------------------|-------------------|-------------------|
| Client Sample No       | S1                | S2                | S3                |
| Client Sample ID/Depth | TP1<br>0.00-0.44m | TP2<br>0.00-0.34m | TP3<br>0.00-0.30m |
| Date Sampled           | 18/06/26          | 18/06/26          | 18/06/26          |
| Deviation Code         |                   |                   |                   |
| F                      | ✓                 | ✓                 | ✓                 |

Key

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

#### HOLDING TIME EXCEEDANCES

| Lab Sample ID          | 26/07741/1        | 26/07741/2        | 26/07741/3        |
|------------------------|-------------------|-------------------|-------------------|
| Client Sample No       | S1                | S2                | S3                |
| Client Sample ID/Depth | TP1<br>0.00-0.44m | TP2<br>0.00-0.34m | TP3<br>0.00-0.30m |
| Date Sampled           | 18/06/26          | 18/06/26          | 18/06/26          |
| Cyanide (total)        | ✓                 | ✓                 | ✓                 |

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

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### Envirolab Analysis Dates

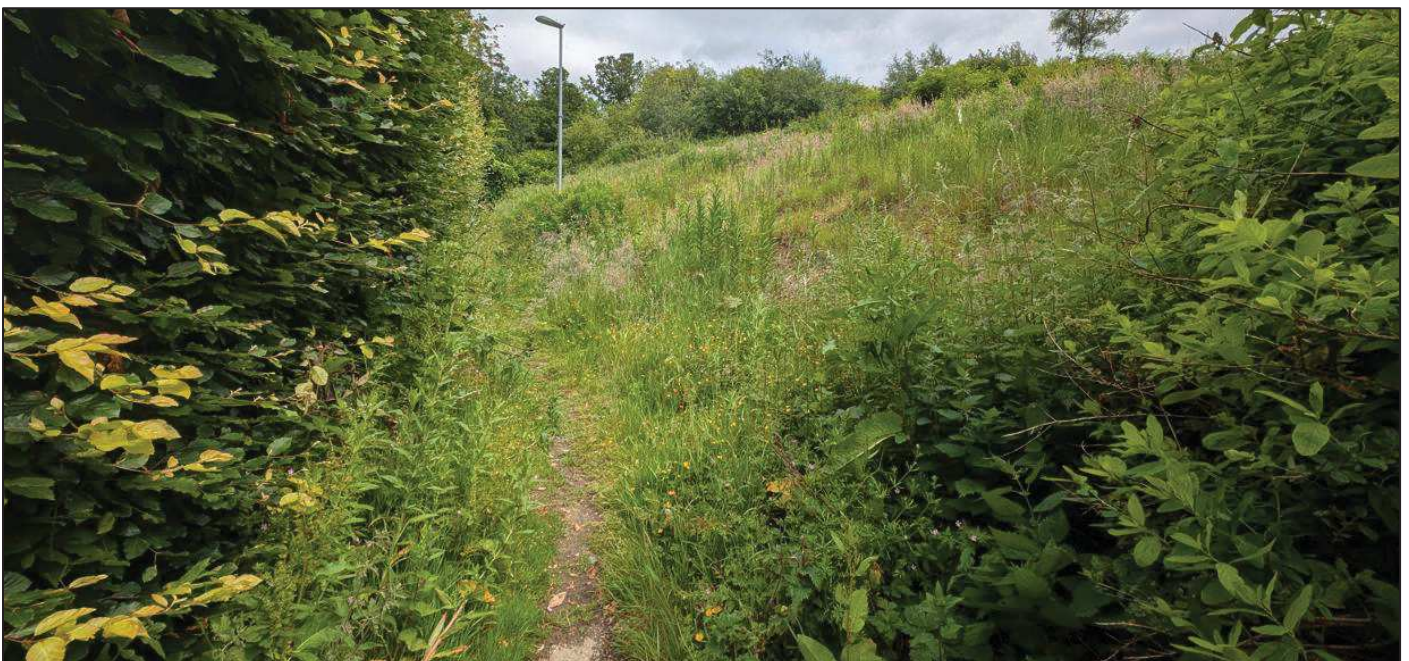
| Lab Sample ID          | 26/07741/1        | 26/07741/2        | 26/07741/3        |
|------------------------|-------------------|-------------------|-------------------|
| Client Sample No       | S1                | S2                | S3                |
| Client Sample ID/Depth | TP1<br>0.00-0.44m | TP2<br>0.00-0.34m | TP3<br>0.00-0.30m |
| Date Sampled           | 18/06/26          | 18/06/26          | 18/06/26          |
| A-T-019s               | 29/06/2026        | 29/06/2026        | 29/06/2026        |
| A-T-024s               | 12/07/2026        | 12/07/2026        | 12/07/2026        |
| A-T-027s               | 03/07/2026        | 03/07/2026        | 03/07/2026        |
| A-T-028s               | 03/07/2026        | 03/07/2026        | 03/07/2026        |
| A-T-029s               | 03/07/2026        | 09/07/2026        | 03/07/2026        |
| A-T-031s               | 03/07/2026        | 03/07/2026        | 03/07/2026        |
| A-T-032s               | 09/07/2026        | 09/07/2026        | 09/07/2026        |
| A-T-040s               | 06/07/2026        | 06/07/2026        | 06/07/2026        |
| A-T-042sTCN            | 06/07/2026        | 06/07/2026        | 06/07/2026        |
| A-T-043-s              | 06/07/2026        | 06/07/2026        | 06/07/2026        |
| A-T-044                | 29/06/2026        | 29/06/2026        | 29/06/2026        |
| A-T-045                | 24/06/2026        | 24/06/2026        | 24/06/2026        |
| A-T-050s               | 09/07/2026        | 09/07/2026        | 09/07/2026        |

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Page 7 of 7

## 6. APPENDIX B: SITE WALKOVER PHOTOS.



## 7. APPENDIX C: LANDMARK ENVIROCHECK.

**Envirocheck® Report:****Mining and Ground  
Stability Datasheet****Order Details:****Order Number:**

316125844\_1\_1

**Customer Reference:**

tjba-250823-00

**National Grid Reference:**

389060, 414670

**Slice:**

A

**Site Area (Ha):**

0.14

**Search Buffer (m):**

1000

**Site Details:**

land at Rudman St  
Shawclough  
ROCHDALE  
OL12 6LJ

**Client Details:**

Mr T Booth  
TJ Booth Associates  
20a Eastgate Street  
Rochdale  
Lancashire  
OL16 1DH



# Envirocheck<sup>®</sup>

LANDMARK INFORMATION GROUP<sup>®</sup>

## Summary

| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                                |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     | Yes       | Yes         | n/a                            |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                                |
| Discharge Consents                                            | pg 3        |         |           | 5           | 17                             |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                            |
| Enforcement and Prohibition Notices                           | pg 9        |         |           |             | 1                              |
| Integrated Pollution Controls                                 | pg 9        |         |           |             | 6                              |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                                |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                                |
| Local Authority Pollution Prevention and Controls             | pg 10       |         |           | 2           | 9                              |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                                |
| Nearest Surface Water Feature                                 |             |         | Yes       |             |                                |
| Pollution Incidents to Controlled Waters                      | pg 11       |         | 2         | 6           | 27                             |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                                |
| Registered Radioactive Substances                             |             |         |           |             |                                |
| River Quality                                                 | pg 17       |         |           |             | 1                              |
| River Quality Biology Sampling Points                         |             |         |           |             |                                |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                                |
| Substantiated Pollution Incident Register                     | pg 17       |         |           |             | 2                              |
| Water Abstractions                                            | pg 18       |         |           | 1           | 5 (*27)                        |
| Water Industry Act Referrals                                  |             |         |           |             |                                |
| Groundwater Vulnerability Map                                 | pg 26       | Yes     | n/a       | n/a         | n/a                            |
| Groundwater Vulnerability - Soluble Rock Risk                 |             |         | n/a       | n/a         | n/a                            |
| Bedrock Aquifer Designations                                  | pg 26       | Yes     | n/a       | n/a         | n/a                            |
| Superficial Aquifer Designations                              | pg 26       | Yes     | n/a       | n/a         | n/a                            |
| Source Protection Zones                                       |             |         |           |             |                                |
| Extreme Flooding from Rivers or Sea without Defences          |             |         |           | n/a         | n/a                            |
| Flooding from Rivers or Sea without Defences                  |             |         |           | n/a         | n/a                            |
| Areas Benefiting from Flood Defences                          |             |         |           | n/a         | n/a                            |
| Flood Water Storage Areas                                     |             |         |           | n/a         | n/a                            |
| Flood Defences                                                |             |         |           | n/a         | n/a                            |
| OS Water Network Lines                                        | pg 27       |         | 2         | 6           | 33                             |

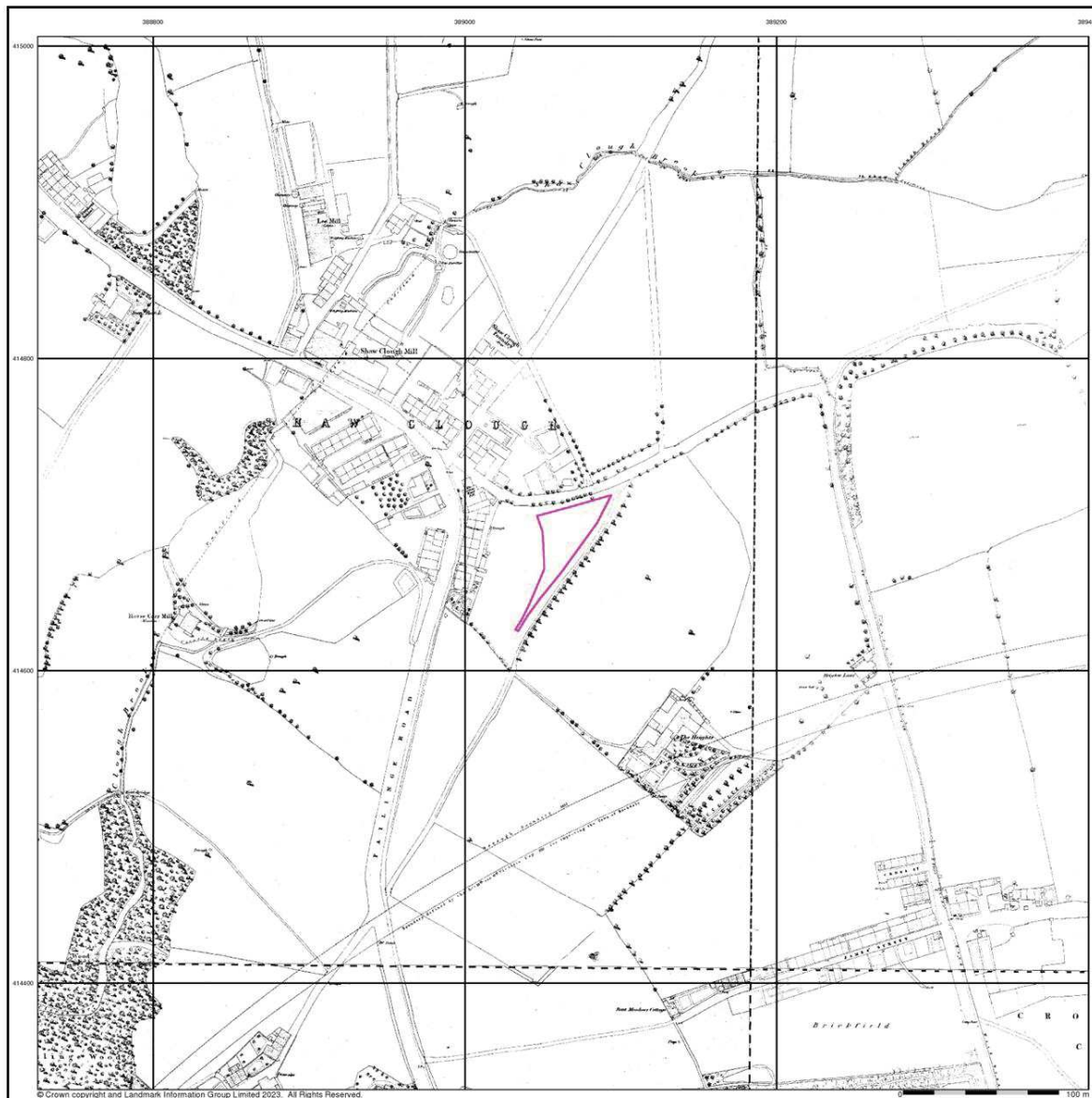
# Envirocheck<sup>®</sup>

LANDMARK INFORMATION GROUP<sup>®</sup>

## Summary

| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                                |
| BGS Recorded Landfill Sites                                         |             |         |           |             |                                |
| Historical Landfill Sites                                           | pg 32       |         | 1         | 1           | 4                              |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                                |
| Licensed Waste Management Facilities (Landfill Boundaries)          | pg 33       |         |           | 1           |                                |
| Licensed Waste Management Facilities (Locations)                    | pg 33       |         |           |             | 8                              |
| Local Authority Landfill Coverage                                   | pg 35       | 1       | n/a       | n/a         | n/a                            |
| Local Authority Recorded Landfill Sites                             |             |         |           |             |                                |
| Registered Landfill Sites                                           | pg 35       |         |           | 1           | 3                              |
| Registered Waste Transfer Sites                                     | pg 37       |         |           |             | 1                              |
| Registered Waste Treatment or Disposal Sites                        | pg 38       |         |           |             | 2                              |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                                |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                                |
| Explosive Sites                                                     |             |         |           |             |                                |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                                |
| Planning Hazardous Substance Consents                               |             |         |           |             |                                |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                                |
| <b>Geological</b>                                                   |             |         |           |             |                                |
| BGS 1:625,000 Solid Geology                                         | pg 39       | Yes     | n/a       | n/a         | n/a                            |
| BGS Recorded Mineral Sites                                          | pg 39       |         |           | 1           | 8                              |
| CBSCB Compensation District                                         |             |         | n/a       | n/a         | n/a                            |
| Coal Mining Affected Areas                                          | pg 40       | Yes     | n/a       | n/a         | n/a                            |
| Mining Instability                                                  | pg 40       | Yes     | n/a       | n/a         | n/a                            |
| Man-Made Mining Cavities                                            |             |         |           |             |                                |
| Natural Cavities                                                    |             |         |           |             |                                |
| Non Coal Mining Areas of Great Britain                              |             |         |           | n/a         | n/a                            |
| Potential for Collapsible Ground Stability Hazards                  | pg 40       | Yes     |           | n/a         | n/a                            |
| Potential for Compressible Ground Stability Hazards                 | pg 40       |         | Yes       | n/a         | n/a                            |
| Potential for Ground Dissolution Stability Hazards                  |             |         |           | n/a         | n/a                            |
| Potential for Landslide Ground Stability Hazards                    | pg 41       | Yes     | Yes       | n/a         | n/a                            |
| Potential for Running Sand Ground Stability Hazards                 | pg 41       | Yes     |           | n/a         | n/a                            |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 41       | Yes     |           | n/a         | n/a                            |
| Radon Potential - Radon Affected Areas                              | pg 41       | Yes     | n/a       | n/a         | n/a                            |
| Radon Potential - Radon Protection Measures                         | pg 41       | Yes     | n/a       | n/a         | n/a                            |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                                |
| Contemporary Trade Directory Entries | pg 42       |         | 15        | 25          | 155                            |
| Fuel Station Entries                 | pg 59       |         |           | 1           | 1                              |
| Gas Pipelines                        |             |         |           |             |                                |
| Underground Electrical Cables        |             |         |           |             |                                |
| <b>Sensitive Land Use</b>            |             |         |           |             |                                |
| Ancient Woodland                     |             |         |           |             |                                |
| Areas of Adopted Green Belt          | pg 60       |         |           |             | 2                              |
| Areas of Unadopted Green Belt        |             |         |           |             |                                |
| Areas of Outstanding Natural Beauty  |             |         |           |             |                                |
| Environmentally Sensitive Areas      |             |         |           |             |                                |
| Forest Parks                         |             |         |           |             |                                |
| Local Nature Reserves                | pg 60       |         |           |             | 1                              |
| Marine Nature Reserves               |             |         |           |             |                                |
| National Nature Reserves             |             |         |           |             |                                |
| National Parks                       |             |         |           |             |                                |
| Nitrate Sensitive Areas              |             |         |           |             |                                |
| Nitrate Vulnerable Zones             |             |         |           |             |                                |
| Ramsar Sites                         |             |         |           |             |                                |
| Sites of Special Scientific Interest |             |         |           |             |                                |
| Special Areas of Conservation        |             |         |           |             |                                |
| Special Protection Areas             |             |         |           |             |                                |
| World Heritage Sites                 |             |         |           |             |                                |



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## Lancashire And Furness

Published 1851

Source map scale - 1:1,056

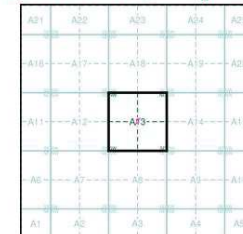
The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1848 and was used to survey towns with a population of over 4000, plus county towns of lesser population, in those counties mapped at the six-inch scale in 1841-55. The scale was the largest scale at which London was mapped by the Ordnance Survey and a 'skeleton' survey of the capital, showing little more than streets, street names, frontages and altitudes, was undertaken between 1848 and 1850. The majority of the 1:1056 surveys were later replaced by 1:500 surveys; although almost all the remainder were revised at this scale, sometimes more than once before 1895. The type of detail shown on the 1:1056 scale is broadly similar to that on 1:500; the apparent omission of minor details such as sewer access points and street lights may be as much a reflection of the generally earlier date of these plans, as of the specification of the map.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

### Map Name(s) and Date(s)

|                                |                                |
|--------------------------------|--------------------------------|
| 000_00_001<br>1851<br>1:1 0 56 | 000_00_002<br>1851<br>1:1 0 56 |
| 000_00_004<br>1851<br>1:1 0 56 | 000_00_005<br>1851<br>1:1 0 56 |

### Historical Town Plan - Segment A13



### Order Details

Order Number: 316125844\_1\_1  
Customer Ref: tjba-250823-00  
National Grid Reference: 389060, 414670  
Slice: A  
Site Area (Ha): 0.14  
Search Buffer (m): 0

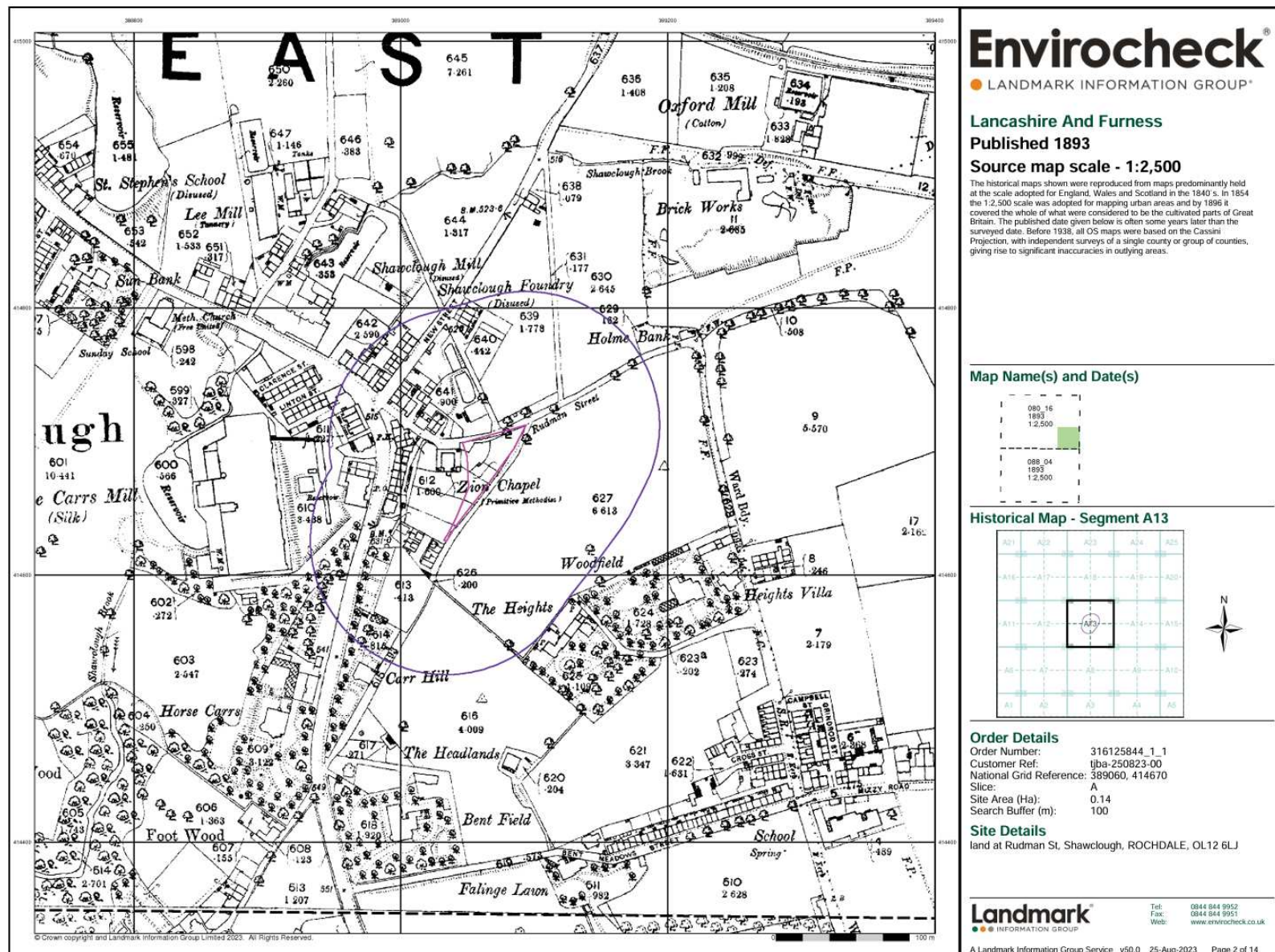
### Site Details

land at Rudman St, Shawclough, ROCHDALE, OL12 6LJ

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

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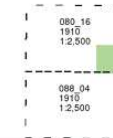
## Lancashire And Furness

Published 1910

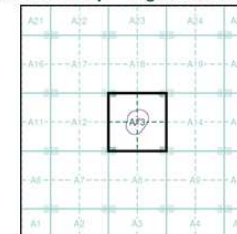
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 316125844\_1\_1  
 Customer Ref: tjba-250823-00  
 National Grid Reference: 389060, 414670  
 Slice: A  
 Site Area (Ha): 0.14  
 Search Buffer (m): 100

### Site Details

land at Rudman St, Shawclough, ROCHDALE, OL12 6LJ

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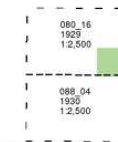
## Lancashire And Furness

Published 1929 - 1930

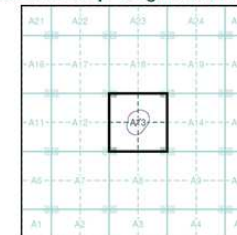
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 316125844\_1\_1  
Customer Ref: tjba-250823-00  
National Grid Reference: 389060, 414670  
Slice: A  
Site Area (Ha): 0.14  
Search Buffer (m): 100

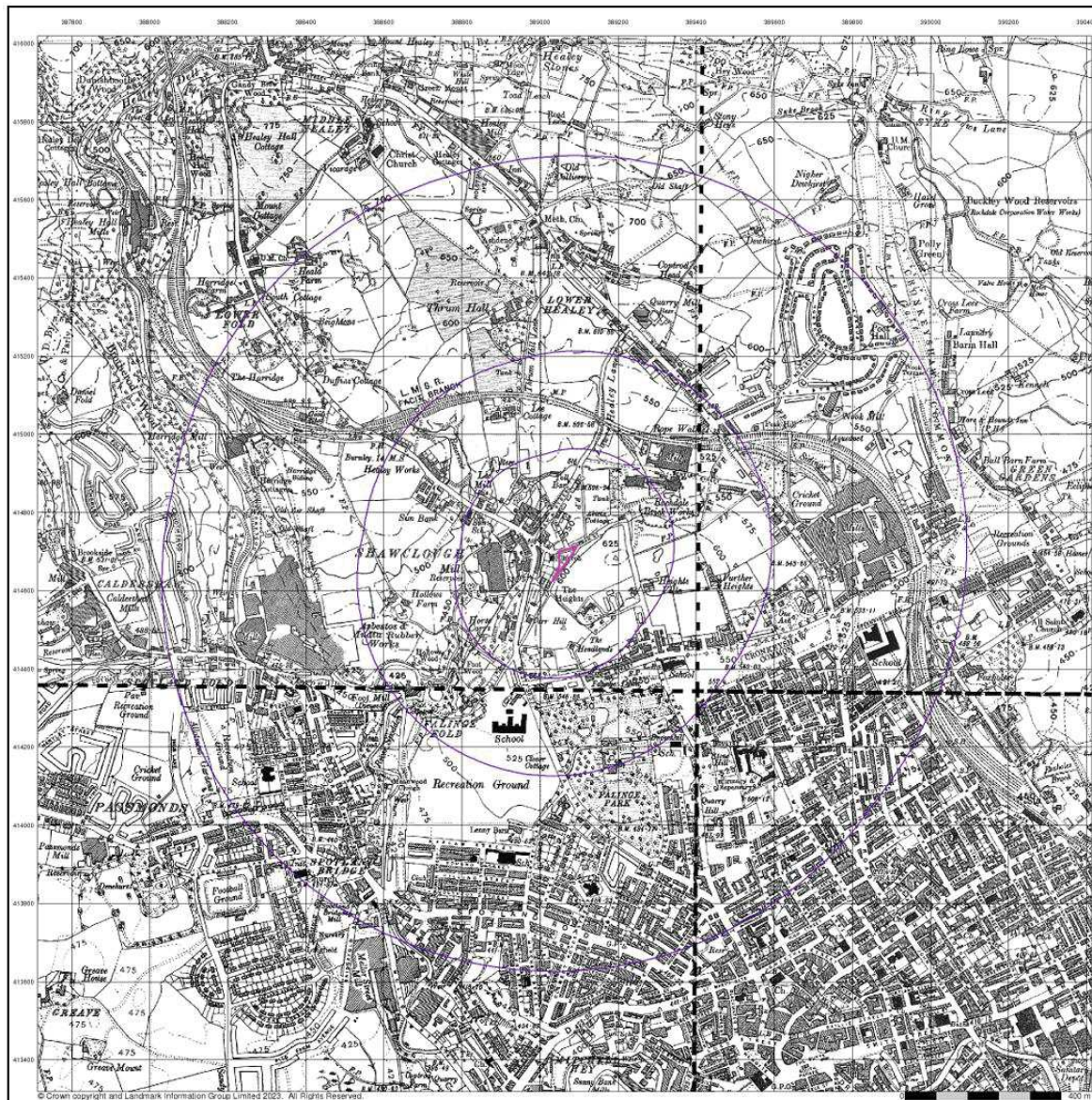
### Site Details

land at Rudman St, Shawclough, ROCHDALE, OL12 6LJ

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# Envirocheck<sup>®</sup>

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## Lancashire And Furness

Published 1938

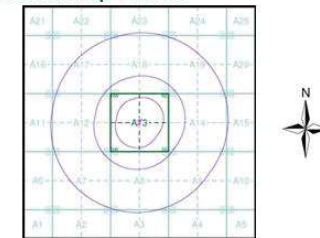
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)

|                           |                           |
|---------------------------|---------------------------|
| 080SE<br>1938<br>1:10,560 | 081SW<br>1938<br>1:10,560 |
| 080NE<br>1938<br>1:10,560 | 080NW<br>1938<br>1:10,560 |

## Historical Map - Slice A



## Order Details

Order Number: 316125844\_1\_1  
Customer Ref: tjba-250823-00  
National Grid Reference: 389060, 414670  
Slice: A  
Site Area (Ha): 0.14  
Search Buffer (m): 1000

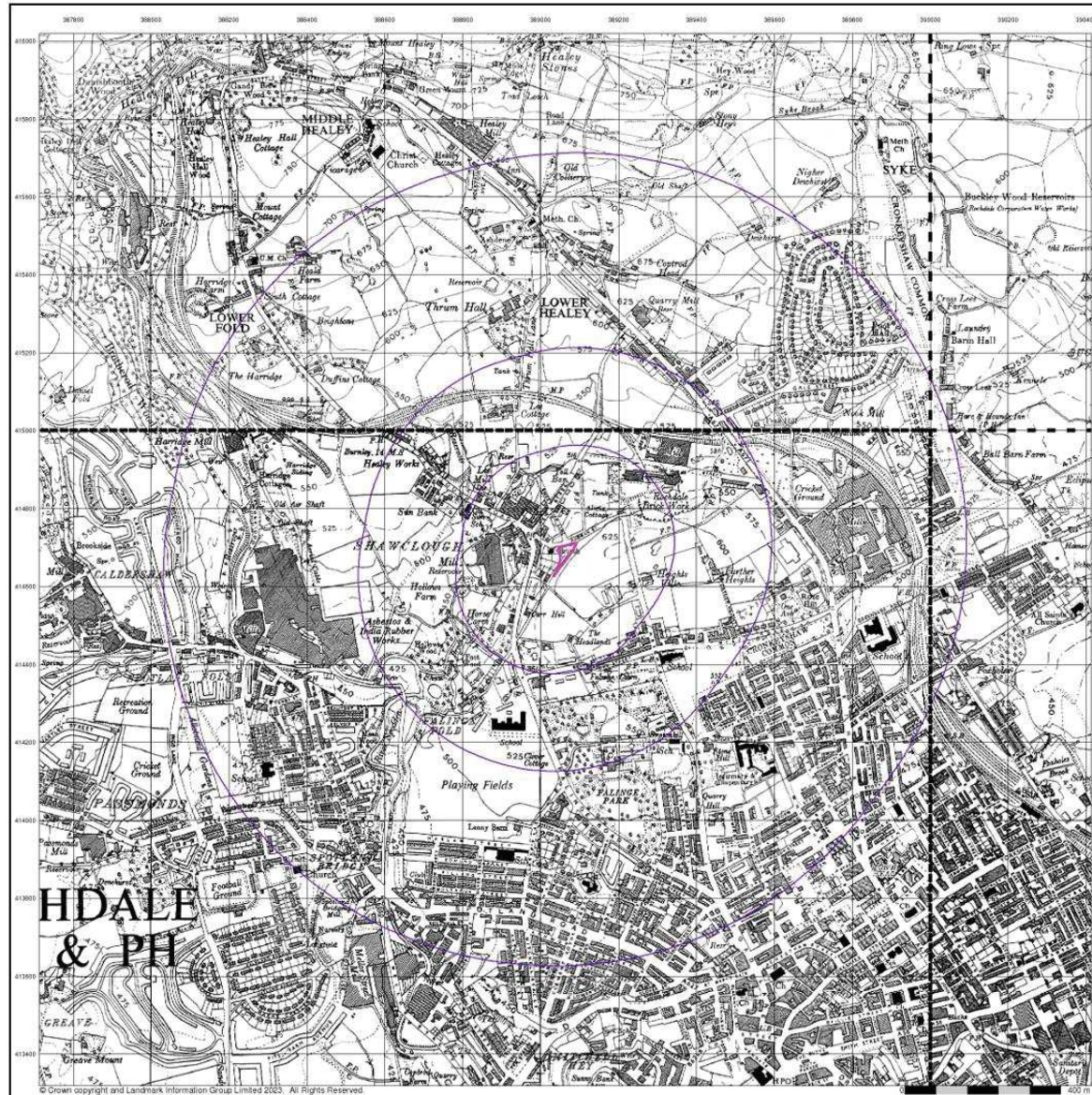
## Site Details

land at Rudman St, Shawclough, ROCHDALE, OL12 6LJ

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## Ordnance Survey Plan

Published 1956

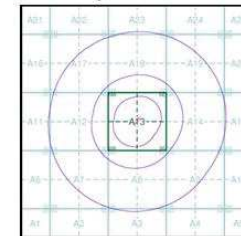
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)

|          |          |
|----------|----------|
| SD91NE   | SD91NW   |
| 1956     | 1956     |
| 1:10,560 | 1:10,560 |
| SD91SE   | SD91SW   |
| 1956     | 1956     |
| 1:10,560 | 1:10,560 |

## Historical Map - Slice A



## Order Details

Order Number: 316125844.1.1  
 Customer Ref: tjba-250823-00  
 National Grid Reference: 389060, 414670  
 Slice: A  
 Site Area (Ha): 0.14  
 Search Buffer (m): 1000

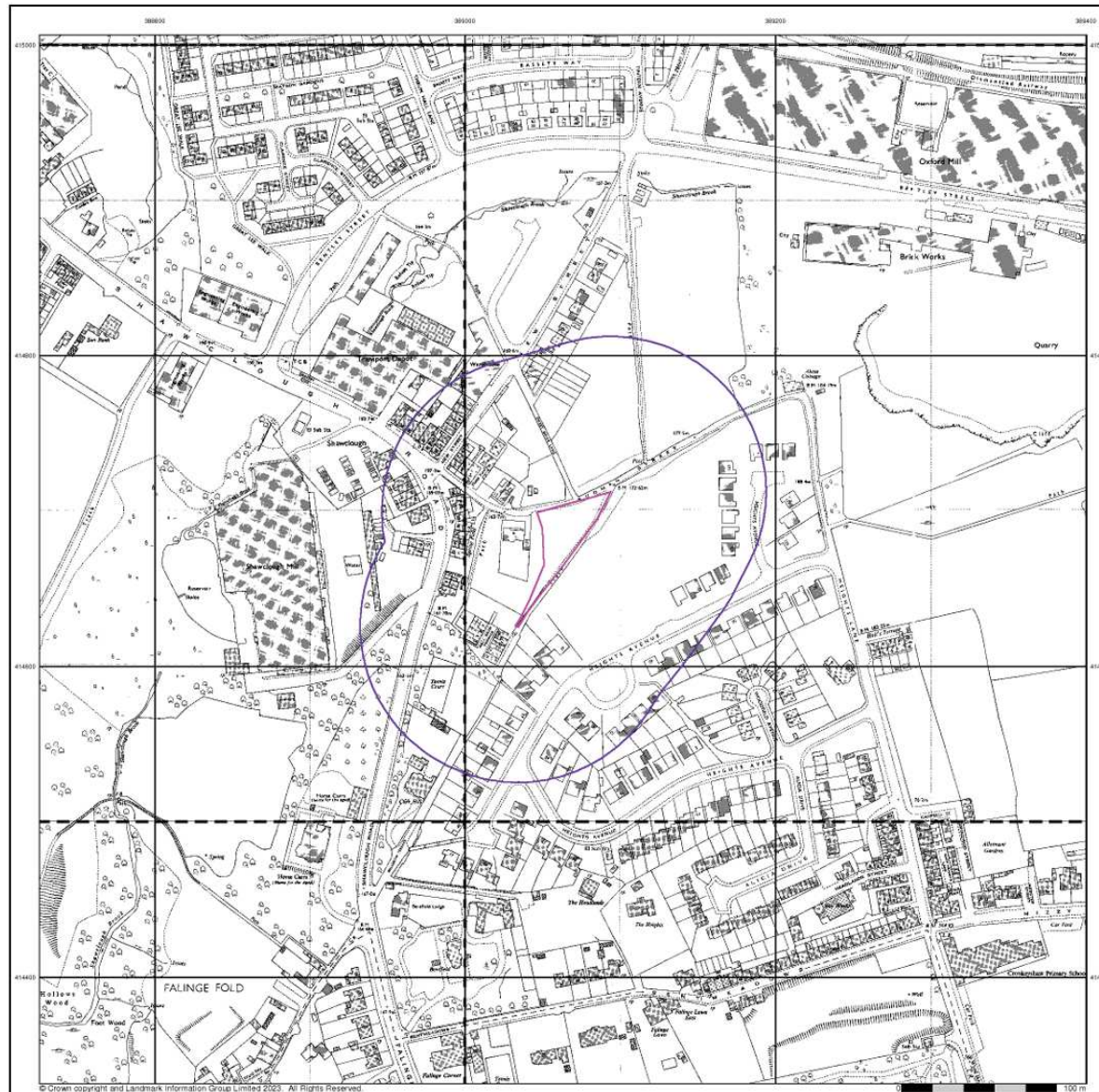
## Site Details

land at Rudman St, Shawclough, ROCHDALE, OL12 6LJ

Landmark®  
 LANDMARK INFORMATION GROUP

Tel: 0844 884 9952  
 Fax: 0844 884 9951  
 Web: www.envirocheck.co.uk

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**Envirocheck®**

● LANDMARK INFORMATION GROUP®

## Ordinance Survey Plan

Published 1968 - 1977

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)

|          |         |
|----------|---------|
| SD8815SE | SD8915S |
| 1970     | 973     |
| 1:1.250  | 1:1.250 |

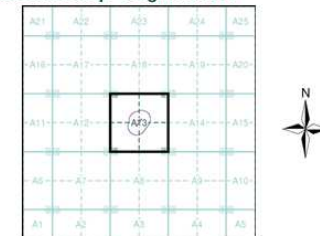
  

|          |         |
|----------|---------|
| SD8814NE | SD8914N |
| 1970     | 970     |
| 1:1.250  | 1:1.250 |

|          |         |
|----------|---------|
| SD8814SE | SD8914S |
| 1977     | 968     |
| 1:1.250  | 1:1.250 |

## Historical Map - Segment A13



## Order Details

Order Number: 316125844\_1\_1  
Customer Ref: tjba-250823-00  
National Grid Reference: 389060, 414670  
Slice: A  
Site Area (Ha): 0.14  
Search Buffer (m): 100

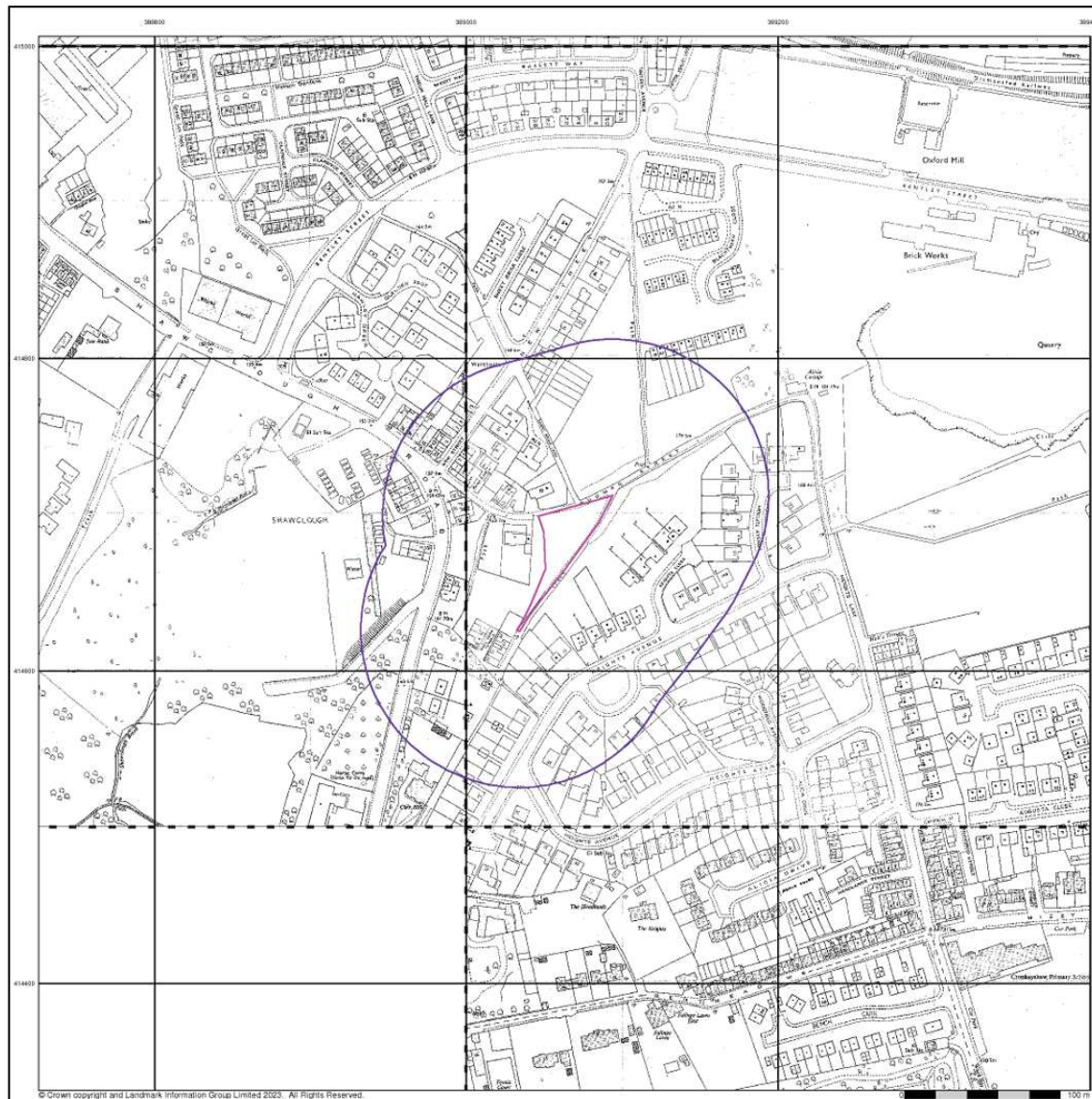
### Site Details

land at Rudman St, Shawclough, ROCHDALE, OL12 6LJ

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Fax: 0844 844 9951  
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## Additional SIMs

Published 1978 - 1989

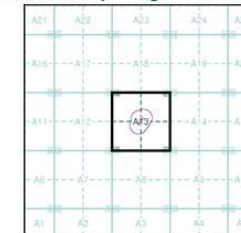
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

SD881558SD89155W  
1981 1982  
1:1,250 1:1,250  
SD88148SD8914W  
1989 1978  
1:1,250 1:1,250  
SD89145W  
1979  
1:1,250

## Historical Map - Segment A13



## Order Details

Order Number: 316125844\_1\_1  
Customer Ref: tjba-250823-00  
National Grid Reference: 389060, 414670  
Slice: A  
Site Area (Ha): 0.14  
Search Buffer (m): 100

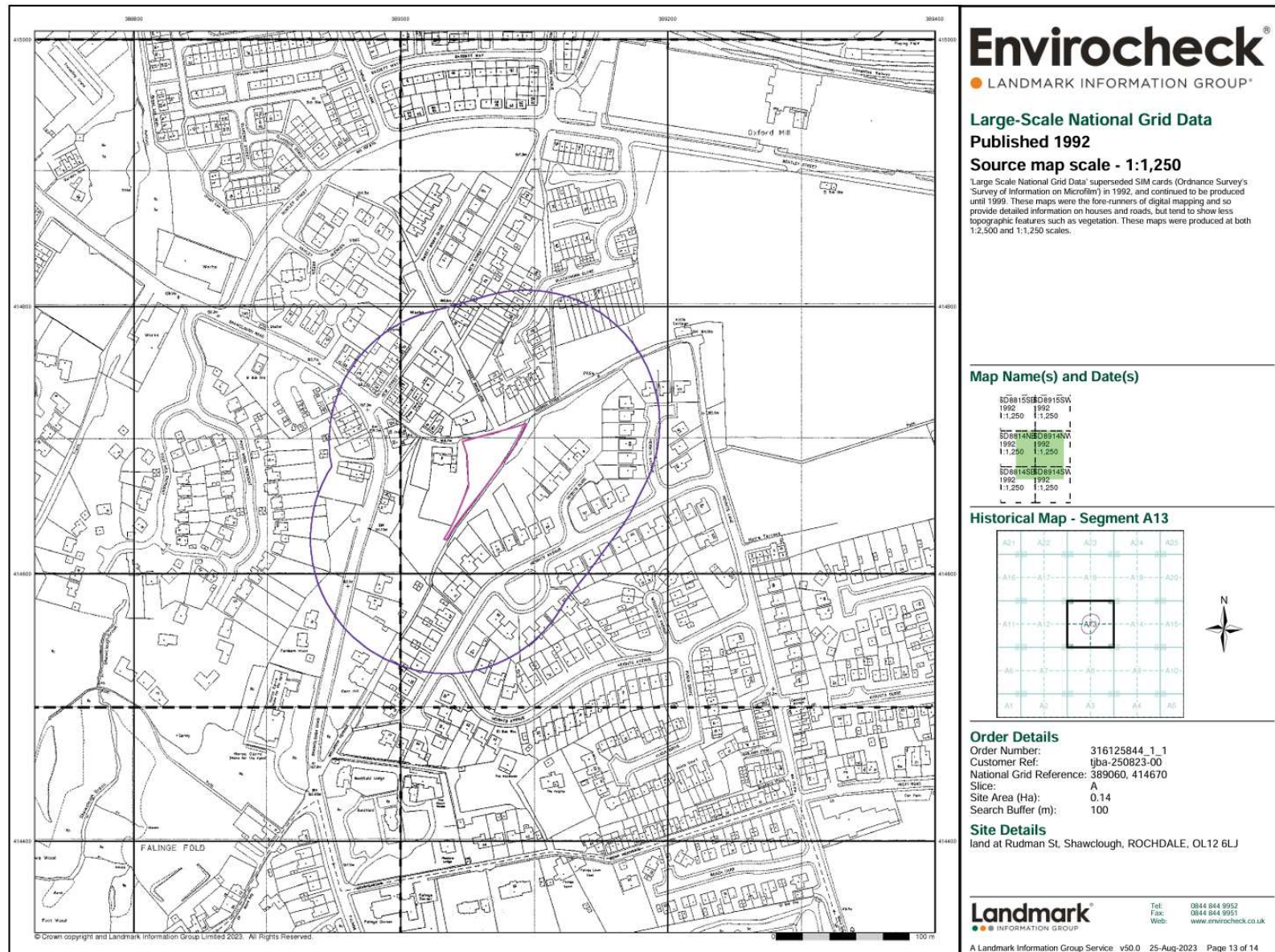
## Site Details

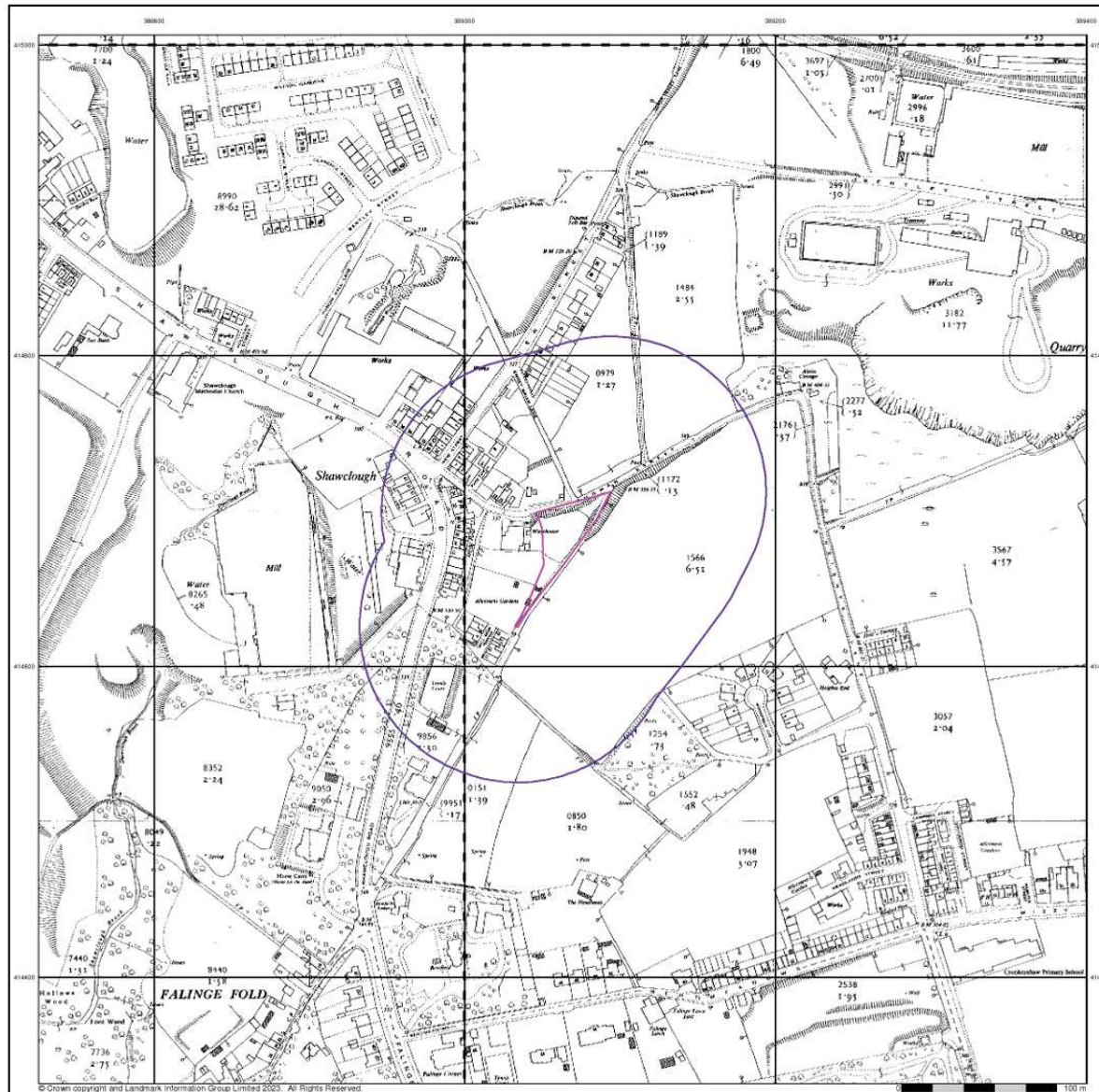
land at Rudman St, Shawclough, ROCHDALE, OL12 6LJ

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## Ordnance Survey Plan

Published 1960

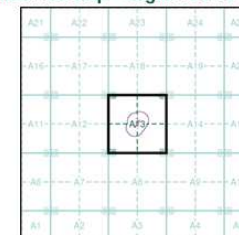
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)

|        |        |
|--------|--------|
| SD8815 | SD8915 |
| 1960   | 1960   |
| 12,500 | 12,500 |
| SD8814 | SD8914 |
| 1960   | 1960   |
| 12,500 | 12,500 |

## Historical Map - Segment A13



## Order Details

Order Number: 316125844\_1\_1  
 Customer Ref: tjba-250823-00  
 National Grid Reference: 389060, 414670  
 Slice: A  
 Site Area (Ha): 0.14  
 Search Buffer (m): 100

## Site Details

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