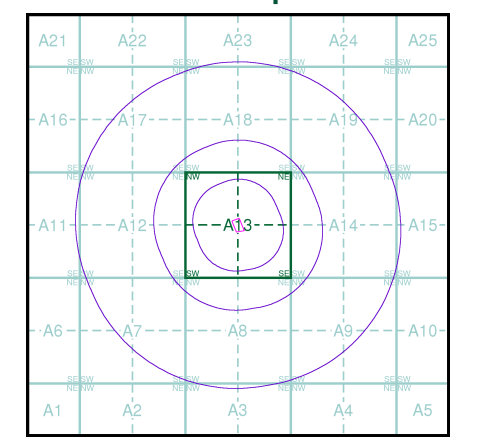


- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point

- OS Water Network Data**
- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

- Contours (height in meters)**
- Standard Contour 105
- Master Contour 100
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 365083728_1_1

Customer Ref: 4383

National Grid Reference: 512480, 185340

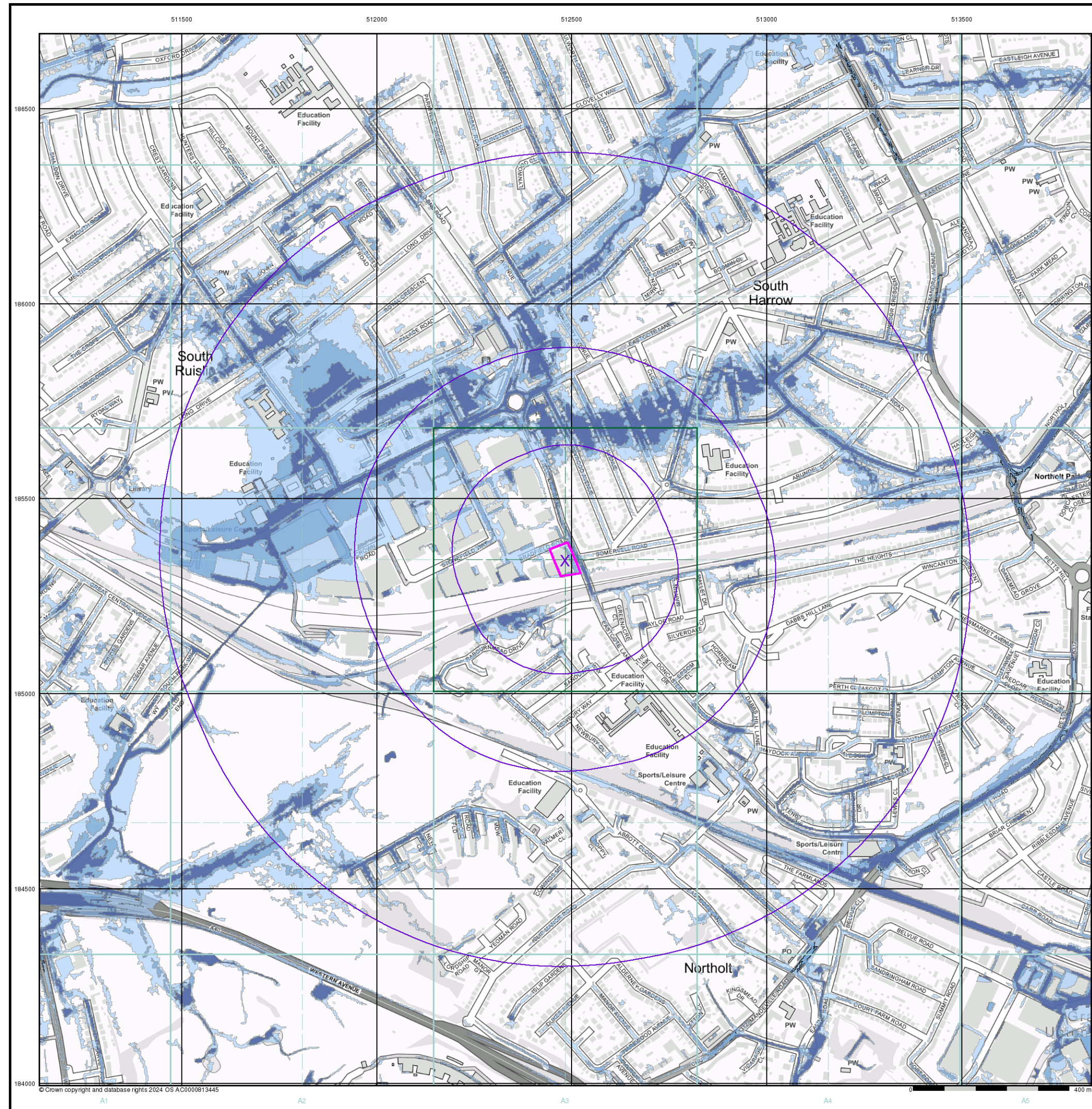
Slice: A

Site Area (Ha): 0.41

Search Buffer (m): 1000

Site Details

Safestore, 1, Bradfield Road, RUISLIP, HA4 0NU



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

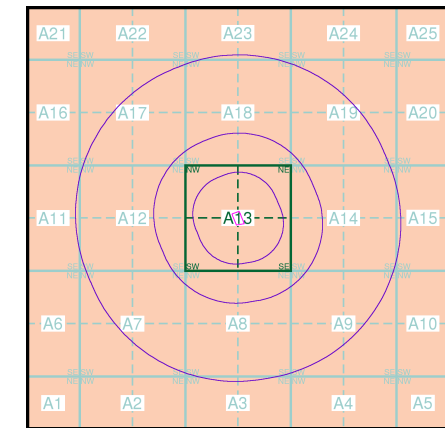
Risk of Flooding from Surface Water

- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

- See the suitability map below
- National to county
 - County to town
 - Town to street
 - Street to parcels of land
 - Property

E/NRW Suitability Map - Slice A



Order Details

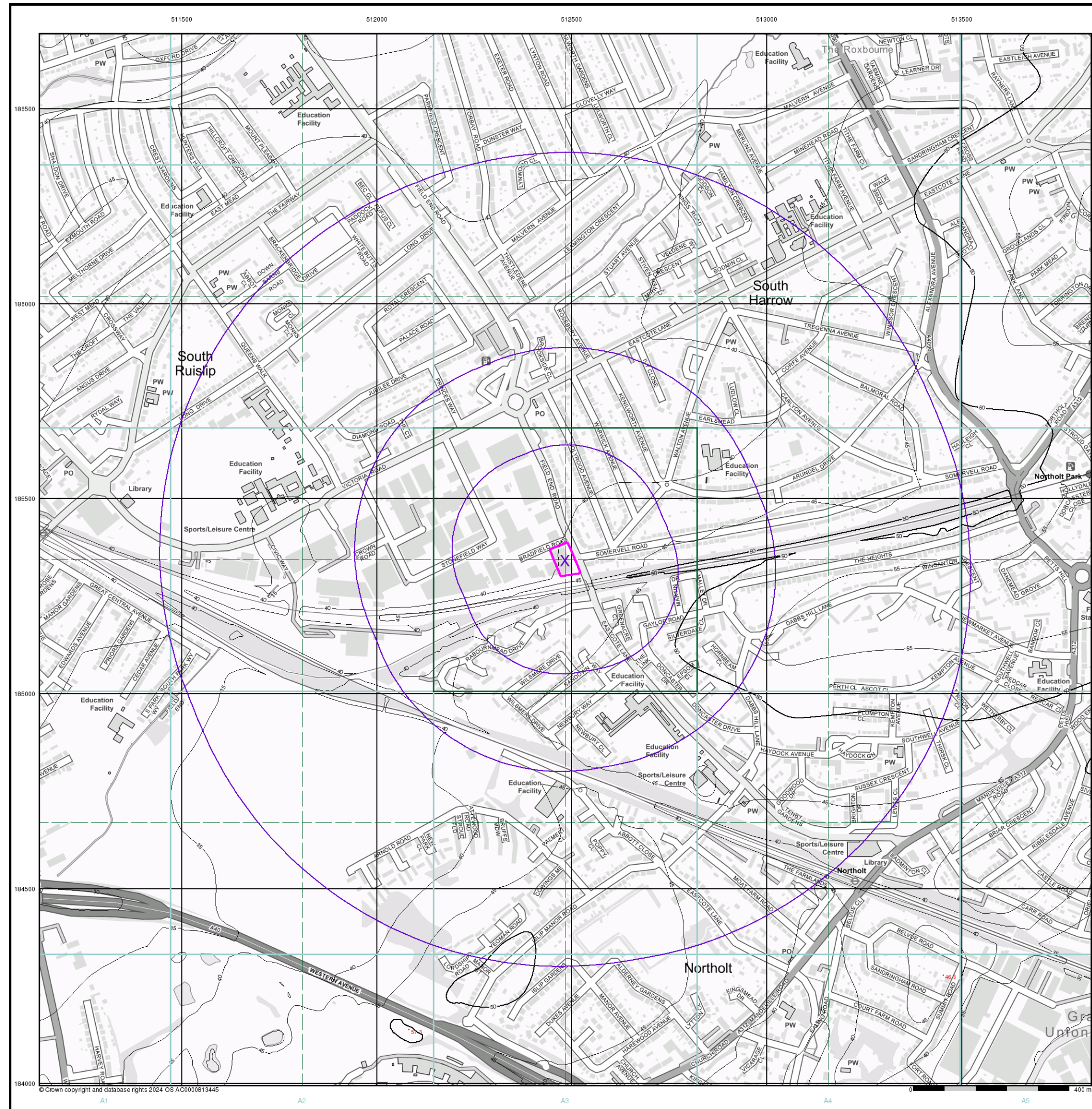
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Customer Ref: 4383
National Grid Reference: 512480, 185340
Slice: A
Site Area (Ha): 0.41
Search Buffer (m): 1000

Site Details

Safestore, 1, Bradfield Road, RUISLIP, HA4 0NU



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



Geo²TM

WFD Surface Waters Map

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

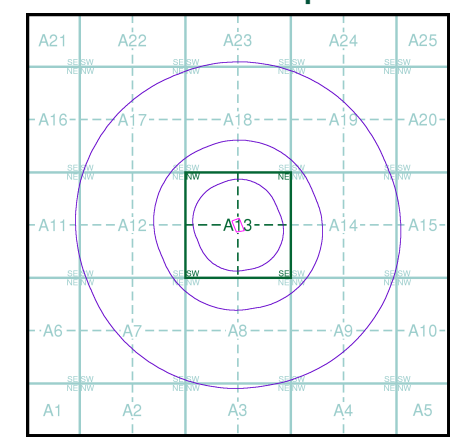
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

- Standard Contour 95
- Master Contour 100
- Spot Height 167.3
- Mean Low Water
- Mean High Water

WFD Surface Waters Map - Slice A



Order Details

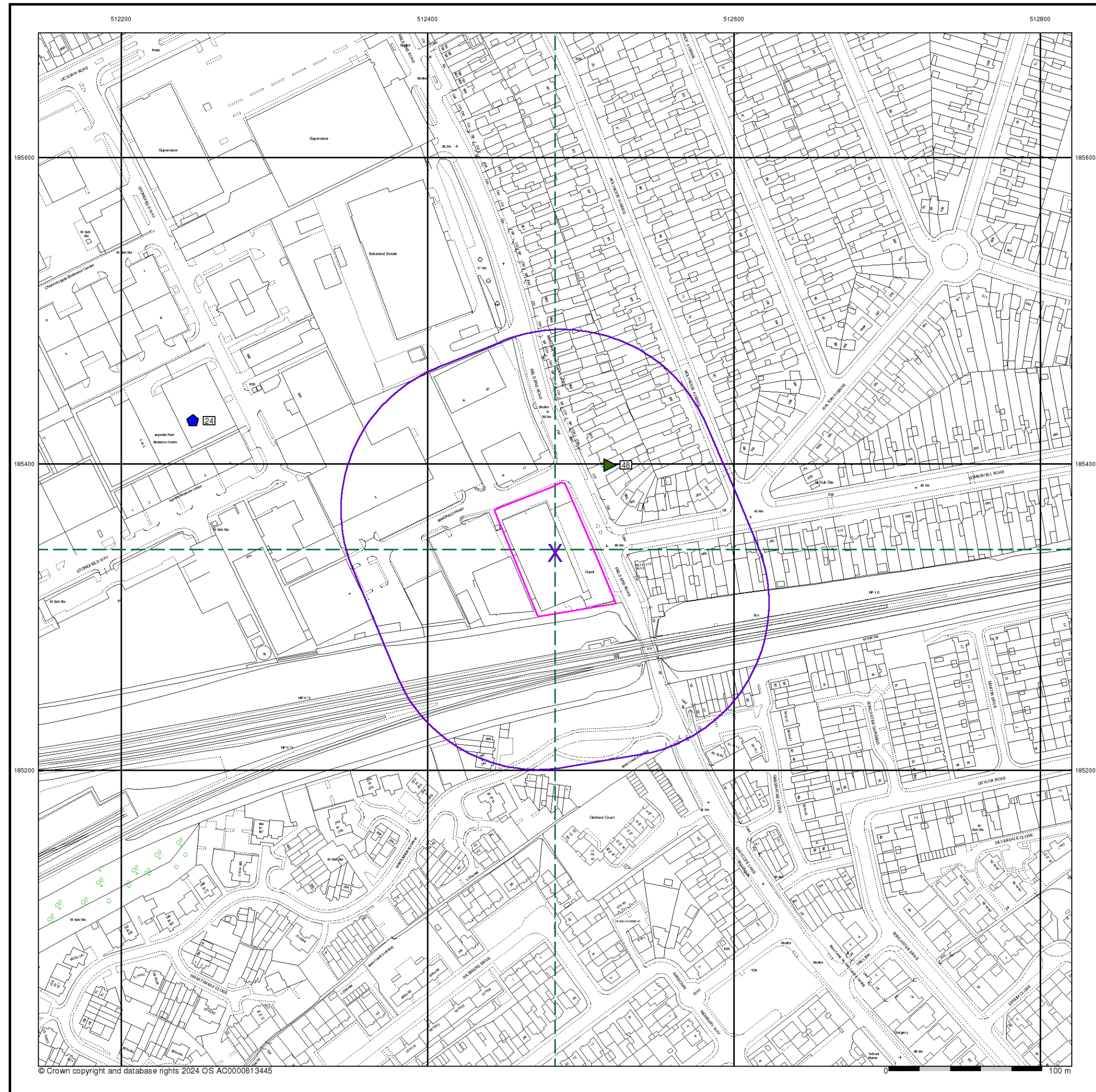
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Customer Ref: 4383
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Slice: A
Site Area (Ha): 0.41
Search Buffer (m): 1000

Site Details

Safestore, 1, Bradfield Road, RUISLIP, HA4 0NU

Landmark[®]
INFORMATION GROUP

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



- ### General

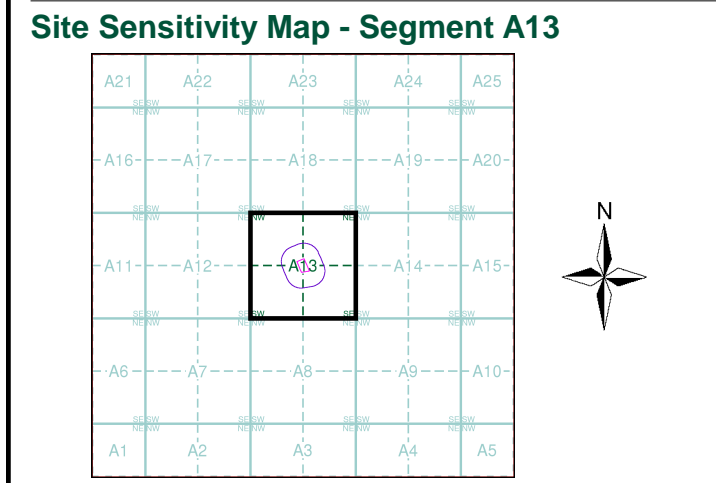
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
- ### Agency and Hydrological

 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Historical Prosecutions
 - Prosecutions
 - Registered Radioactive Substance
 - River Network or Water Feature
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- ### Waste

 - BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- ### Hazardous Substances

 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- ### Geological

 - BGS Recorded Mineral Site



Order Details

Order Number: 365083728_1_1
Customer Ref: 4383
National Grid Reference: 512480, 185340
Slice: A
Site Area (Ha): 0.41
Plot Buffer (m): 100

Site Details

Safestore, 1, Bradfield Road, RUISLIP, HA4 0NU



Appendix D – UXO Risk Assessment

Stage 1 Preliminary Explosive Ordnance Risk Assessment

Project: Safestore, South Ruislip

Client: Geo2

Doc Ref: PRA.10226.24

Issue Date: 11th December 2024

| Conclusion(s) | | |
|---------------------|--|--|
| GI works | EO (explosive ordnance) poses a Low Risk to the proposed works. | |
| Post-GI Development | There is a potentially elevated likelihood of EO encounter during the proposed works. | |
| Recommendation(s) | | |
| GI works | No further action. | To receive a Stage 2 DRA quotation: info@impartialassessments.com |
| Post-GI Development | Stage 2 Detailed Risk Assessment to elucidate the risk. | +44 (0) 207 126 8164 |

The Site



British National Grid Ref:
TQ 12483 85349

Site Address:
Bradfield Road
Victoria Retail Park
South Ruislip
London Borough of Hillingdon
HA4 0NU

Note, the Safestore, South Ruislip site will subsequently be referred to as the 'Site'.

| Introduction | |
|------------------------|--|
| Introduction | <p>A preliminary risk assessment (PRA) is the first stage of the UXO (unexploded ordnance) / EO (explosive ordnance) risk management process. It is a qualitative screening exercise to assess the likelihood of encountering EO during ground works at a given site.</p> <p>The assessment considers the basic factors that affect the likelihood of buried EO being present at a given site today and the likelihood it will be encountered during the proposed works.</p> |
| Assessment methodology | <p>This desktop risk assessment has been researched and written by a dedicated EO risk analyst and is produced in accordance with CIRIA C681 (2009) and C785 (2019) guidelines on UXO risk assessment. As such, the assessment considers the following five factors:</p> <ul style="list-style-type: none"> ▶ Site location and Site history / occupancy ▶ Wartime UXO: German bombing, German shelling, and British and Allied anti-aircraft weaponry fire ▶ Domestic military activity: British and Allied armed forces activity during wartime and peacetime ▶ Mitigating Factors ▶ Extent of the proposed ground works <p>Note, the likelihood of EO initiation / detonation and consequence(s) of EO initiation / detonation are assessed at Stage 2, not Stage 1.</p> <p>The numerical preliminary risk rating calculation included within this PRA is a unique Impartial Assessments Ltd (IAL) methodology that makes for a transparent and accountable risk assessment process.</p> |
| Information sources | <p>This assessment draws on preliminary research utilising information sources immediately available to IAL at the time of writing. The availability of historical information will differ depending on the Site's location. As an absolute minimum, all IAL Stage 1 PRAs involve analysis of recent aerial photography, historic OS mapping, original WW2 bombing density records and our PIEO (potential indicators of explosive ordnance) GIS map. The PIEO map plots our vast database of locations and incidents of interest.</p> |
| Stage 1 objective | <p>The main objective of a Stage 1 PRA is to confirm whether or not further research is required to verify the EO risk. If a low risk cannot be confirmed at Stage 1, a Stage 2 Detailed Risk Assessment (DRA) will be recommended.</p> |

| The Site and Proposed Works | | |
|--|------------------------|--|
| Current Site Occupancy | | A post-WW2 constructed warehouse type building and associated hardstanding. |
| Historic Site occupancy (OS maps review) | Pre-WW1 | Farmland. |
| | Interwar / Pre-WW2 | Unchanged. |
| | Post-WW2 (circa 1950s) | Unchanged. |
| Proposed Works | | <p>Two extensions to the existing building are planned, in the north and southeast. Various shallow mechanical excavations are assumed and the possible requirement for piled foundations cannot be discounted at this stage.</p> <p>Prior to development a GI will be undertaken, comprising four window sampler boreholes to 5.0m bgl.</p> |



Enemy Action during WW1

| | | |
|-----------------------|---|----|
| German Aerial Bombing | Did any bombs fall within 1km of the Site? | No |
| German Naval Shelling | Did any warship artillery shells fall within 1km of the Site? | No |

Enemy Action during WW2

| German aerial bombing | | | |
|-----------------------|---------------------------------------|---|--|
| Indicator | | Assessment | |
| Bombing Targets | Confirmed by the Luftwaffe | Original Luftwaffe target records identify RAF Northolt airfield (~1.78km west of the Site) as the closest bombing target. | |
| | Unconfirmed secondary / opportunistic | Main railway line immediately south of the Site. | |
| Bombing Density | The Administrative Area | What bombing density was experienced by Ruislip & Northwood Urban District (within which the Site was located at the time)? | Moderate bombing density (38.3No. ‘iron’ bombs / 1,000 acres) |
| | | Note, this is the official government bomb census figure. ‘Iron’ bomb refers to large (>40kg) thick-steel-cased bombs (most of which were high explosive filled). The bomb census did not report the numbers of small (1kg / 2kg) incendiary bombs (IBs), millions of which were dropped on the UK. It should also be noted that IAL’s previous research has proven this record type inaccurate on a number of occasions. | |
| | The Study Area | What is the likelihood that the figure above (for the administrative area as a whole) accurately represents the immediate study area? | High - the Site was situated within 110m of two other administerial areas, both of which experienced moderate bombing densities. |
| | | Note, the bombing density figure for a whole administrative area is not always a good indication of the bombing density at a given site. Within larger administrative areas, particularly rural districts, bombing density may be skewed by the presence of a single heavily bombed target, e.g. a military airfield. | |
| Air Raid Frequency | | An original bomb census record of air raid locations throughout Greater London references three Luftwaffe air raids affecting Northolt and 25No. affecting Ruislip. | |
| | | Note, it should be noted that IAL’s previous research has proven this record type inaccurate on a number of occasions. | |
| Bombing Decoy Sites | | Were any British bombing decoy sites installed within 3km of the Site? | No |
| Bomb Damage | | Has initial (partial) research located evidence of potential bomb damage (e.g. OS-mapped ‘ruins’, clearance, redevelopment) in the vicinity of the Site? | No |
| Bomb Strikes | | Has initial (partial) research located evidence of a bomb strike(s) within 500m of the Site? | Yes |
| | | Note, analysis of all Site-specific original bombing incident records is beyond the scope of a Stage 1 PRA. Some such records are unavailable within the time frame of a Stage 1 PRA. | |



German land-based (French coast) artillery shelling

Is the Site located within one of the areas of Kent that experienced cross-Channel artillery bombardment?

No

Domestic Military Activity

| EO Contamination Source | | Assessment |
|--|--|---|
| Anti-Aircraft (AA) Artillery Fire | During WW1 | Six static AA gun batteries active within firing range of the Site and there is a low likelihood of mobile AA gun deployments to the wider study area. |
| | | The German Luftstreitkräfte were frequently active over central London. However, this small number of AA guns probably did not expend a significant quantity of ammunition. |
| | | Note, many AA guns were mounted on vehicles so that they could be moved between vulnerable points. The number of active guns within firing range of a given site could therefore have been higher. |
| | During WW2 | 15No. heavy (HAA) gun batteries were positioned within firing range of the Site. |
| | | At least three sites within autocannon firing range of the Site were protected by light anti-aircraft (LAA) guns. |
| | | No U.P. rocket projector (ZAA) batteries were active within firing range of the Site. |
| | | As German Luftwaffe activity in the region was frequent and intense, these guns probably expended a significant volume of ammunition. |
| | | Notes. Numerous LAA gun deployments (in defence of vulnerable points) were only temporary. During the early years of the conflict many static batteries were not armed due to a lack of available weapons. In the summer of 1944, there were large-scale inland deployments of LAA and HAA guns to parts of Kent, East Sussex and the Thames Estuary. |
| Military Bases / Installations | | Were / are there any British or Allied nation sites located within a significant distance of the Site? |
| | | RAF South Ruislip - USAF site (>120m west) |
| Military Training Areas / Weapons Ranges | | Were / are there any British or Allied nation sites located within a significant distance of the Site? |
| | | No |
| Munitions or Explosives Factories | | Were / are there any such sites located within a significant distance of the Site? |
| | | No |
| Munitions Storage Depots | | Were / are there any such sites located within a significant distance of the Site? |
| | | Northolt Park WW2 Army Depot (>80m southeast) |
| Wartime Requisition | | What is the likelihood that the Site was requisitioned by the government for temporary (wartime) military use? |
| | | Moderate |
| Defensive Measures and Fortifications | Did the Site occupy an area that was substantially fortified against the anticipated German invasion of WW2 (or to a lesser extent, WW1)? | |
| | | |
| | Has initial research highlighted any fortifications or other defence measures within 1km of the Site? | |
| | | |
| | Could defensive minefields have been laid in the vicinity of the Site during WW2? | |
| | | |
| | Could WW2 Home Guard (HG) soldiers of the local unit (either the 13 th , 15 th , 16 th , or 17 th Middlesex Battalions) conceivably have utilised the Site for any potentially significant activities? | |
| | | |

Key Findings and Risk Factor Scoring

| | | | | | |
|--------------------------------|---------------------|--|---|----------|----------|
| Likelihood of EO Contamination | German UXO | Is the study area known to have experienced or probably did experience an elevated WW1 and / or WW2 bombing density? | | Yes | |
| | | Did the Luftwaffe earmark any targets within 3km of the Site for attack? | | Yes | |
| | | Would the study area have been vulnerable to small-scale random / indiscriminate bombing? i.e. due to proximity of heavily bombed urban area or an individual / isolated primary target. | | n/a | |
| | | Evidence of an officially abandoned unexploded bomb (UXB) in the vicinity? | | No | |
| | | Has preliminary research identified evidence of bombing within 500m of the Site, direct evidence (e.g. recorded bomb strike) or indirect evidence (e.g. structural damage or bomb crater)? | | Yes | |
| | | Did (or could) the Site boundary have encompassed risk elevating ground cover during WW1 and / or WW2? | | Unlikely | |
| | | Could part(s) of the Site have been neglected / inaccessible during WW1 and / or WW2? | | Unlikely | |
| | | Additional observations / considerations. | Although at least four bomb strikes occurred within 400m of the Site, the Site appears to have been in use as grazing pasture during WW2. Any large UXB entry hole is unlikely to have been repeatedly overlooked in such ground conditions. Note, detailed research could identify additional local bombing incidents. | | |
| | British / Allied EO | Was AA weapon ammunition expenditure significantly elevated within firing range of the Site during WW1 and / or WW2? | | | Yes |
| | | Could an unexploded AA projectile strike have gone undetected / unreported on Site, due to risk elevating wartime occupancy / ground conditions? | | | Unlikely |
| | | Has evidence of wartime or peacetime military activity affecting the Site been identified? | | | Possibly |
| | | Does the Site's location / position / occupancy raise the possibility of temporary wartime military activity affecting the Site? e.g. invasion defences activity or military requisition. | | | Unlikely |
| | | Could HG soldiers have intentionally buried / discarded live ammunition on Site during WW2? | | | Unlikely |
| | | Additional observations / considerations. | The Site was separated from the WW2 army depot by a main railway line and associated embankments. Consequently, any potentially significant depot activities are highly unlikely to have affected the Site. RAF South Ruislip was a post-WW2 command (administrative) facility, posing no associated EO contamination threat. | | |
| Scoring - Contamination Factor | | | | 2 | |

| | | | |
|----------------------------|---|--|-----|
| Likelihood of EO Remaining | How many cycles of redevelopment have affected the area of the proposed ground works? | | One |
| | Does the Site currently contain any greenfield land or WW2-era brownfield land? | | No |
| | Does undisturbed WW2-era soil / made ground / geology (that could be EO contaminated) remain at shallow depths (<2.0m bgl) on Site today? | | Yes |



| | | |
|--|--|------------|
| | Does undisturbed WW2-era geology (that could be German UXB contaminated) remain at deeper depths (>2.0m bgl) on Site today? | Yes |
| | Has evidence been found confirming that the U.K armed forces have carried out EO clearance (EOC) activities on Site, recently or historically? | No |
| | If no evidence of EOC activity affecting the Site is immediately available, what is the likelihood that parts of the Site have been surveying / searched for EO by the U.K armed forces? | Low |
| | Scoring - Risk Mitigation Factor | 3 |

| | | |
|-------------------------|--|-------------------------|
| Likelihood of Encounter | Will the proposed ground works disturb the zone of potential EO contamination (ZPC)? | Yes |
| | To what degree (volume of soil / geology) will the proposed ground works disturb the ZPC? | Low and Moderate |
| | Are higher risk intrusive methodologies planned (e.g. boreholes, piling, vibro stone columns)? | Yes |
| | Will the / any proposed GI works disturb a significantly lower volume of the ZPC than the / any post-GI development ground works, or vice versa? | Yes |
| | Scoring - Proposed Works Factor (GI) | 2 |
| | Scoring - Proposed Works Factor (Post-GI Development) | 3 |

Preliminary (Indicative) Risk Calculation

The preliminary risk rating calculation involves three factors:

- ▶ The likelihood of EO contamination (Site location and history)
- ▶ The likelihood of EO remaining on Site today (the extent of any risk mitigating factors)
- ▶ The likelihood of EO encounter during the proposed works (the type, volume and depth of proposed ground disturbance)

Each factor is numerically rated (**1 to 5**). For 'likelihood of EO contamination' and 'likelihood of EO encounter', **one** is the lowest likelihood. For 'likelihood of EO remaining', **five** is the lowest degree of risk mitigative activities.

When added together, a final score of **eight or more** triggers the recommendation of a Stage 2 DRA.

| Proposed Works | Contamination | Risk Mitigation | Proposed Works | Risk Rating Calculation | |
|---------------------|--------------------------|--------------------------|--------------------------|-------------------------|----------|
| | 1 = lowest 5 = highest | 1 = highest 5 = lowest | 1 = lowest 5 = highest | | |
| GI works | 2 | 3 | 2 | 2+3+2= | 7 |
| Post-GI Development | 2 | 3 | 3 | 2+3+3= | 8 |

Further research is required to educate the risk in relation to the development phase works only.

A Stage 2 Detailed EO Risk Assessment is recommended prior to the development phase works commencing.



IAL has exercised all reasonable care, skill and due diligence in preparing this risk assessment. However, a low-risk conclusion at Stage 1 PRA does not mean 'no risk'. For example, it is impossible to identify locations where members of the public have previously buried unwanted (often inherited) EO on private land (such as residential back gardens). Such EO contamination is not uncommon.

IAL cannot be held responsible for any inaccuracies or omissions within any records / information relied upon to carry out this PRA.

IAL is not liable for any relevant records / information that has become available subsequent to this PRA's issue date.

IAL cannot accept liability for subsequent changes to Site conditions that could affect the risk level.

At the time of writing, the relevant UK construction industry guidelines on explosive ordnance risk assessment (CIRIA) were adhered to. Subsequent revisions to these guidelines or new guidelines / legislation may render part(s) of this report obsolete. Reliance on the findings of this report must therefore be limited accordingly. Such reliance must be based on the whole report and not on extracts which may lead to incomplete or incorrect conclusions when taken out of context.

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Registered in England & Wales under Company Number: 13091178



Appendix E – Borehole Logs and SPT Certificate



Key to exploratory hole symbols and abbreviations

SAMPLE TYPES

| | | |
|------------------------------|---------------------------|-----------------------------------|
| ACM - Asbestos sample | AMAL - Amalgamated sample | B - Bulk disturbed sample |
| BLK - Block sample | C - Core sample | CBR - CBR test sample |
| D - Disturbed sample | ES - Environmental sample | EW - Environmental water sample |
| G - Gas sample | J - Jar sample | L - Liner sample |
| TW - Pushed thin wall sample | U - Undisturbed sample | UT - Undisturbed thin wall sample |
| W - Water sample | | |

IN-SITU TESTS

| | | |
|------------------------|----------------------------------|---------------------------------|
| HV - Hand shear vane | HV(r) - Hand shear vane residual | PID - Photo ionisation detector |
| PP - Hand penetrometer | SPT - Standard penetration test | SPT(C) - SPT using cone |

GROUNDWATER



Groundwater strike



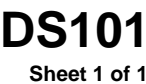
Groundwater rest level

ROTARY CORE DETAILS

| | | |
|-------------------------------|-------------------------------|------------------------------------|
| TCR - Total core recovery (%) | SCR - Solid core recovery (%) | RQD - Rock quality designation (%) |
| FI - Fracture index | NI - Non-intact core | AZCL - Assumed zone of core loss |

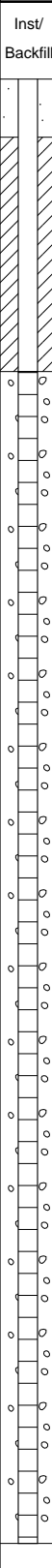
































































LEGEND

| | | | | | | | |
|--|---------------------|--|-----------|--|--------------|--|-----------------|
| | Topsoil | | Clay | | Chalk | | Sand backfill |
| | Peat | | Silt | | Breccia | | Gravel backfill |
| | Made ground | | Sand | | Conglomerate | | Arisings |
| | Concrete | | Gravel | | Metamorphic | | Bentonite |
| | Wood | | Cobbles | | Igneous | | Concrete |
| | Brick | | Boulders | | | | Grout |
| | Bituminous material | | Mudstone | | | | Plain pipe |
| | Gypsum | | Siltstone | | | | Slotted pipe |
| | Coal | | Sandstone | | | | |
| | Void | | Limestone | | | | |



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|---|-----------------------------|------------------------------|----------------------------------|-------------------------------|
| Hole Type DS | Easting 512463.28 | Northing 185373.10 | Ground Level (m) 39.19 | Scale 1:25 |
| Project Name Safestore, Ruislip | | Project No. 4383 | Start Date 2025-01-08 | End Date 2025-01-08 |

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|---------------|-------------------|-------------------|
| Client | Contractor | Consultant |
| Safestore | Dynamic Sampling | MOK |

| Inst/ Backfill | Water Levels | Samples and Tests | | Level (m) | Depth (thickness) (m) | Strata | | |
|---|-----------------|-------------------|---------------------|--------------|---|---|---|--------------------------|
| | | Depth (m) | Type/ Ref | | | Results | Legend | Description |
|  | | 0.50 - 0.60 | D1 | | 39.16 (0.03) 0.03 (0.21) 38.95 0.24 (0.11) 38.84 0.35 |                                                                 | MADE GROUND: Macadam. MADE GROUND: Concrete. MADE GROUND: Light brown slightly sandy angular to sub-angular fine to coarse brick GRAVEL with rare cobbles of angular brick. Sand is fine to coarse. Soft light brown occasional mottled light grey slightly silty CLAY. [LONDON CLAY FORMATION] Band of angular to sub-angular fine to medium mudstone GRAVEL. (0.60 - 0.70m) Firm light brown occasional mottled light grey slightly silty CLAY. [LONDON CLAY FORMATION] Firm light brown occasional mottled light grey silty CLAY. [LONDON CLAY FORMATION] Rare selenite crystals. (2.80 - 3.00m) Light brown slightly sandy clayey angular to sub-angular fine to medium mudstone GRAVEL. Sand is fine to coarse. [LONDON CLAY FORMATION] Firm light brown occasional mottled light grey slightly silty CLAY. [LONDON CLAY FORMATION] Rare selenite crystals. (4.00 - 5.00m) | |
| | | | 0.90 - 1.00 | ES1 | | (1.65) | | |
| | | | 1.20 1.20 - 1.30 | SPT(C) D2 | N=10 (1,2/2,2,3,3) | (1.00) | | |
| | | | 2.00 | SPT(C) | N=16 (2,2/3,4,4,5) | | | |
| | | | 2.90 - 3.00 3.00 | D3 SPT(C) | N=16 (10,5/3,4,4,5) | 37.19 3.00 (0.30) 35.89 3.30 (1.70) | | |
| | | | 4.00 4.00 - 4.10 | SPT(C) D4 | N=20 (3,4/4,5,5,6) | | | |
| | | | 5.00 | SPT(C) | N=19 (3,3/4,4,5,6) | 34.19 5.00 | | End of Borehole at 5.00m |

Remarks

1. Logged in general accordance with BS 5930:2015+A1:2020. 2. Area spot cleared for services prior to excavation by a specialist third-party contractor. 3. Hand dug pit advanced to 1.20 m bgl. 4. No olfactory or visual evidence of contamination was noted. 5. SPT Hammer Ref. 110.71, Energy Ratio 76 %. 6. Borehole terminated at 5.00 m bgl due to target depth reached. 7. Borehole installed with a 50 mm HDPE standpipe, gas bung and flush cover. 8. Groundwater encountered at 3.00 m bgl.

| Method, Plant, Stability, Dimensions | Log |
|--------------------------------------|-----|
| 0.00 - 5.00m DS Premier 110 | M |

Checked By: JCR Approved By: TH



Borehole Log

DS102
Sheet 1 of 1

| | | | | |
|------------------------------------|----------------------|-----------------------|---------------------------|------------------------|
| Hole Type DS | Easting 512475.60 | Northing 185379.10 | Ground Level (m) 39.56 | Scale 1:25 |
| Project Name Safestore, Ruislip | Project No. 4383 | | Start Date 2025-01-08 | End Date 2025-01-08 |

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|---------------------|--------------------------------|-------------------|
| Client Safestore | Contractor Dynamic Sampling | Consultant MOK |
|---------------------|--------------------------------|-------------------|

| Inst/ Backfill | Water Levels | Samples and Tests | | | Level (m) | Depth (m) (thickness) | Strata | | | | |
|-------------------|-----------------|---------------------|--------------------|--------------------|--------------|-----------------------------|--------------------------|---|---|-----|--|
| | | Depth (m) | Type/ Ref | Results | | | Legend | Description | | | |
| | | 0.50 - 0.60 | ES1 | | 39.54 | (0.02) 0.02 | | MADE GROUND: Macadam. | | | |
| | | | | | | (0.34) | | MADE GROUND: Concrete. | | | |
| | | | | | | | | | | | |
| | | 0.50 - 0.60 | ES1 | | 39.20 | (0.36) 0.40 | | MADE GROUND: Reddish brown angular brick COBBLES. | 0.5 | | |
| | | | | | 39.16 | | | Soft light brown slightly silty CLAY. [LONDON CLAY FORMATION] | | | |
| | | | | | | (0.60) | | | | | |
| | | 1.20 1.20 - 1.30 | SPT(C) ES2 | N=11 (1,1/2,3,3,3) | | 38.56 | 1.00 | | Firm light brown mottled light grey slightly silty CLAY. [LONDON CLAY FORMATION] | 1.0 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | 1.50 - 1.60 | D1 | | | | | | | 1.5 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | 2.00 2.00 - 2.10 | SPT(C) D2 | N=12 (1,2/2,3,3,4) | | | | | | 2.0 | |
| | | | | | | | | | | | |
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| | | 3.00 | SPT(C) | N=16 (3,2/3,4,4,5) | | | | | | 3.0 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | 3.50 - 4.50 | B1 | | | 36.06 | 3.50 | | Light brown sandy angular to sub-angular fine mudstone GRAVEL. Sand is fine to coarse. (3.30 - 3.35m) | 3.5 | |
| | | | | | | | | | Firm light brown occasional mottled light grey silty CLAY with rare selenite crystals. [LONDON CLAY FORMATION] | | |
| | | | | | | | | | | | |
| 4.00 | | SPT(C) | N=20 (2,3/4,5,5,6) | | | | | | 4.0 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | 4.5 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 5.00 | SPT(C) | N=19 (3,3/4,4,5,6) | | 34.56 | 5.00 | | | 5.0 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | End of Borehole at 5.00m | | | | |

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|---|--|--|----------------------------------|
| <div>Remarks</div> <div>1. Logged in general accordance with BS 5930:2015+A1:2020. 2. Area spot cleared for services prior to excavation by a specialist third-party contractor. 3. Hand dug pit advanced to 1.20 m bgl. 4. No olfactroy or visual evidence of contamination was noted. 5. SPT Hammer Ref. 110.71, Energy Ratio 76 %. 6. Borehole terminated at 5.00 m bgl due to target depth reached. 7. Borehole backfilled with arisings. 8. Borehole remained dry upon completion.</div> | <div>Method, Plant, Stability, Dimensions</div> <div>0.00 - 5.00m DS Premier 110</div> | | <div>Logger</div> <div>MOK</div> |
| | <div>Checked By: JCR Approved By: TH</div> | | |



Borehole Log

DS103
Sheet 1 of 1

| | | | | |
|------------------------------------|----------------------|-----------------------|---------------------------|------------------------|
| Hole Type DS | Easting 512502.97 | Northing 185336.27 | Ground Level (m) 39.54 | Scale 1:25 |
| Project Name Safestore, Ruislip | Project No. 4383 | | Start Date 2025-01-09 | End Date 2025-01-09 |

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|---------------------|--------------------------------|-------------------|
| Client Safestore | Contractor Dynamic Sampling | Consultant MOK |
|---------------------|--------------------------------|-------------------|

| Inst/ Backfill | Water Levels | Samples and Tests | | | Level (m) | Depth (m) (thickness) | Strata | |
|-------------------|-----------------|-------------------|--------------|----------------------|--------------|-----------------------------|--------|---|
| | | Depth (m) | Type/ Ref | Results | | | Legend | Description |
| | | 0.40 - 0.50 | ES1 | N=13 (2,2/2,3,4,4) | 39.50 | (0.04) | | MADE GROUND: Macadam. |
| | | | D1 | | | 0.04 | | MADE GROUND: Concrete. |
| | | 0.50 - 0.60 | | | 39.26 | 0.28 | | Cobbles of angular brick. (0.25 - 0.28m) |
| | | | | | | (0.22) | | MADE GROUND: Reddish brown sandy slightly clayey angular to sub-angular fine to coarse brick, wood, concrete, mudstone and quartzite GRAVEL with rare cobbles of angular brick. Sand is fine to coarse. |
| | | | | | 39.04 | 0.50 | | |
| | | | | | | (0.17) | | MADE GROUND: Greyish brown slightly gravelly sandy SILT. Gravel is angular to sub-angular fine to coarse brick, wood, concrete, mudstone and quartzite. Sand is fine to coarse. |
| | | | | | 38.87 | 0.67 | | Soft light brown occasional mottled light grey slightly silty CLAY. [LONDON CLAY FORMATION] |
| | | | | | | (0.33) | | |
| | | 1.20 - 1.30 | SPT(C) D2 | | 38.54 | 1.00 | | Firm light brown occasional mottled light grey slightly silty CLAY. [LONDON CLAY FORMATION] |
| | | | | | | | | |
| | | 2.00 - 3.00 | | | | | | |
| | | | | | | | | |
| | | 2.00 - 3.00 | SPT(C) B1 | | | (2.00) | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | 3.00 - 3.60 | | | 36.54 | 3.00 | | Rare calcite crystals. (2.90 - 3.00m) |
| | | | | | | | | Firm light brown occasional mottled light grey silty CLAY with rare selenite crystals. [LONDON CLAY FORMATION] |
| | | | | | | | | Rare shell fragments. (3.00 - 3.20m) |
| | | | | | | | | |
| | | 3.50 - 3.60 | D3 | | | | | |
| | | | | | | | | |
| | | 4.00 - 5.00 | | | | | | |
| | | | | | | | | |
| | | 4.00 - 5.00 | SPT(C) | | | (2.00) | | |
| | | | | | | | | |
| | | 5.00 - 5.00 | | | 34.54 | 5.00 | | |
| | | | | | | | | |
| | | 5.00 | SPT(C) | N=30 (3,3/4,5,11,10) | 34.54 | 5.00 | | End of Borehole at 5.00m |

| | | | | |
|---|--|--|--|----------------------------------|
| <div>Remarks</div> <div>1. Logged in general accordance with BS 5930:2015+A1:2020. 2. Area spot cleared for services prior to excavation by a specialist third-party contractor. 3. Hand dug pit advanced to 1.20 m bgl. 4. No olfactory or visual evidence of contamination was noted. 5. SPT Hammer Ref. 110.71, Energy Ratio 76 %. 6. Borehole terminated at 5.00 m bgl due to target depth reached. 7. Borehole backfilled with arisings. 8. Borehole remained dry upon completion.</div> | <div>Method, Plant, Stability, Dimensions</div> <div>0.00 - 5.00m DS Premier 110</div> | | | <div>Logger</div> <div>MOK</div> |
| | | | | |
| | <div>Checked By: JCR Approved By: TH</div> | | | |



Borehole Log

DS104
Sheet 1 of 1

| | | | | |
|------------------------------------|----------------------|-----------------------|---------------------------|------------------------|
| Hole Type DS | Easting 512512.57 | Northing 185316.35 | Ground Level (m) 39.57 | Scale 1:25 |
| Project Name Safestore, Ruislip | Project No. 4383 | | Start Date 2025-01-09 | End Date 2025-01-09 |

| | | |
|---------------------|--------------------------------|-------------------|
| Client Safestore | Contractor Dynamic Sampling | Consultant MOK |
|---------------------|--------------------------------|-------------------|

| Inst/ Backfill | Water Levels | Samples and Tests | | | Level (m) | Depth (thickness) (m) | Strata | | |
|-------------------|-----------------|---------------------|--------------|---------|---------------------|-----------------------------|--------------------|---|--------------------|
| | | Depth (m) | Type/ Ref | Results | | | Legend | Description | |
| | | 0.30 - 0.40 | ES1 | | 39.53 | (0.04) 0.04 (0.18) | | MADE GROUND: Macadam. MADE GROUND: Concrete. | |
| | | | | | 0.70 - 0.80 | ES2 | 39.35 | 0.22 (0.43) | |
| | | 1.20 | SPT(C) | | | | N=6 (1,1/1,1,2,2) | 38.92 | 0.65 (0.55) |
| | | | | | 2.00 | SPT(C) | | N=12 (2,2/2,3,3,4) | 38.37 |
| | | 2.60 - 3.70 | D2 | | | | N=18 (2,3/4,4,4,6) | | |
| | | | | | 3.00 3.00 - 3.10 | SPT(C) D1 | | N=14 (2,3/3,3,3,5) | (3.80) |
| | | 4.00 4.00 - 4.10 | SPT(C) D3 | | | | N=20 (3,4/4,5,5,6) | | |
| | | | | | 5.00 | SPT(C) | | 34.57 | 5.00 |





Hand Pit

FIP101
Sheet 1 of 1

| | | | | |
|------------------------------------|----------------------|--------------------------|---------------------------|---------------|
| Hole Type IP | Easting 512471.29 | Northing 185373.17 | Ground Level (m) 39.44 | Scale 1:25 |
| Project Name Safestore, Ruislip | Project No. 4383 | Start Date 2025-01-08 | End Date 2025-01-08 | |

| | | |
|---------------------|--------------------------------|-------------------|
| Client Safestore | Contractor Dynamic Sampling | Consultant MOK |
|---------------------|--------------------------------|-------------------|

| Inst/ Backfill | Water Levels | Samples and Tests | | | Level | Depth | Strata | | | |
|--|-----------------|-------------------|--------------|---------|-------|-----------------------------------|---|--|--|--|
| | | Depth (m) | Type/ Ref | Results | (m) | (m) <small>(thickness)</small> | Legend | Description | | |
|  | | | | | 39.34 | (0.10) |  | MADE GROUND: Light brown angular to sub-rounded fine to coarse quartzite GRAVEL. | | |
| | | | | | 39.20 | (0.14) 0.24 | | MADE GROUND: Dark brown slightly gravelly sandy SILT. Gravel is angular to sub-angular fine to coarse concrete, quartzite and siltstone. Sand is fine to coarse. | | |
| ----- End of Trial Pit at 0.24m | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | |
|---|---|------------------|------------|
| Remarks 1. Logged in general accordance with BS 5930:2015+A1:2020. 2. Area spot cleared for services prior to excavation by a specialist third-party contractor. 3. Hand dug pit advanced to 0.24 m bgl. 4. No olfactory or visual evidence of contamination was noted. 5. Hand pit terminated at 0.24 m bgl due to concrete obstruction. 6. Hand pit backfilled with arisings. 7. Hand pit remained dry upon completion. | Method, Plant, Stability, Dimensions | | Log |
| | 0.00 - 0.24m Stable | IP Hand tools | M |
| Checked By: AT Approved By: TH | | | |



Hand Pit

| | | | | |
|--------------------|-------------|------------|------------------|-------|
| Hole Type | Easting | Northing | Ground Level (m) | Scale |
| IP | 512502.90 | 185326.07 | 39.54 | 1:25 |
| Project Name | Project No. | Start Date | End Date | |
| Safestore, Ruislip | 4383 | 2025-01-09 | 2025-01-09 | |

| | | |
|-----------|------------------|------------|
| Client | Contractor | Consultant |
| Safestore | Dynamic Sampling | MOK |

| Inst/ Backfill | Water Levels | Samples and Tests | | | Level (m) | Depth (m) <small>(thickness)</small> | Strata | | |
|-------------------|-----------------|-------------------|--------------|---------|--------------|--|--------|---|-----|
| | | Depth (m) | Type/ Ref | Results | | | Legend | Description | |
| | | | | | 39.52 | (0.02) 0.02 | | MADE GROUND: Macadam. | |
| | | | | | | (0.26) | | MADE GROUND: Concrete. | |
| | | | | | 39.26 | 0.28 | | MADE GROUND: Light brown sandy angular to sub-angular fine to coarse concrete, brick, quartzite and siltstone GRAVEL with occasional cobbles of angular brick and concrete. Sand is fine to coarse. | |
| | | | | | | (0.28) | | Red angular whole brick. (0.28 - 0.29m) | 0.5 |
| | | | | | 38.98 | 0.56 | | End of Trial Pit at 0.56m | |
| | | | | | | | | | 1.0 |
| | | | | | | | | | 1.5 |
| | | | | | | | | | 2.0 |
| | | | | | | | | | 2.5 |
| | | | | | | | | | 3.0 |
| | | | | | | | | | 3.5 |
| | | | | | | | | | 4.0 |
| | | | | | | | | | 4.5 |
| | | | | | | | | | 5.0 |

| | | | |
|--|--------------------------------------|---------------|--------|
| Remarks 1. Logged in general accordance with BS 5930:2015+A1:2020. 2. Area spot cleared for services prior to excavation by a specialist third-party contractor. 3. Hand dug pit advanced to 0.56 m bgl. 4. No olfactory or visual evidence of contamination was noted. 5. Hand pit terminated at 0.56 m bgl due perched groundwater. 6. Hand pit backfilled with arisings. 7. Perched groundwater encountered at 0.50 m bgl. | Method, Plant, Stability, Dimensions | | Logger |
| | 0.00 - 0.56m | IP Hand tools | |
| Checked By: AT Approved By: TH | Stable | | MOK |

Dynamic Sampling Uk Ltd
Unit 8 Victory Park
Victory Road
Derby
DE248ZF

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

SPT Hammer Ref: 110.71
Test Date: 16/07/2024
Report Date: 16/07/2024
File Name: 110.71.spt
Test Operator: B.HUNTER

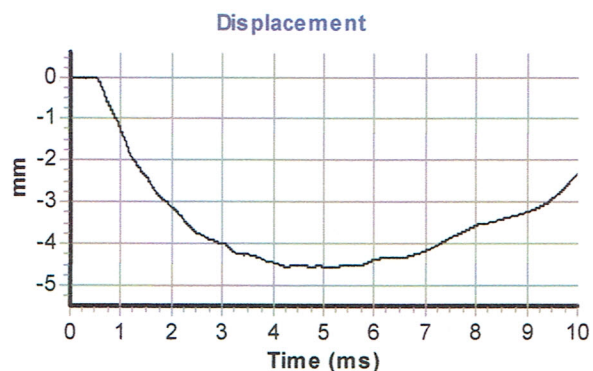
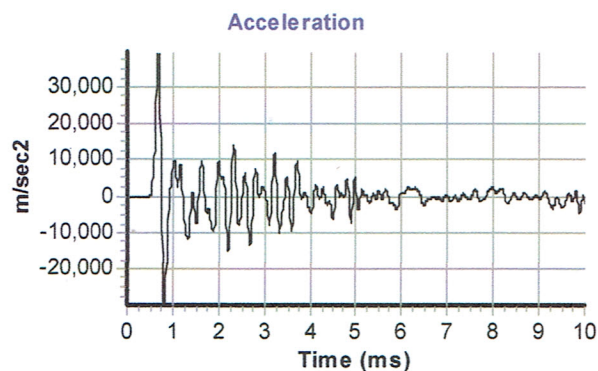
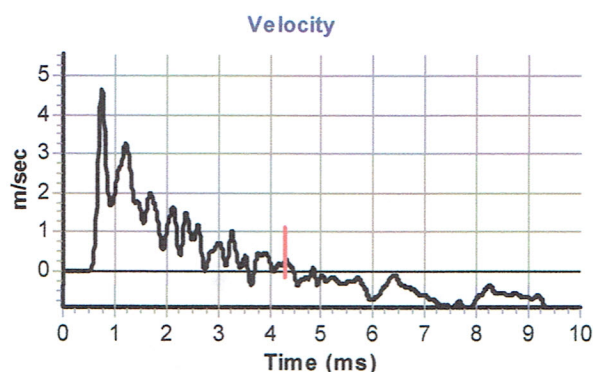
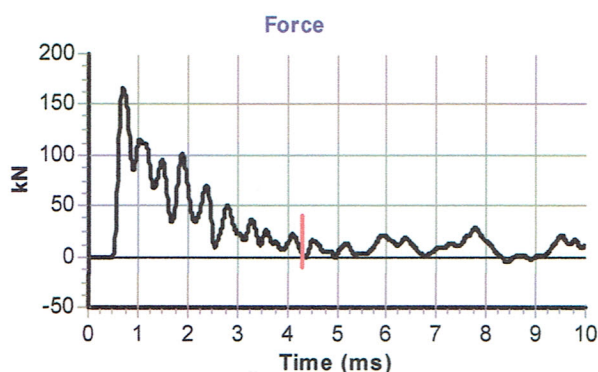
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.6
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 62901
Accelerometer No.2: 69902

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 10.0

Comments / Location

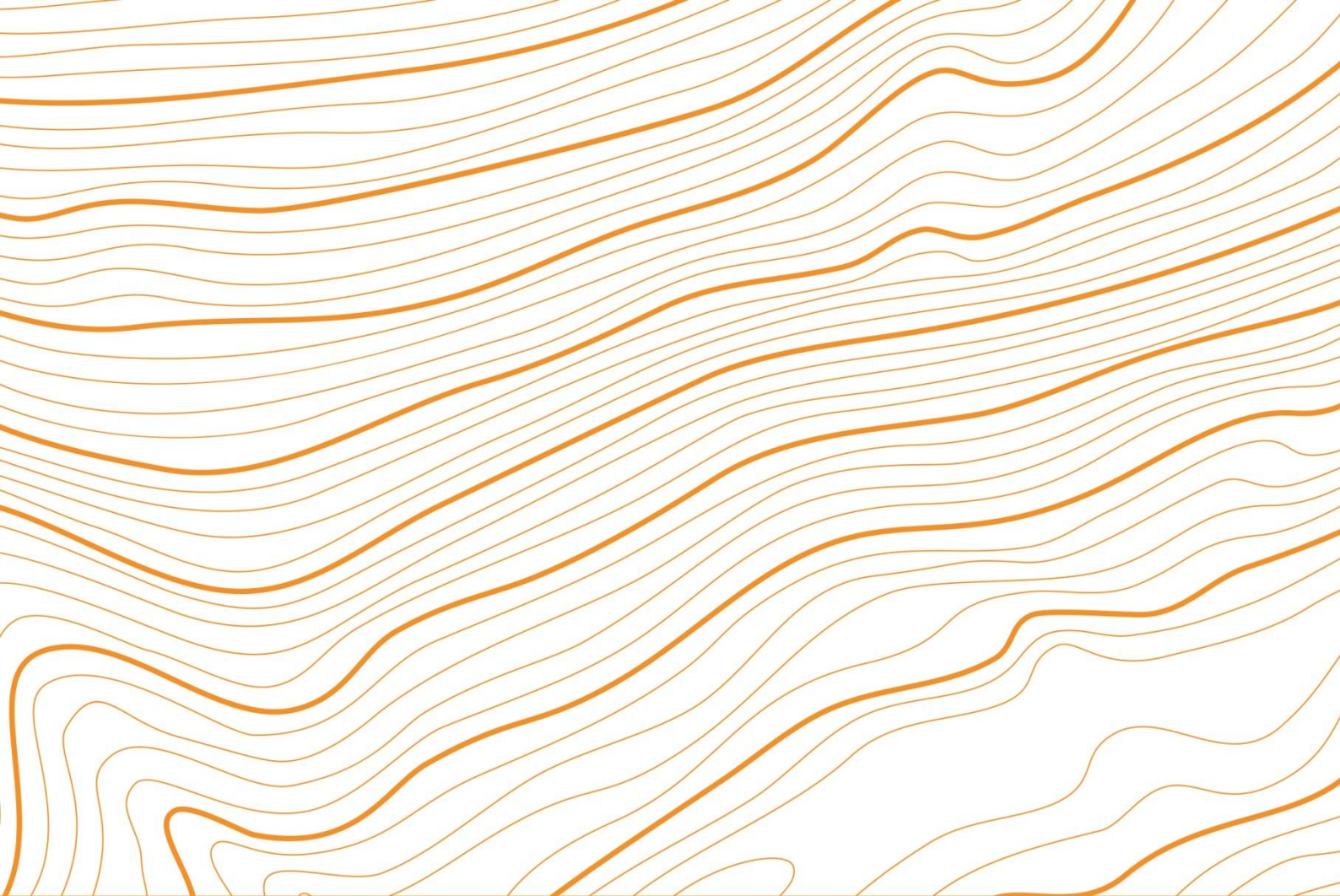


Calculations

Area of Rod A (mm^2): 983
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 359

Energy Ratio E_r (%): **76**

Signed: B.Hunter
Title: Operations Manager



Appendix F – Monitoring Data

[illegible]

[illegible]

[illegible]

[illegible]



Appendix G – Soil Chemical Analysis Results

GEO2 Remediation Ltd
Coniston House
Louisa Street
Idle
BD10 8NE

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS


e: Megan.OKelly@geo2.co.uk
Tom.Horner@geo2.co.uk

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 25-000982

Replaces Analytical Report Number: 25-000982, issue no. 1
Additional analysis undertaken.
Asbestos Quantification added to Sample 422216, as per client's request

| | | | |
|-----------------------------|-----------------|--|------------|
| Project / Site name: | Ruislip | Samples received on: | 10/01/2025 |
| Your job number: | 4383 | Samples instructed on/ Analysis started on: | 10/01/2025 |
| Your order number: | 3454 | Analysis completed by: | 17/01/2025 |
| Report Issue Number: | 2 | Report issued on: | 17/01/2025 |
| Samples Analysed: | 10 soil samples | | |

Signed: 
Claire Bancroft
Customer Service Advisor
For & on behalf of i2 Analytical Ltd.

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

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

| | | |
|--|-----------|---------------------------------|
| Standard sample disposal times, unless otherwise agreed with the laboratory, are : | soils | - 4 weeks from reporting |
| | leachates | - 2 weeks from reporting |
| | waters | - 2 weeks from reporting |
| | asbestos | - 6 months from reporting |
| | air | - once the analysis is complete |

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

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

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

Analytical Report Number: 25-000982

Project / Site name: Ruislip

Your Order No: 3454

| | | | | | |
|---|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number | 422213 | 422214 | 422215 | 422216 | 422217 |
| Sample Reference | DS101 | DS102 | DS102 | DS103 | DS104 |
| Sample Number | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Water Matrix | N/A | N/A | N/A | N/A | N/A |
| Depth (m) | 0.90-1.00 | 0.50-0.60 | 1.20-1.30 | 0.40-0.50 | 0.30-0.40 |
| Date Sampled | 08/01/2025 | 08/01/2025 | 08/01/2025 | 09/01/2025 | 09/01/2025 |
| Time Taken | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status | | |

| | | | | | | | | |
|-------------------------------|----|------|------|-------|-------|-------|------|------|
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | 55.7 | 26.8 |
| Moisture Content | % | 0.01 | NONE | 20 | 22 | 20 | 19 | 23 |
| Total mass of sample received | kg | 0.1 | NONE | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |

Asbestos

| | | | | | | | | |
|--|------|-----|-----------|---|---|---|--------------|--------------|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - | - | Detected | Not-detected |
| Asbestos Analyst ID | N/A | N/A | N/A | - | - | - | WEM | DOC |
| Actinolite detected | Type | N/A | ISO 17025 | - | - | - | Not-detected | - |
| Amosite detected | Type | N/A | ISO 17025 | - | - | - | Detected | - |
| Anthophyllite detected | Type | N/A | ISO 17025 | - | - | - | Not-detected | - |
| Chrysotile detected | Type | N/A | ISO 17025 | - | - | - | Detected | - |
| Crocidolite detected | Type | N/A | ISO 17025 | - | - | - | Not-detected | - |
| Tremolite detected | Type | N/A | ISO 17025 | - | - | - | Not-detected | - |

| | | | | | | | | |
|-------------------------------------|---|-------|-----------|---|---|---|------|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - | - | 0.01 | - |
|-------------------------------------|---|-------|-----------|---|---|---|------|---|

| | | | | | | | | |
|---|------|-----|-----------|---|---|---|--------------|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | - | Loose Fibres | - |
|---|------|-----|-----------|---|---|---|--------------|---|

General Inorganics

| | | | | | | | | |
|---|----------|------|--------|---|---|---|------|-----|
| pH (L099) | pH Units | N/A | MCERTS | - | - | - | 9.8 | 8.5 |
| Total Sulphate as SO ₄ | mg/kg | 50 | MCERTS | - | - | - | - | - |
| Water Soluble Sulphate as SO ₄ 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | - | - | - | 3500 | 250 |
| Water Soluble SO ₄ 16hr extraction (2:1) | mg/l | 1.25 | MCERTS | - | - | - | 1740 | 127 |
| Total Sulphur | mg/kg | 50 | MCERTS | - | - | - | - | - |
| Total Organic Carbon (TOC) - Automated | % | 0.1 | MCERTS | - | - | - | - | - |

Speciated PAHs

| | | | | | | | | |
|------------------------|-------|------|-----------|--------|--------|--------|--------|--------|
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.05 | 0.06 |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.05 |
| Phenanthrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.66 | 0.66 |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.16 | 0.17 |
| Fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 1 | 1.4 |
| Pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.89 | 1.2 |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.46 | 0.66 |
| Chrysene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.52 | 0.7 |
| Benzo(b)fluoranthene | mg/kg | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | 0.61 | 0.75 |
| Benzo(k)fluoranthene | mg/kg | 0.05 | ISO 17025 | < 0.05 | < 0.05 | < 0.05 | 0.26 | 0.41 |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.51 | 0.66 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.29 | 0.36 |
| Dibenz(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | < 0.05 | < 0.05 | < 0.05 | 0.35 | 0.39 |

Total PAH

| | | | | | | | | |
|-----------------------------|-------|-----|-----------|--------|--------|--------|------|------|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | < 0.80 | < 0.80 | < 0.80 | 5.86 | 7.37 |
|-----------------------------|-------|-----|-----------|--------|--------|--------|------|------|

Heavy Metals / Metalloids

| | | | | | | | | |
|----------------------------------|-------|---|--------|----|----|----|----|----|
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 13 | 15 | 13 | 17 | 20 |
|----------------------------------|-------|---|--------|----|----|----|----|----|

Analytical Report Number: 25-000982

Project / Site name: Ruislip

Your Order No: 3454

| Lab Sample Number | | | | 422213 | 422214 | 422215 | 422216 | 422217 |
|---|-------|----------------------------|------------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference | | | | DS101 | DS102 | DS102 | DS103 | DS104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Water Matrix | | | | N/A | N/A | N/A | N/A | N/A |
| Depth (m) | | | | 0.90-1.00 | 0.50-0.60 | 1.20-1.30 | 0.40-0.50 | 0.30-0.40 |
| Date Sampled | | | | 08/01/2025 | 08/01/2025 | 08/01/2025 | 09/01/2025 | 09/01/2025 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status | | | | | |
| Barium (aqua regia extractable) | mg/kg | 1 | MCERTS | 210 | 110 | 61 | 210 | 400 |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.4 | 1.8 | 1.3 | 0.8 | 0.97 |
| Boron (water soluble) | mg/kg | 0.2 | MCERTS | 1.5 | 1.2 | 0.9 | 2.9 | 1.3 |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 44 | 48 | 44 | 40 | 25 |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 24 | 26 | 27 | 19 | 48 |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 15 | 17 | 17 | 220 | 750 |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 42 | 62 | 40 | 16 | 18 |
| Selenium (aqua regia extractable) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| Vanadium (aqua regia extractable) | mg/kg | 1 | MCERTS | 80 | 87 | 73 | 45 | 43 |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 63 | 76 | 71 | 130 | 200 |

Petroleum Hydrocarbons

| | | | | | | | | |
|--|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL} | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL} | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | 0.063 | < 0.010 |
| TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL} | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | 0.017 | < 0.010 | < 0.010 |
| TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL} | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL} | mg/kg | 2 | MCERTS | < 2.0 | < 2.0 | < 2.0 | < 2.0 | 2.4 |
| TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL} | mg/kg | 8 | MCERTS | < 8.0 | < 8.0 | < 8.0 | < 8.0 | < 8.0 |
| TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL} | mg/kg | 8 | MCERTS | < 8.0 | < 8.0 | 16 | < 8.0 | 9.5 |
| TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL} | mg/kg | 10 | NONE | < 10 | < 10 | 16 | < 10 | 12 |

| | | | | | | | | |
|---|-------|------|--------|---------|---------|---------|---------|---------|
| TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR} | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR} | mg/kg | 0.01 | MCERTS | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 |
| TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR} | mg/kg | 0.02 | MCERTS | < 0.020 | < 0.020 | < 0.020 | 0.25 | < 0.020 |
| TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR} | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
| TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR} | mg/kg | 2 | MCERTS | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR} | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | < 10 | < 10 |
| TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR} | mg/kg | 10 | MCERTS | < 10 | < 10 | < 10 | 15 | < 10 |
| TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR} | mg/kg | 10 | NONE | < 10 | < 10 | < 10 | 15 | < 10 |

VOCs

| | | | | | | | | |
|------------------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Benzene | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Toluene | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Ethylbenzene | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| p & m-Xylene | µg/kg | 8 | MCERTS | < 8.0 | < 8.0 | < 8.0 | < 8.0 | < 8.0 |
| o-Xylene | µg/kg | 5 | MCERTS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

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

Analytical Report Number: 25-000982

Project / Site name: Ruislip

Your Order No: 3454

| | | | | | |
|---|---------------|----------------------------|------------------------------|---------------|---------------|
| Lab Sample Number | 422218 | 422219 | 422220 | 422221 | 422222 |
| Sample Reference | DS104 | DS101 | DS102 | DS103 | DS104 |
| Sample Number | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Water Matrix | N/A | N/A | N/A | N/A | N/A |
| Depth (m) | 0.70-0.80 | 2.90-3.00 | 1.50-1.60 | 0.40-0.50 | 3.60-3.70 |
| Date Sampled | 09/01/2025 | 08/01/2025 | 08/01/2025 | 09/01/2025 | 09/01/2025 |
| Time Taken | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status | | |

| | | | | | | | | |
|-------------------------------|----|------|------|-------|-------|-------|------|-------|
| Stone Content | % | 0.1 | NONE | < 0.1 | < 0.1 | < 0.1 | 57.6 | < 0.1 |
| Moisture Content | % | 0.01 | NONE | 21 | 19 | 20 | 22 | 19 |
| Total mass of sample received | kg | 0.1 | NONE | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 |

Asbestos

| | | | | | | | | |
|--|------|-----|-----------|---|---|---|---|---|
| Asbestos in Soil Detected/Not Detected | Type | N/A | ISO 17025 | - | - | - | - | - |
| Asbestos Analyst ID | N/A | N/A | N/A | - | - | - | - | - |
| Actinolite detected | Type | N/A | ISO 17025 | - | - | - | - | - |
| Amosite detected | Type | N/A | ISO 17025 | - | - | - | - | - |
| Anthophyllite detected | Type | N/A | ISO 17025 | - | - | - | - | - |
| Chrysotile detected | Type | N/A | ISO 17025 | - | - | - | - | - |
| Crocidolite detected | Type | N/A | ISO 17025 | - | - | - | - | - |
| Tremolite detected | Type | N/A | ISO 17025 | - | - | - | - | - |

| | | | | | | | | |
|-------------------------------------|---|-------|-----------|---|---|---|---|---|
| Asbestos % by hand picking/weighing | % | 0.001 | ISO 17025 | - | - | - | - | - |
|-------------------------------------|---|-------|-----------|---|---|---|---|---|

| | | | | | | | | |
|---|------|-----|-----------|---|---|---|---|---|
| Asbestos Containing Material Types Detected (ACM) | Type | N/A | ISO 17025 | - | - | - | - | - |
|---|------|-----|-----------|---|---|---|---|---|

General Inorganics

| | | | | | | | | |
|---|----------|------|--------|---|-------|-------|------|------|
| pH (L099) | pH Units | N/A | MCERTS | - | 6.6 | 7.4 | 8.3 | 8.3 |
| Total Sulphate as SO ₄ | mg/kg | 50 | MCERTS | - | 41000 | 480 | 2700 | 8400 |
| Water Soluble Sulphate as SO ₄ 16hr extraction (2:1) | mg/kg | 2.5 | MCERTS | - | 5500 | 290 | 1400 | 6300 |
| Water Soluble SO ₄ 16hr extraction (2:1) | mg/l | 1.25 | MCERTS | - | 2750 | 147 | 676 | 3130 |
| Total Sulphur | mg/kg | 50 | MCERTS | - | 16000 | 190 | 2500 | 2600 |
| Total Organic Carbon (TOC) - Automated | % | 0.1 | MCERTS | - | 0.2 | < 0.1 | 0.5 | - |

Speciated PAHs

| | | | | | | | | |
|------------------------|-------|------|-----------|--------|---|---|---|---|
| Naphthalene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Acenaphthylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Acenaphthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Fluorene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Phenanthrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Fluoranthene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Benzo(a)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Chrysene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Benzo(b)fluoranthene | mg/kg | 0.05 | ISO 17025 | < 0.05 | - | - | - | - |
| Benzo(k)fluoranthene | mg/kg | 0.05 | ISO 17025 | < 0.05 | - | - | - | - |
| Benzo(a)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Dibenzo(a,h)anthracene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |
| Benzo(ghi)perylene | mg/kg | 0.05 | MCERTS | < 0.05 | - | - | - | - |

Total PAH

| | | | | | | | | |
|-----------------------------|-------|-----|-----------|--------|---|---|---|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | < 0.80 | - | - | - | - |
|-----------------------------|-------|-----|-----------|--------|---|---|---|---|

Heavy Metals / Metalloids

| | | | | | | | | |
|----------------------------------|-------|---|--------|----|---|---|---|---|
| Arsenic (aqua regia extractable) | mg/kg | 1 | MCERTS | 13 | - | - | - | - |
|----------------------------------|-------|---|--------|----|---|---|---|---|

Analytical Report Number: 25-000982

Project / Site name: Ruislip

Your Order No: 3454

| Lab Sample Number | | | | 422218 | 422219 | 422220 | 422221 | 422222 |
|---|-------|----------------------------|------------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference | | | | DS104 | DS101 | DS102 | DS103 | DS104 |
| Sample Number | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Water Matrix | | | | N/A | N/A | N/A | N/A | N/A |
| Depth (m) | | | | 0.70-0.80 | 2.90-3.00 | 1.50-1.60 | 0.40-0.50 | 3.60-3.70 |
| Date Sampled | | | | 09/01/2025 | 08/01/2025 | 08/01/2025 | 09/01/2025 | 09/01/2025 |
| Time Taken | | | | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter (Soil Analysis) | Units | Test Limit of detection | Test Accreditation Status | | | | | |
| Barium (aqua regia extractable) | mg/kg | 1 | MCERTS | 49 | - | - | - | - |
| Beryllium (aqua regia extractable) | mg/kg | 0.06 | MCERTS | 1.4 | - | - | - | - |
| Boron (water soluble) | mg/kg | 0.2 | MCERTS | 2.7 | - | - | - | - |
| Cadmium (aqua regia extractable) | mg/kg | 0.2 | MCERTS | < 0.2 | - | - | - | - |
| Chromium (aqua regia extractable) | mg/kg | 1 | MCERTS | 43 | - | - | - | - |
| Copper (aqua regia extractable) | mg/kg | 1 | MCERTS | 24 | - | - | - | - |
| Lead (aqua regia extractable) | mg/kg | 1 | MCERTS | 28 | - | - | - | - |
| Mercury (aqua regia extractable) | mg/kg | 0.3 | MCERTS | < 0.3 | - | - | - | - |
| Nickel (aqua regia extractable) | mg/kg | 1 | MCERTS | 37 | - | - | - | - |
| Selenium (aqua regia extractable) | mg/kg | 1 | MCERTS | < 1.0 | - | - | - | - |
| Vanadium (aqua regia extractable) | mg/kg | 1 | MCERTS | 75 | - | - | - | - |
| Zinc (aqua regia extractable) | mg/kg | 1 | MCERTS | 69 | - | - | - | - |

Petroleum Hydrocarbons

| | | | | | | | | |
|--|-------|------|--------|---------|---|---|---|---|
| TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL} | mg/kg | 0.01 | MCERTS | < 0.010 | - | - | - | - |
| TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL} | mg/kg | 0.01 | MCERTS | < 0.010 | - | - | - | - |
| TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL} | mg/kg | 0.01 | MCERTS | 0.025 | - | - | - | - |
| TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL} | mg/kg | 1 | MCERTS | < 1.0 | - | - | - | - |
| TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL} | mg/kg | 2 | MCERTS | < 2.0 | - | - | - | - |
| TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL} | mg/kg | 8 | MCERTS | < 8.0 | - | - | - | - |
| TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL} | mg/kg | 8 | MCERTS | < 8.0 | - | - | - | - |
| TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL} | mg/kg | 10 | NONE | < 10 | - | - | - | - |

| | | | | | | | | |
|---|-------|------|--------|---------|---|---|---|---|
| TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR} | mg/kg | 0.01 | MCERTS | < 0.010 | - | - | - | - |
| TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR} | mg/kg | 0.01 | MCERTS | < 0.010 | - | - | - | - |
| TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR} | mg/kg | 0.02 | MCERTS | < 0.020 | - | - | - | - |
| TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR} | mg/kg | 1 | MCERTS | < 1.0 | - | - | - | - |
| TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR} | mg/kg | 2 | MCERTS | < 2.0 | - | - | - | - |
| TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR} | mg/kg | 10 | MCERTS | < 10 | - | - | - | - |
| TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR} | mg/kg | 10 | MCERTS | < 10 | - | - | - | - |
| TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR} | mg/kg | 10 | NONE | < 10 | - | - | - | - |

VOCs

| | | | | | | | | |
|------------------------------------|-------|---|--------|-------|---|---|---|---|
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | MCERTS | < 5.0 | - | - | - | - |
| Benzene | µg/kg | 5 | MCERTS | < 5.0 | - | - | - | - |
| Toluene | µg/kg | 5 | MCERTS | < 5.0 | - | - | - | - |
| Ethylbenzene | µg/kg | 5 | MCERTS | < 5.0 | - | - | - | - |
| p & m-Xylene | µg/kg | 8 | MCERTS | < 8.0 | - | - | - | - |
| o-Xylene | µg/kg | 5 | MCERTS | < 5.0 | - | - | - | - |

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



Analytical Report Number: 25-000982
Project / Site name: Ruislip
Your Order No: 3454

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

| Sample Number | Sample ID | Sample Depth (m) | Sample Weight (g) | Asbestos Containing Material Types Detected (ACM) | PLM Results | Asbestos by hand picking/weighing (%) | Total % Asbestos in Sample |
|---------------|-----------|------------------|-------------------|---|----------------------|---------------------------------------|----------------------------|
| 422216 | DS103 | 0.40-0.50 | 166 | Loose Fibres | Amosite & Chrysotile | 0.010 | 0.010 |

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

Analytical Report Number : 25-000982
Project / Site name: Ruislip

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

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

| Lab Sample Number | Sample Reference | Sample Number | Depth (m) | Sample Description * |
|-------------------|------------------|---------------|-----------|--|
| 422213 | DS101 | None Supplied | 0.90-1.00 | Light brown clay and sand with gravel |
| 422214 | DS102 | None Supplied | 0.50-0.60 | Light brown clay |
| 422215 | DS102 | None Supplied | 1.20-1.30 | Light brown clay |
| 422216 | DS103 | None Supplied | 0.40-0.50 | Brown sandy gravel with stones ¹⁹ |
| 422217 | DS104 | None Supplied | 0.30-0.40 | Brown sand with stones |
| 422218 | DS104 | None Supplied | 0.70-0.80 | Brown clay |
| 422219 | DS101 | None Supplied | 2.90-3.00 | Brown clay and sand |
| 422220 | DS102 | None Supplied | 1.50-1.60 | Brown clay |
| 422221 | DS103 | None Supplied | 0.40-0.50 | Brown clay and sand with stones |
| 422222 | DS104 | None Supplied | 3.60-3.70 | Brown clay |

Analytical Report Number : 25-000982

Project / Site name: Ruislip

Water matrix abbreviations:

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

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|---|---|---|---------------|--------------------|----------------------|
| Asbestos identification in Soil | Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques | In-house method based on HSG 248, 2021 | A001B | D | ISO 17025 |
| Asbestos Quantification - Gravimetric | Asbestos quantification by gravimetric method - in house method based on references | HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft) | A006B | D | ISO 17025 |
| Total organic carbon (Automated) in soil | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method) | In-house method | L009B | D | MCERTS |
| Moisture Content | Moisture content, determined gravimetrically (up to 30°C) | In-house method | L019B | W | NONE |
| Stones content of soil | Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight | In-house method based on British Standard Methods and MCERTS requirements. | L019B | D | NONE |
| Metals in soil by ICP-OES | Determination of metals in soil by aqua-regia digestion followed by ICP-OES | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil | L038B | D | MCERTS |
| Boron, water soluble, in soil | Determination of water soluble boron in soil by hot water extract followed by ICP-OES | In-house method based on Second Site Properties version 3 | L038B | D | MCERTS |
| Total sulphate (as SO ₄ in soil) | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES | In-house method | L038B | D | MCERTS |
| Sulphate, water soluble, in soil (16hr extraction) | Sulphate, water soluble, in soil (16hr extraction) | In-house method | L038B | D | MCERTS |
| Total Sulphur in soil | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES | In-house method | L038B | D | MCERTS |
| Speciated PAHs and/or Semi-volatile organic compounds in soil | Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS | In-house method based on USEPA 8270 | L064B | D | MCERTS |
| BTEX and/or Volatile organic compounds in soil | Determination of volatile organic compounds in soil by headspace GC-MS | In-house method based on USEPA 8260 | L073B | W | MCERTS |
| Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil | Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic | In-house method | L076B/L088-PL | D/W | MCERTS |

Analytical Report Number : 25-000982

Project / Site name: Ruislip

Water matrix abbreviations:

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

Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|------------------------|--|-----------------------------|---------------|--------------------|----------------------|
| pH in soil (automated) | Determination of pH in soil by addition of water followed by automated electrometric measurement | In-house method | L099-PL | D | MCERTS |

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

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

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

*g - Unaccredited sample matrix.



Appendix H – Geotechnical Analysis Results



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,
cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: GEO2 Remediation Ltd
Client Address: Coniston House, Louisa Street,
Idle, BD10 8NE

Contact: Megan Okelly
Site Address: Ruislip

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 4383
Job Number: 25-000812-1
Date Sampled: 08/01/2024
Date Received: 10/01/2025
Date Tested: 16/01/2025
Sampled By: Not Given

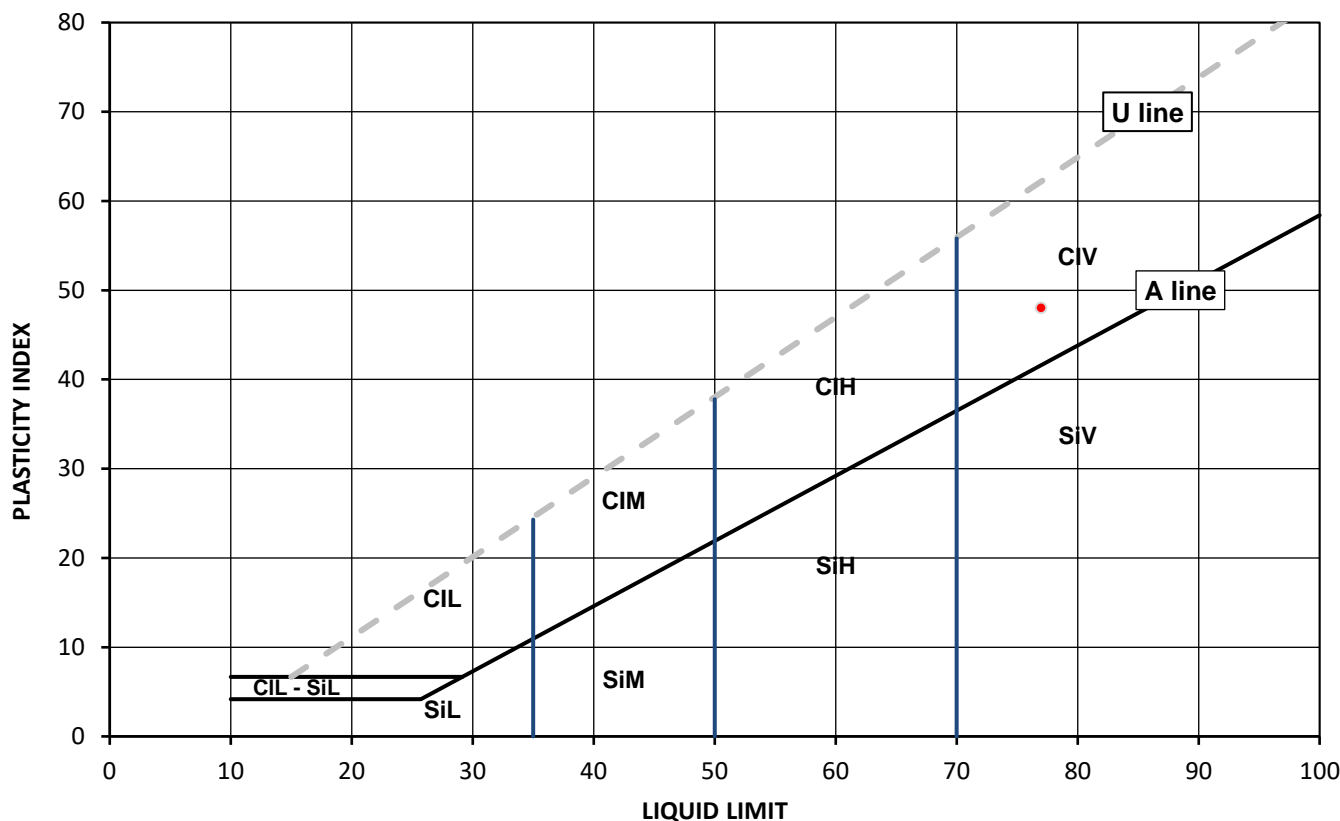
Test Results:

Laboratory Reference: 421232
Hole No.: DS101
Sample Reference: Not Given
Sample Description: Light brown slightly gravelly CLAY

Depth Top [m]: 0.50
Depth Base [m]: 0.60
Sample Type: D

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

| As Received Water Content [W] % | Liquid Limit [WL] % | Plastic Limit [Wp] % | Plasticity Index [Ip] % | Liquidity Index [IL] % # | Consistency Index [IC] % # | % Passing 425µm BS Test Sieve |
|---------------------------------|---------------------|----------------------|-------------------------|--------------------------|----------------------------|-------------------------------|
| 34.2 | 77 | 29 | 48 | 0.10 | 0.90 | 94 |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

| | Plasticity | Liquid Limit |
|----|-----------------|---|
| Cl | Clay | L Low below 35 |
| Si | Silt | M Medium 35 to 50 |
| | H High 50 to 70 | V Very high exceeding 70 |
| | O Organic | |
| | | append to classification for organic material (eg CIHO) |

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,
cl 5.2 and 6

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: GEO2 Remediation Ltd
Client Address: Coniston House, Louisa Street,
Idle, BD10 8NE

Contact: Megan Okelly
Site Address: Ruislip

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 4383
Job Number: 25-000812-1
Date Sampled: 08/01/2024
Date Received: 10/01/2025
Date Tested: 16/01/2025
Sampled By: Not Given

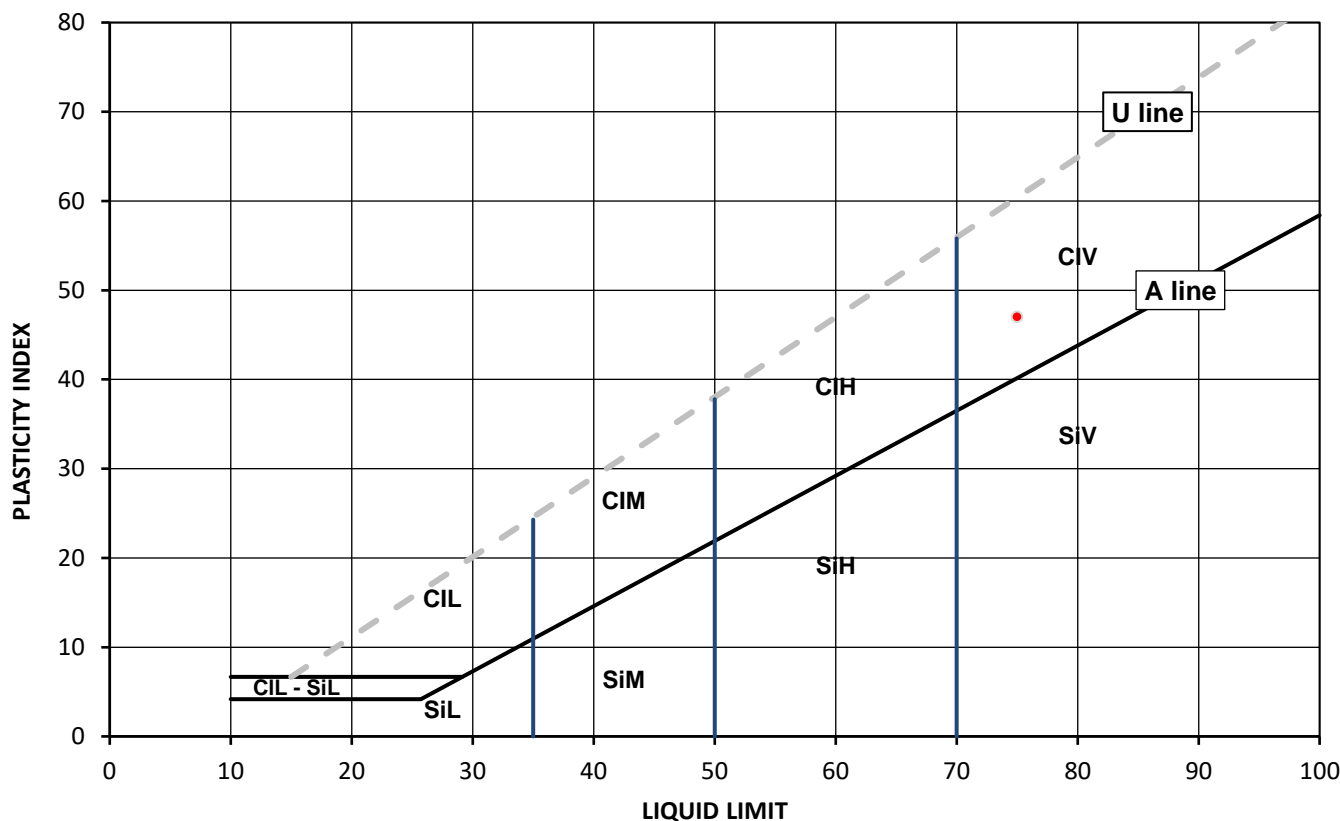
Test Results:

Laboratory Reference: 421233
Hole No.: DS102
Sample Reference: Not Given
Sample Description: Brownish grey slightly gravelly CLAY

Depth Top [m]: 2.00
Depth Base [m]: 2.10
Sample Type: D

Sample Preparation: Tested after >0.425mm removed by hand; The water content in the sample was increased
Cone Type: 80g/30deg

| As Received Water Content [W] % | Liquid Limit [WL] % | Plastic Limit [Wp] % | Plasticity Index [Ip] % | Liquidity Index [IL] % # | Consistency Index [IC] % # | % Passing 425µm BS Test Sieve |
|---------------------------------|---------------------|----------------------|-------------------------|--------------------------|----------------------------|-------------------------------|
| 31.1 | 75 | 28 | 47 | 0.06 | 0.94 | 95 |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

| | Plasticity | Liquid Limit |
|----|------------|---|
| Cl | Clay | below 35 |
| Si | Silt | 35 to 50 |
| | L | Low |
| | M | Medium |
| | H | High |
| | V | Very high |
| | O | Organic |
| | | append to classification for organic material (eg ClHO) |

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS EN ISO 17892-12:2018+A2:2022,
cl 5.3 and 5.5, Fall Cone Method, 4 Pt Test, BS 1377-2:2022,
cl 5.2 and 6

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Environmental Science

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Contact: Megan Okelly
Site Address: Ruislip

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 4383
Job Number: 25-000812-1
Date Sampled: 09/01/2024
Date Received: 10/01/2025
Date Tested: 16/01/2025
Sampled By: Not Given

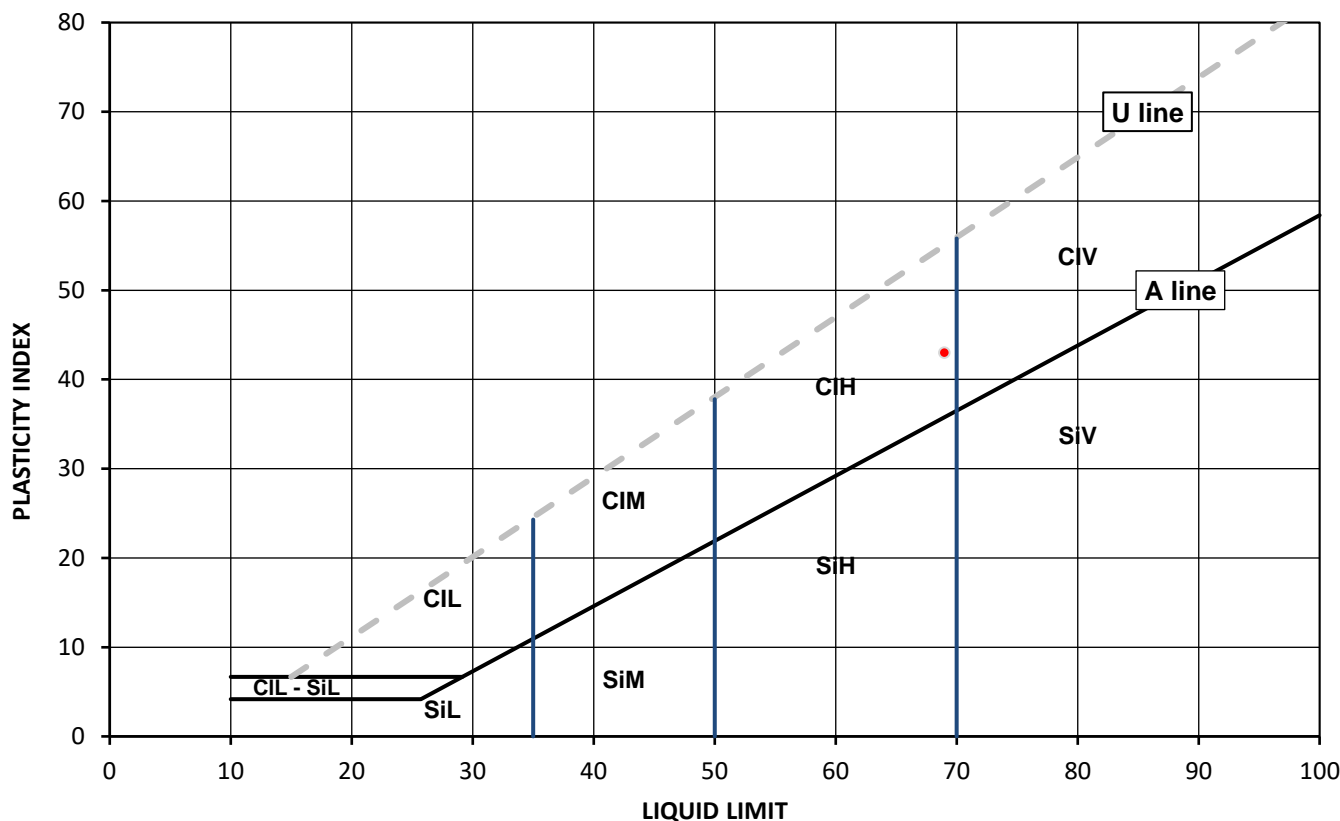
Test Results:

Laboratory Reference: 421234
Hole No.: DS103
Sample Reference: Not Given
Sample Description: Brownish grey CLAY

Depth Top [m]: 1.20
Depth Base [m]: 1.30
Sample Type: D

Sample Preparation: Tested in natural condition; The water content in the sample was increased
Cone Type: 80g/30deg

| As Received Water Content [W] % | Liquid Limit [WL] % | Plastic Limit [Wp] % | Plasticity Index [Ip] % | Liquidity Index [IL] % # | Consistency Index [IC] % # | % Passing 425µm BS Test Sieve |
|---------------------------------|---------------------|----------------------|-------------------------|--------------------------|----------------------------|-------------------------------|
| 28.7 | 69 | 26 | 43 | 0.07 | 0.93 | 100 |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

| | Plasticity | Liquid Limit |
|----|------------|---|
| Cl | Clay | L Low below 35 |
| Si | Silt | M Medium 35 to 50 |
| | | H High 50 to 70 |
| | | V Very high exceeding 70 |
| | O Organic | append to classification for organic material (eg CIHO) |

Note: Water Content by BS EN ISO 17892-1:2014+A1:2022, BS 1377-2:2022; # Non accredited

Remarks:

Signed:

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