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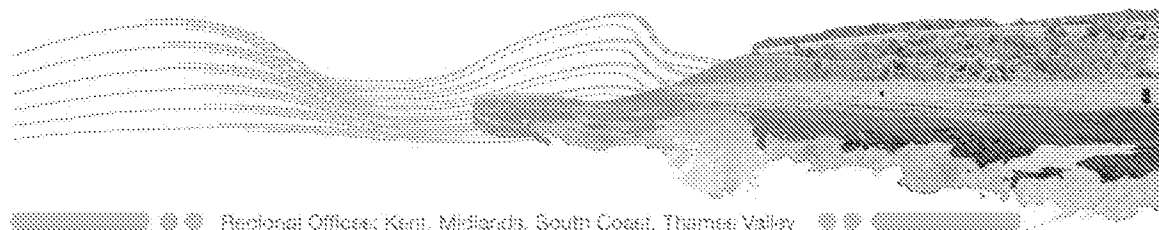
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Report Reference : LP2265

Report Date : 28<sup>th</sup> July 2020

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APPENDIX A ´ Limitations

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APPENDIX D ´ Historic Maps and Environmental Database Searches

APPENDIX E ´ Qualitative Risk Assessment

APPENDIX F ´ Trial Hole and Borehole Logs





## APPENDIX G ' Field Monitoring Records

## APPENDIX H ' Chemical Laboratory Test Results

## APPENDIX I ' Geotechnical Laboratory Test Results

## APPENDIX J ' Soakage Test Results

## APPENDIX K ' Soil Screening Tables

## APPENDIX L Preliminary Waste Classification

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The site comprises a rectangular plot of undeveloped land, which extends to about 2.56 hectares in size and is situated to the west of Elm Grove Road, Littlehampton. It is proposed to redevelop the site for a residential end use.

The site has a history of use as a primary and secondary school, which was demolished around 2013. The desk study has identified a number of potential sources of contamination associated with the site's former use, together several large stockpiles of material to the south and west of the site. It is not known if an environmental permit was obtained for the stockpiles. The site is not mapped in an area affected by radon gas.

The site is mapped as being underlain by River Terrace Deposits over Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated) Ground conditions comprise made ground to around 0.5 m over River Terrace Deposits to depths between 2.35 to 4.10 m over Chalk to +6.0 m. Groundwater was encountered within the Chalk in one location (WS3 at 5.0 m below ground level.

The site is mapped by the Environment Agency as a zone 1 flood risk zone.

An allowable bearing capacity of 85 kPa is recommended for shallow foundations on the firm clays below about 1m, increasing to 125 kPa on the underlying sands, subject to confirmatory probing.

Suspended floor slabs are recommended.

Soil sulphates in the River Terrace Deposits fall within BRE design class DS1 and the site conditions fall within the ACEC class AC-

The superficial deposits are not generally suitable for conventional soakaway drainage. Higher permeability may be achieved in the chalk, subject to confirmatory probing and testing to ensure that there is no risk of activating solution features.

A preliminary design CBR value of 2% is recommended.

A geo-environmental risk assessment has been carried out. Contamination testing of the soils and groundwater identified benzo(a)pyrene in shallow made ground at concentrations above generic assessment criteria for a residential land use with gardens. In addition, the southern stockpile recorded benzo(a)pyrene above GAC in one location.

Recommendations are given for the remediation of contamination on the site. As a minimum, an allowance should be made for removal of made ground in garden and soft landscaped areas to 600 mm depth or to natural ground, whichever is shallowest. Allowance should also be



made for further investigations beneath the existing stockpile areas, which have not been able to be accessed.

2 No. land gas monitoring visits have been carried out and slightly elevated carbon dioxide was recorded, but not at concentrations requiring gas protection measures. Further gas monitoring is recommended due to the sensitivity of the proposed land use.

As with any redevelopment site, there is always the risk of hitherto undetected contamination, and further investigations should be carried out prior to redevelopment.

The shallow made ground soils on site will be expected to be classified as hazardous waste due to the high benzo(a)pyrene concentrations recorded. Further investigation, including research into the environmental permitting status and chemical testing of the stockpiles is recommended.

|                 |                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|
| Signed :        | <br>Martin W eil BSc MA C.W EM CSci C Env |
| Countersigned : | <br>Richard Brinkworth BEng C Eng MIC E  |
| Date :          | 28 July 2020                                                                                                                 |
| Revision:       | Issue 1                                                                                                                      |

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The proposed development is currently at a pre-purchase phase and has been assessed in accordance with BS EN 1997<sup>1</sup>, as being a Geotechnical Category 2 structure.

- z Provide information on the geotechnical and environmental quality of the ground present on the site;
- z Assess the potential health and other environmental risks posed by the site to the proposed development and to other specifically identified receptors; and
- z Assess the potential for offsite contamination to adversely affect the proposed development.

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We are not aware if the site has been the subject of previous investigations by others. However, following a search of the planning records for West Sussex County Council and Arun District Council two reports are available for the Littlehampton Academy immediately adjacent to the north of the site and one report for an access road immediately west of the site, namely:

<sup>1</sup> BS EN 1997-1(2004)+A1:2013 Eurocode 7:Geotechnical Design: General Rules

- 3/11/2019 10:00 AM

The investigation comprises two phases of work.

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- 2 British Geological Society (BGS) 1:50,000 Series Geological Map Sheet 317 & 322 'Chichester and Bognor' Solid and Drift ed. dated 1996
- 2 BGS 'Geology of Britain' online viewer accessed on 08/07/20
- 2 BGS Borehole log ref. TQ00SW 32 located ~350 m southeast of the site boundary, respectively.

- ¿ Envirocheck database report (245184381 dated 18<sup>th</sup> June 2020).
- ¿ Unexploded WWII aerial delivered bomb (UXB) regional risk maps produced by Zetica.
- ¿ Interrogation of Arun District Council planning records for the site (<https://www.arun.gov.uk/planning-building-control-site-searches>).
- ¿ Interrogation of West Sussex County Council planning records for the site (<https://www.westsussex.gov.uk/planning/find-a-planning-application/>)

A site reconnaissance was carried out as part of the site investigation works on 22 June 2020.

The desk study and site reconnaissance have been used to develop an initial conceptual site model for the site. The initial site conceptual model is used to identify geotechnical and geoenvironmental hazards and the qualitative degree of risk associated with them. In terms of the geoenvironmental assessment the conceptual site model is used to identify potential sources of contamination, potential receptors and pathways by which the two may be connected. These are known as possible contaminant linkages and it is these contaminant linkages that are key to contaminated land risk assessment.

The Phase I investigation is also referred to as a Preliminary Investigation<sup>3</sup>.

## 2.2.2 Phase II Site Investigation

The Phase II work comprises intrusive investigation, onsite monitoring and laboratory analysis. The results of this are used to validate and/or update the initial site conceptual model. This phase of site investigation comprised the following tasks:

- ¿ 5 No. 6m deep windowless boreholes drilled with a tracked rig
- ¿ 12 No. 1-3m deep machine excavated trial pits;
- ¿ 1No. BRE365 soakage test;
- ¿ In-situ geotechnical testing including Standard Penetrometer Tests in the boreholes and field vane tests in the trial pits;
- ¿ Geotechnical Laboratory Testing including Atterberg Limit Tests, and Sulphate Tests;
- ¿ Chemical Laboratory tests including 20 No. LEAP standard soil suite tests; and

---

<sup>3</sup> BS 10175:2011+A2:2017 Investigation of Potentially Contaminated Sites ' Code of Practice.

Two soil samples were subject to Waste Acceptance Criteria (WAC) tests.

The intrusive works were completed by contractors who have been scrutinised and are on LEAP's approved contractor list. The windowless sampling and soakage testing were carried out by Oakland Site Investigation Limited. The machine excavated trial pits were carried out by BPH plant hire and supervised by LEAP.

Selected samples of soil were scheduled for laboratory testing for a wide range of potential contaminants including metals, non-metals, polycyclic aromatic hydrocarbons and asbestos screening. The laboratory testing has been carried out by The Environmental Laboratory Ltd at its laboratories in East Sussex.

Selected soil samples have been classified by laboratory analysis for geotechnical design purposes. The laboratory testing has been carried out by Geolabs Ltd at its laboratories in Watford.

The final stage in the geoenvironmental assessment comprises a quantitative risk assessment and revision of the preliminary Conceptual Site Model. Preliminary recommendations for remediation have been provided, based on various development assumptions which are detailed in the following section and in the text of this report. The risk assessment has been carried out in accordance with UK industry standards and in particular in accordance with CLR11<sup>4</sup> and BS10175:2011+A2:2017.

The final stage of the geotechnical assessment is the provision of preliminary soil parameters for use in geotechnical design, and broad recommendations for appropriate foundation options. It is intended that the Geotechnical Information section of this report will fulfil the general requirements of the Ground Investigation Report as set out in Section 6 of Eurocode7<sup>5</sup>.

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This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

<sup>4</sup> Environment Agency, 2004. Model Procedures for the management of land contamination. Contaminated Land Report 11.

<sup>5</sup> BS EN 1997 Eurocode 7- Geotechnical Design- Part 1:General rules (2004) Part 2: Ground Investigation and Testing (2007)

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk.

Full details of the limitations are provided in Appendix A.



The approximate National Grid Reference of the site is TQ033026. The site lies at an estimated elevation of 7.50 m Above Ordnance Datum (m AOD).

The current site layout is shown in Figure 2, Appendix B. A walkover survey was carried out as part of the site investigation works on 22<sup>nd</sup> June 2020 and photographs are included within Appendix C.

The site comprises an approximately rectangular shaped plot of land located to the west of Elm Grove Road and to the south of the Littlehampton Academy. Site access was obtained via a locked double gate in the southeast corner. The southern and western perimeters are secured by a chain linked fence, The eastern perimeter by a wooden 'overlap' panel fence and the northern perimeter by a ~3 m high metal security fence. Two panels were missing from the most southerly section of the eastern perimeter fence.

A concrete surfaced access road is present along the full length of southern boundary. However, scrub vegetation, overhanging trees and brambles obscure parts of the road, notably where the road extends into the western quadrant, which was impassable at the time of the walkover. Immediately to the north of the access road was a line of semi-mature deciduous trees and scrub vegetation along its full length. A large stockpile of unknown material is present north of the road ~100 m long by ~25 m wide and ~2.0 m high. The stockpile is covered by scrub vegetation and high grass. Crushed concrete and brick rubble were visible in parts along the southern face of the stockpile. The western quadrant of the site is predominantly occupied by a large stockpile of unknown material that is also covered by grass and scrub vegetation. The approximate dimensions of the western stockpile are ~83 m long by ~55 m wide and ~3.50 m high in places. There are areas of dense scrub vegetation and semi-mature deciduous trees in land to the north and south of the stockpile.

There is an area of open land ~20 m wide west of the stockpile, which is only accessible by walking over the stockpile. Some fly-tipped waste (old pallets, wooden boards and a roll of wire) was noted close to the boundary fence in the northern part of this area. Along the western fence line there was an area of low lying ground ~350m<sup>2</sup> in area, possibly a former retention pond, but it was dry at the time of the walkover and the base and sides were covered with semi-mature trees, grass and scrub vegetation. The boundaries of the 'pond' were

secured by a wooden fence. An asphalt covered track was observed adjacent to the east of the western stockpile, aligned north to south and connects the southern access road to a small area of asphalt covered hardstanding in the northwest. Other areas of hardstanding (mix of asphalt and floor tiles) were visible through scrub vegetation in land adjacent to the east of the western stockpile. The remainder of the site is a largely level scrub covered open field, there is a slight downwards incline from west to east and south to north (excluding the stockpiles). Locally there are smaller mounds of grass covered brick and concrete rubble in the central section of the site, and low level demolition waste (brick, concrete, asphalt gravel) is visible at surface in many areas.

The site is bounded by the Littlehampton Academy to the north, a children's nursery to the east, with terraced residential properties beyond, an area of public open space (Rosemead Park) is located to the south of the site, additional residential properties are located to the southeast of the site. Fitzalan Road bounds the site to the west and beyond which are residential properties.

## 2.1.1 Drift

The geology of the site has been ascertained by reference to the 1:50,000 British Geological Survey sheet 317 & 322 Chichester and Bognor (1996), solid and drift edition, the BGS website ([www.bgs.ac.uk](http://www.bgs.ac.uk)) and the Envirocheck report. The site is mapped as being underlain by River Terrace Deposits over Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated) (hereafter referred to as Upper Chalk).

## 2.1.2 Sediments

These sedimentary deposits are fluvial in origin. They are detrital, ranging from coarse- to fine-grained and form beds and lenses of deposits reflecting the channels, floodplains and levees of a river or estuary (if in a coastal setting)

## 2.1.3 Chalk

These sedimentary rocks are shallow-marine in origin. They are biogenic and detrital, generally comprising carbonate material (coccoliths), forming distinctive beds of chalk.

## 2.1.4 Boreholes

The online BGS Geoindex (<http://www.bgs.ac.uk/geoindex/>) has been reviewed for detailed local geological and hydrogeological information. 1 No. Boreholes has been identified within 400 m of the site. Borehole ref. TQ00SW32 located 350 m southeast of the site are summarised below:

| 5+100 CTXI<br>I.                                                      | 5+100 CTXI<br>I. | {180+100<br>I. | 5+100 CTXI<br>I.                                                                                  |
|-----------------------------------------------------------------------|------------------|----------------|---------------------------------------------------------------------------------------------------|
| TQ005W32 ~350 m southeast of the site. Groundwater recorded at 7.50 m |                  |                |                                                                                                   |
| GL                                                                    | 0.20             | TOP SOIL       | Not described                                                                                     |
| 0.20                                                                  | 7.50             | Not described  | Light brown sandy clay with gravel seams                                                          |
| 7.50                                                                  | 9.50             | Not described  | Putty chalk and some flints                                                                       |
| 9.50                                                                  | 15.00            | Not described  | Soft chalk and flints                                                                             |
| 15.00                                                                 | 23.00            | Not described  | Firm chalk flints with soft seams<br>A band of grey marly clay at 22-23                           |
| 23.00                                                                 | 52.00            | Not described  | Chalk with soft seams or soft chalk stones and flints                                             |
| 52.00                                                                 | 76.00            | Not described  | Chalk and marl with hard seams                                                                    |
| 76.00                                                                 | 180.00           | Not described  | Layers of hard chalk and marl seams becoming hard marl<br>with occasional soft seams after ~100 m |

The Envirocheck report records a very low potential for ground dissolution stability hazards for the site. However, we note that dissolution features (pipes and cavities) are not uncommon in the Chalk. A possible infilled natural cavity was identified by LEAP in land ~1.35km to the north of the site.

|                           |                                                      |                                                     |
|---------------------------|------------------------------------------------------|-----------------------------------------------------|
| Superficial Deposit       | River Terrace Deposits                               | Secondary A Aquifer                                 |
| Bedrock                   | Upper Chalk                                          | Principal Aquifer                                   |
| Groundwater vulnerability | Secondary Superficial Aquifer                        | Medium Vulnerability. Combined Vulnerability Medium |
| Source Protection Zone    | None recorded within 1000 m of the site              |                                                     |
| Licensed Abstractions     | Four within 1000 m of the site, but no longer active |                                                     |

The Envirocheck data report records that the groundwater vulnerability from soluble rock risk is classified as 'significant risk' problems unlikely'.

The Envirocheck report lists four groundwater abstraction licences within 1000 m of the subject site. Four are located 885 m to the north of the site and is licensed for spray irrigation. The operator is listed as Firview Nursery, which is no longer present at the location and has been replaced with residential housing.

From groundwater monitoring on the Littlehampton Academy site to the north, a flow direction in the chalk aquifer has been estimated to be towards the southeast. The English C channel is located ~1.2km south of the site. Groundwater levels are anticipated to be ~5.0 to 6.0 m bgl (based on the levels recorded at the Littlehampton Academy site).

## 2.1.2 Surface Water

The Envirocheck report lists an un-named surface water feature on site. This is presumed to be the dry pond area noted during the site walkover. The closest OS Water Network Line is mapped approximately 830 m to the northeast of the site, this is possibly associated with the Black Ditch river. The River Arun is located approximately 895 m to the southwest at its closest extent.

The Envirocheck does not record any active discharge consents within 250 m of the site boundaries.

## 2.1.3 Flood Risk

The Envirocheck report records that the central northern and northwestern areas of the site are mapped as having a potential for 'groundwater flooding of property situated below ground level' and the remainder of the site recorded as 'limited potential for groundwater flooding to occur'.

According to the Environment Agency, the site is not located within a flood zone. Flood zones 2 and 3, associated with the River Arun, extend to within 195m southwest of the site boundary.

Parts of the site to the northeast, south and northwest are mapped<sup>6</sup> as being at risk of surface water flooding.

A flood risk assessment for the site has been completed by others in 2014<sup>7</sup> and to which reliance on the information has not been obtained. However, we note that the report states that: 'Neither the Environment Agency, Arun District Council, West Sussex County Council nor

<sup>6</sup> <https://flood-warning-information.service.gov.uk/long-term-flood-risk/map>

<sup>7</sup> Flood Risk Assessment for a residential development at Land South of the Littlehampton Academy, Littlehampton

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- z Sites of Special Scientific Interest (SSSI);
- z Records of National Nature Reserves (NNR);
- z Areas of Special Conservation (SAC);
- z Records of Special Protection Areas (SPA);
- z Records of Ramsar Sites;
- z Records of Local Nature Reserves;
- z Ancient Woodland Records.

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The site is currently unoccupied scrub open land.

## 9th & 10th Century / 19th & 20th Century

A walkover survey was carried out as part of the site investigation works on 22<sup>nd</sup> June 2020.

The following features were identified as possible sources of contamination:

- ¿ Two large stockpiles of unknown material, one is located along the southern boundary and the second is located within the western site boundary.
- ¿ Smaller mounds of grass covered crushed brick and concrete are noted in the central areas of the site.
- ¿ Fly-tipped waste along the southern access road into the site.
- ¿ Small areas of waste material (wooden pallets and metal wire) within the western site boundary.
- ¿ Evidence of demolition material (brick, concrete and asphalt gravel) at surface throughout.
- ¿ Possible remnant foundation structures in the southeast of the site.
- ¿ Possible remnant floor slabs in land adjacent to the western stockpile eastern face (where floor tiles were observed).

## 11th & 12th Century / 19th & 20th Century

The following features were identified as possible sources of contamination:

- ¿ To the west of the site a new north / south aligned link road is under construction. Possible accidental fuel spillages may be a potential off site risk.
- ¿ An electrical substation, secured by wooden fencing located ~10 m to the southeast of the site.

The Envirocheck report details one fuel station within 250m of the subject site. It is located approximately 224 m to the southeast of the site. It is unlikely to pose a risk of land or groundwater contamination, as the fuel station is located down hydraulic gradient of the site.

## 13th & 14th Century / 19th & 20th Century

The contaminative and development history of the site has been ascertained with reference to the Ordnance Survey historical maps and aerial imagery.

In summary, the site comprised undeveloped land from the late 19<sup>th</sup> Century up until the mid-20<sup>th</sup> Century. From 1959 until ~2012 the site was occupied by primary and secondary school education facilities. From 2013 the site has been unoccupied.

## 15th & 16th Century / 19th & 20th Century

The historical Ordnance Survey maps provided spanned the period from 1876 to present day at scales of 1:10,000, 1:2,500 and 1:1,250. The maps are included in full in Appendix D.







|                                 |                                                                                                                                                                                                                                                                                                                          |                       |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| April 2015<br>Aerial<br>Imagery | Grass covered stockpiles appear present on the southern site boundary. Land north of the stockpiles appear 'tracked' which may be evidence of surface soil removal. The structures in the southwest and northwest are no longer present. Several portacabin-like structures are present in the western half of the site. | No significant change |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|

Online searches<sup>8</sup> record that the buildings at Elm Grove were completed 1940 (apparently seeing use as a war hospital) before the local girls school moved in. In 1962 It was renamed Maud Allen Secondary modern. The Hill road buildings were opened on an adjacent site in 1959 and the local boys school moved in, by 1962 it had been renamed Andrew Cairns Secondary School.

Both schools merged to form Littlehampton Comprehensive School in 1972, following the decision in 1965 to abolish the eleven plus and grammar school / secondary modern system in favour of comprehensives.

A series of extensions and revisions to the existing buildings followed; The canteen at Elm Grove was converted into classrooms and workshops and the stage was bricked up. In 1991 a major arson attack resulted in the building of a new science block and a library. A number of prefabs and temporary classrooms were also added to cope with increased student numbers. It is recorded that the school closed in the summer of 2012, asbestos strip out is inferred to have occurred ~October 2012.

Both the Environment Agency and Arun District Council have been contacted with regards to contaminated land uses at the site in particular available information relating to the stockpiles. At time of writing no information from the Environment Agency has been made available to LEAP. Arun District Council report that they hold no information in relation to the stockpiles on site.

The risks from unexploded ordnance have been assessed in accordance with CIRIA guidance<sup>9</sup>. A non-UXO specialist preliminary screening assessment has been carried out. The risks have been assessed by considering firstly the likelihood of military activities on, or in the vicinity of the site as determined from the desk study and historical review. Secondly the risk of UXO

<sup>8</sup>[https://www.derelictplaces.co.uk/main/misc-sites/24025-littlehampton-comprehensive-school.html#Xxb\\_ikBFxPY](https://www.derelictplaces.co.uk/main/misc-sites/24025-littlehampton-comprehensive-school.html#Xxb_ikBFxPY)

<sup>9</sup> CIRIA C681 2009. Unexploded ordnance (UXO) - A guide for the construction industry

The Zetica risk maps indicate a moderate risk. Information supplied by Zetica reported that several high explosive bombs fell in close proximity to the site and WWII strategic targets were within 5km of the site boundaries. Hence the overall risk of UXO is rated as moderate.

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Arun District Council Planning Record includes a site investigation report for the landfill site undertaken by Norwest Holst Soil Engineering Ltd dated 1991.

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A review of Arun District Council planning records provides information on a planning application (LU/55/15/OUT) for development of land south of the Littlehampton Academy (the Site) for residential development. The application was refused. Within the application are a number of relevant reports providing some detail on the demolition phases and the stockpiled materials, namely:

[illegible]

A summary of costs for the Elm Grove Road site includes asbestos removal and demolition works at a number of buildings, including Elm Grove County infants school, Elm Grove

[illegible]

Having previously been occupied by the buildings and facilities of Littlehampton Community College it is now bare and vacant following the demolition of all the buildings. There has been some spoil storage on site in association with the neighbouring playing fields.'

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The report details the findings of a site investigation to support the development of the Littlehampton Academy site to the immediate north of the Elm Grove Road site. It also

Gifford record that the WYG investigation comprised seven cable percussive boreholes, focussing on land to the northwest of the former school site. The investigation proved 'brickearth' thicknesses to 4.0 to 6.0 m bgl comprising silty clay with thin laminations of silty fine sand, over Chalk to the full depth (20 m). One borehole was located in the vicinity of the former tank (BH6) and low concentrations of PAHs were recorded, but not in deeper soils. Petroleum hydrocarbons were not detected. Land gas monitoring was undertaken in two wells, but the results were not detailed by Gifford. It is reported that the overall risk of contamination was considered to be low by WYG.

The works comprised four boreholes (BH201 to BH204) to a maximum depth of 20m and four hand dug trial pits (HP201 to 204) to a maximum depth of 1.2m. Gas/groundwater monitoring wells were installed to 7m within the four boreholes. Soil and groundwater samples were taken and analysed for a site of contaminants including metals, PAHs, Petroleum hydrocarbons, and asbestos. In addition, soil gas and vapour monitoring was undertaken, and included measurements of oxygen, methane, carbon dioxide, gas flow, atmospheric pressure and temperature.

The groundwater table was similar across the site, ranging from 0.67m to 1.99 m AoD. The groundwater flow direction was considered to be towards the south east.

None of the contaminants tested exceeded the GACs adopted by Gifford and asbestos was not detected. A groundwater sample was taken from BH201 and analysed for TPH and PAH and all results were reported below the limit of detection.

Land gas monitoring recorded a maximum concentration of 0.5% methane and 3.9% carbon dioxide with a maximum flow rate of 1.1l/hr. An elevated VOC reading of 625 ppm was recorded in BH201 during the last monitoring round. A characteristic situation one (CS1) 'very low risk' was assigned to the site based on bulk gases. However, due to the elevated VOC readings further assessment was recommended to confirm the source. No made ground soils were described on the borehole log for BH201.

3.2.1. The works comprised four trial pits within the vicinity of the access road (TP201-204). Contaminants of interest included metals, PAHs, petroleum hydrocarbons, and asbestos.

Soil conditions encountered comprised of either made ground (to 0.6m) or topsoil (to 0.3m) over Brickearth Deposits to the full depth of investigation (3m).

Three soil samples in total were taken from the trial pits. None of the contaminants that were tested for exceeded the relevant GACs. Asbestos was not detected.

In conclusion, no significant sources of contamination were revealed within the soil. However, a suspected stand of Japanese knotweed was located in close proximity to the proposed access road. The report recommended that a Japanese knotweed specialist was appointed to assess the risks to the proposed development. General recommendations were also made with regards to testing and verifying imported soils before using them on site, and also reporting any unusual ground conditions encountered during works.



Given the age of the school buildings and records found from internet searches asbestos containing material is likely to be present within existing stockpiles (should they be proven to be from demolition waste, although there is some indication that they relate to off-site playing fields) and made ground present on site.

Land underneath the western stockpile was shown to include an earth bund on historical maps dating from the 1980's. The chemical composition of the bund is unknown and could include construction and demolition waste and possibly asbestos.

### h3 (SIX) (SIX)

The desk study has highlighted the following potential off site sources of contamination:

#### h4 (SIX) (SIX) (SIX) (SIX) (SIX)

| (SIX)                   | SIX (SIX) (SIX) (SIX) (SIX) | (SIX) (SIX) (SIX) (SIX) (SIX) |
|-------------------------|-----------------------------|-------------------------------|
| Electrical substation   | 10 m south east             | Polychlorinated biphenyls     |
| Japanese knotweed stand | ~ 180 m southwest           |                               |

Although there is a landfill site approximately 484 m to the north of the site, landfill gases / leachate are not considered to pose a significant risk based on the previous investigations for the Littlehampton Academy site that did not record elevated concentrations of land gas or potential contaminants of concern in groundwater samples.

The Gifford report identified a Japanese knotweed stand associated with the access road for the Littlehampton Academy to the west of the site. Although no stands were noted during the site investigation parts of the site and land to the west were not accessible. At this stage it cannot be conclusively stated that the site or adjacent land has been not been impacted by knotweed.

### h3 (SIX) (SIX)

Potential receptors are those which may be impacted by any of the contaminants of concern identified above, and include the following:-

- ¿ Future residents
- ¿ Construction workers
- ¿ Groundwater ` Secondary A Aquifer
- ¿ Material construction of buildings and infrastructure
- ¿ Neighbouring properties


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The site is underlain by a Secondary A aquifer of medium leaching potential and the combined superficial and bedrock vulnerability is medium. Hence there is a potential pathway for leachate from soil contaminants and for mobile liquid contaminants to enter the groundwater. The water table is anticipated to be 2.0 to 3.0 m bgl.

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The potential contaminant linkages are summarised in the table appended in Appendix E and given a qualitative risk classification in accordance with current guidance. The details of the risk assessment methodology are presented in Appendix E.

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| / IX 2.4.1         | / IX 2.4.2 / IX 2.4.3 / IX 2.4.4                                                                                                          | / IX 2.4.5                                                                                                                        |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Made ground soils: | Non-volatile potential contaminants of concern i.e. metals, metalloids, TPH compounds with carbon bands >C 12, PAHs excluding naphthalene | Moderate risk to construction workers and below ground infrastructure.<br><br>Moderate/low risk future land users and groundwater |





- ¿ Potential solution features within the chalk at depth.
- ¿ Possible source of ground gas associated with deep made ground on site.

On the basis of the initial review and preliminary risk assessment, the site is given a Geotechnical Classification of Geotechnical Category 1 in accordance with EN1997-1 (2.1(14)-(21)).

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The trial holes locations were specified by the Client to give general coverage. However, a number of positions were moved on the day (in agreement with the Client's representatives on site) due to access restrictions and to increase sampling density within the stockpiles in the south and west of the site for chemical characterisation.

Vehicle access was not available in land to the north, south and west of the western stockpile due to dense vegetation.

The investigation rationale for the trial holes is summarised below:

| Client's Location of Window Sampler | Window Sampler                                             | Time to Set Up and Run | Notes                                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WS1                                 | Client positioned WS1 centrally on the western stockpile.  | 6                      | Position relocated to the northeast of western stockpile, as access to the top of the stockpile was not possible for a window sampler rig.<br><br>WS1a-WS1c refused at ~0.30 m on a concrete slab. |
| WS2                                 | Client positioned WS2 centrally on the southern stockpile. | 6                      | Position relocated to the north of southern stockpile, in approximate location of TP1/SA1 as access to the top of the stockpile was not possible for a window sampler rig.                         |
| WS3-WS4                             | As per Client's instruction                                | 6                      | WS3 moved slightly to west due to possible below ground services.<br><br>WS4 terminated at 5.0 m due to dense chalk on SPT                                                                         |
| WS5                                 | Replacement for TP6                                        | 3                      | WS5 was a replacement position for TP6, to allow greater time for JCB-3CX to target additional pits in the stockpile mounds                                                                        |
| TP1/SA1                             | Relocated to west of Client's positions                    | 3                      | Client's position not possible as uneven ground limited safe access for the water bowser.                                                                                                          |

|               |                                         |     |                                                                 |
|---------------|-----------------------------------------|-----|-----------------------------------------------------------------|
| TP2, TP3, TP5 | Approximately as per Client's positions | 3   |                                                                 |
| TP4, TP6-TP10 | Agreed on site with Client              | 2   | Increased number of trial pits to target the southern stockpile |
| TP11-TP12     | Agreed on site with Client              | 2.5 | Increased number of trial pits to target the western stockpile  |

We note that the ground beneath the existing stockpiles in the south of the site and to the west of the site was not investigated due to access limitations and known below ground services in western areas of the site. The geotechnical and chemical composition of soils below the stockpiles are not known at this stage.

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The intrusive investigations were undertaken in a single phase on 22<sup>nd</sup> June 2020. The investigations were undertaken during a period of dry sunny hot weather. Historical weather records showed that average temperatures were above seasonal averages and rainfall only 40% of historical average for April 2020 and May 2020 showed a similar pattern, with higher than average temperatures and lower rainfall records.

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Boreholes were drilled using a windowless sampler rig. The boreholes were excavated at 100 mm diameter, reducing to 80 mm with depth.

The Windowless sampling rig consists of a tracked barrow with a sampling unit mounted on the top. When in the required position, the mast was raised to a height allowing a mechanised drop weight to fall repeatedly onto an anvil, and drive attached sample tubes or probe rods into the ground to produce reasonably intact continuous samples which were then extracted using the integrated hydraulic ram.

To reduce any tendency of the tubes to stick in the ground, a succession of smaller diameters may be used to obtain full depth. Excavated soils were placed aside for inspection and sampling.

On completion the trial hole was backfilled with excavated material, placed in reverse order, and the surface reinstated unless where monitoring well installations were required.

### 3.10.1 Trial pits

Trial pits were dug by a backhoe excavator. The trial pits had a target depth of 3 m bgl and were typically 0.5 m wide by 2.0 m long. Spoil was placed on plastic sheeting to prevent cross-contamination and was replaced in reverse order. Trial pits were left mounded to allow for future settlement.

### 3.10.2 Soil samples

Soil samples were recovered from the boreholes and trial pits for field screening, logging and sampling.

Boreholes were logged in general accordance with the requirements of BS 5930:<sup>10</sup> and BS EN ISO 14688<sup>11</sup>. Borehole logs are presented in Appendix F.

Visual and olfactory evidence of contamination was noted if encountered. These observations were used to aid scheduling of samples for chemical laboratory analyses, and are included on the borehole logs in Appendix F and summarised in Section 13.1.2.

Samples were collected with a clean sampling trowel or by hand (using dedicated nitrile gloves for each sampling location). Samples were placed into laboratory supplied sampling containers, specific to the type of analyses required.

All sample containers were sealed and labelled with a unique location identity, depth and date of sampling.

### 3.11 Monitoring wells

3 No. monitoring wells were installed during this investigation. The monitoring wells were constructed of 50 mm diameter HDPE pipe. The response zone was typically targeted to intercept the groundwater surface and was surrounded by washed filter gravel. The plain zone was surrounded with bentonite to provide a seal. The monitoring wells were finished with bungs with gas taps and raised steel covers. Monitoring well installations are shown on the borehole logs and summarised in the following table.

Table 3.1: Monitoring well installations

| Well ID | Well Type | Well Depth (m) | Well Diameter (mm) | Well Material | Well Location |
|---------|-----------|----------------|--------------------|---------------|---------------|
| WS2     | G & W     | GL-1.0         | 1.0-3.0            | GL-1.0        |               |

<sup>10</sup> BS5930:2015+A1:2020 Code of Practice for Ground Investigation

<sup>11</sup> BS EN ISO 14688 Parts 1-2 (2018) Geotechnical Investigation and Testing. Identification and classification of soil





## 3. DITCH / ICHON

The ground conditions are described in detail in the logs attached in Appendix F. In summary the soil conditions were as follows:

1. 19x9a (SIX MONTHS) & 19x10a

| Stratum<br>I. | Stratum<br>I. | Stratum<br>I.                     | Stratum<br>I.                                                                                                                                                                                                                                                                                                                                                          |
|---------------|---------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.0           | 0.30 / 0.40   | TOPSOIL                           | Light brown to light orangish brown locally reworked slightly gravelly silty clayey TOPSOIL. Gravel is fine to sized rounded flint and occasional brick, chalk, mortar and concrete.                                                                                                                                                                                   |
| 0.0           | 0.25 / 0.50   | MADE GROUND (non-stockpile areas) | Light brown to orangish brown sandy gravelly clayey MADE GROUND. Gravels of brick, concrete, asphalt, sub angular to sub rounded flint. Wire noted in TP1. Black ashy gravelly fill noted in TP2, possible remnant blacktop surface.<br>TP1-TP3, TP5, W S1A-C, W S2-W S5                                                                                               |
| 0.0           | 0.75->2.0     | MADE GROUND (Stockpile areas)     | Grass over light brown to brown sandy clayey slightly gravelly MADE GROUND. Gravels of rounded to sub rounded, sub angular flint, chalk coarse brick and concrete, occasional whole brick.<br>TP6 refused on a concrete obstruction at 0.70 m. A length of electrical cable in TP8 at 0.50 m. A layer of rotted wood chippings in TP10 at 0.70-0.75 m<br>TP4, TP6-TP12 |
| 0.75/1.60     | 1.50/2.50     | MADE GROUND (Stockpile areas)     | Soft dark brown greyish to dark grey slightly gravelly clay MADE GROUND. Slight organic odour (peat or burnt organics). Gravels of rounded to sub-rounded flint. Occasional fine to medium brick gravel. Rare woven plastic membrane or plastic netting plastic tile fragment and rubber seals noted.<br>TP10-TP12                                                     |
| 0.25/0.5      | 1.1/3.0       | CLAY                              | Stiff to firm brown becoming orangish brown CLAY and pale brown becoming orange brown gravelly sandy CLAY occasionally mottled orange. Gravel is fine to coarse sub angular to sub rounded flint. Sand is fine to medium grained.                                                                                                                                      |
| 1.1/1.8       | 2.35/4.10     | SAND                              | Medium dense orange brown to orange or yellowish orange slightly clayey gravelly SAND. Sand is fine to coarse grained. Gravel is fine to coarse sub rounded to sub angular flint.                                                                                                                                                                                      |
| 2.4/2.7       | 4.10/>6.0     | CHALK                             | Soft off white mottled pale orange gravelly SILT or silty GRAVEL (structureless CHALK HEAD)<br>W S2-W S5                                                                                                                                                                                                                                                               |



It is noted that large portions to the west of the site and along the site's southern boundary were inaccessible due to the presence of the stockpiles. Therefore, the ground conditions outlined above correspond to the central, northern, and eastern portions of the site.

Groundwater strikes were recorded in the following trial holes:-

Groundwater monitoring results are summarised as follows:-

It should be noted that groundwater monitoring was undertaken during a period of prolonged dry weather.

Visual (non-aqueous phase liquids, highly discoloured soils) and olfactory (strong hydrocarbon odours etc) signs of land contamination were not noted. However, in near surface soils asphalt gravels were observed in many of the locations. In TP11 and TP12 from 1.20 m and 1.60 m depths respectively a burn organic odour and a slight organic odour were noted respectively.



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| 9- $\mu$ m | 5m         | 10m | 15m | 20m | 25m |
|------------|------------|-----|-----|-----|-----|
| TP1        | 15         | 22  | 69  | 9   | 0   |
| TP5        | 25         | 39  | 57  | 4   | 0   |
| WS4        | 2.0 ~ 2.60 | 35  | 56  | 9   | 0   |
| WS5        | 15         | 13  | 75  | 12  | 0   |

The results of PSD testing undertaken on the sands on site indicate they comprise clayey occasional silty sands with occasional to rare flint gravel.

𐀀𐀁𐀂𐀃𐀄𐀅𐀆𐀇𐀈𐀉𐀊𐀋𐀌𐀍𐀎𐀏𐀐𐀑𐀒𐀓𐀔𐀕𐀖𐀗𐀘𐀙𐀚𐀛𐀜𐀝𐀞𐀟𐀠𐀡𐀢𐀣𐀤𐀥𐀦𐀧𐀨𐀩𐀪𐀫𐀬𐀭𐀮𐀯𐀰𐀱𐀲𐀳𐀴𐀵𐀶𐀷𐀸𐀹𐀺𐀻𐀼𐀽𐀾𐀿𐁀𐁁𐁂𐁃𐁄𐁅𐁆𐁇𐁈𐁉𐁊𐁋𐁌𐁍𐁎𐁏𐁐𐁑𐁒𐁓𐁔𐁕𐁖𐁗𐁘𐁙𐁚𐁛𐁜𐁝𐁞𐁟𐁠𐁡𐁢𐁣𐁤𐁥𐁦𐁧𐁨𐁩𐁪𐁫𐁬𐁭𐁮𐁯𐁰𐁱𐁲𐁳𐁴𐁵𐁶𐁷𐁸𐁹𐁺𐁻𐁼𐁽𐁾𐁿𐂀𐂁𐂂𐂃𐂄𐂅𐂆𐂇𐂈𐂉𐂊𐂋𐂌𐂍𐂎𐂏𐂐𐂑𐂒𐂓𐂔𐂕𐂖𐂗𐂘𐂙𐂚𐂛𐂜𐂝𐂞𐂟𐂠𐂡𐂢𐂣𐂤𐂥𐂦𐂧𐂨𐂩𐂪𐂫𐂬𐂭𐂮𐂯𐂰𐂱𐂲𐂳𐂴𐂵𐂶𐂷𐂸𐂹𐂺𐂻𐂼𐂽𐂾𐂿𐃀𐃁𐃂𐃃𐃄𐃅𐃆𐃇𐃈𐃉𐃊𐃋𐃌𐃍𐃎𐃏𐃐𐃑𐃒𐃓𐃔𐃕𐃖𐃗𐃘𐃙𐃚𐃛𐃜𐃝𐃞𐃟𐃠𐃡𐃢𐃣𐃤𐃥𐃦𐃧𐃨𐃩𐃪𐃫𐃬𐃭𐃮𐃯𐃰𐃱𐃲𐃳𐃴𐃵𐃶𐃷𐃸𐃹𐃺𐃻𐃼𐃽𐃾𐃿𐄀𐄁𐄂𐄃𐄄𐄅𐄆𐄇𐄈𐄉𐄊𐄋𐄌𐄍𐄎𐄏𐄐𐄑𐄒𐄓𐄔𐄕𐄖𐄗𐄘𐄙𐄚𐄛𐄜𐄝𐄞𐄟𐄠𐄡𐄢𐄣𐄤𐄥𐄦𐄧𐄨𐄩𐄪𐄫𐄬𐄭𐄮𐄯𐄰𐄱𐄲𐄳𐄴𐄵𐄶𐄷𐄸𐄹𐄺𐄻𐄼𐄽𐄾𐄿𐅀𐅁𐅂𐅃𐅄𐅅𐅆𐅇𐅈𐅉𐅊𐅋𐅌𐅍𐅎𐅏𐅐𐅑𐅒𐅓𐅔𐅕𐅖𐅗𐅘𐅙𐅚𐅛𐅜𐅝𐅞𐅟𐅠𐅡𐅢𐅣𐅤𐅥𐅦𐅧𐅨𐅩𐅪𐅫𐅬𐅭𐅮𐅯𐅰𐅱𐅲𐅳𐅴𐅵𐅶𐅷𐅸𐅹𐅺𐅻𐅼𐅽𐅾𐅿𐆀𐆁𐆂𐆃𐆄𐆅𐆆𐆇𐆈𐆉𐆊𐆋𐆌𐆍𐆎𐆏𐆐𐆑𐆒𐆓𐆔𐆕𐆖𐆗𐆘𐆙𐆚𐆛𐆜𐆝𐆞𐆟𐆠𐆡𐆢𐆣𐆤𐆥𐆦𐆧𐆨𐆩𐆪𐆫𐆬𐆭𐆮𐆯𐆰𐆱𐆲𐆳𐆴𐆵𐆶𐆷𐆸𐆹𐆺𐆻𐆼𐆽𐆾𐆿𐇀𐇁𐇂𐇃𐇄𐇅𐇆𐇇𐇈𐇉𐇊𐇋𐇌𐇍𐇎𐇏𐇐𐇑𐇒𐇓𐇔𐇕𐇖𐇗𐇘𐇙𐇚𐇛𐇜𐇝𐇞𐇟𐇠𐇡𐇢𐇣𐇤𐇥𐇦𐇧𐇨𐇩𐇪𐇫𐇬𐇭𐇮𐇯𐇰𐇱𐇲𐇳𐇴𐇵𐇶𐇷𐇸𐇹𐇺𐇻𐇼𐇽𐇾𐇿𐈀𐈁𐈂𐈃𐈄𐈅𐈆𐈇𐈈𐈉𐈊𐈋𐈌𐈍𐈎𐈏𐈐𐈑𐈒𐈓𐈔𐈕𐈖𐈗𐈘𐈙𐈚𐈛𐈜𐈝𐈞𐈟𐈠𐈡𐈢𐈣𐈤𐈥𐈦𐈧𐈨𐈩𐈪𐈫𐈬𐈭𐈮𐈯𐈰𐈱𐈲𐈳𐈴𐈵𐈶𐈷𐈸𐈹𐈺𐈻𐈼𐈽𐈾𐈿𐉀𐉁𐉂𐉃𐉄𐉅𐉆𐉇𐉈𐉉𐉊𐉋𐉌𐉍𐉎𐉏𐉐𐉑𐉒𐉓𐉔𐉕𐉖𐉗𐉘𐉙𐉚𐉛𐉜𐉝𐉞𐉟𐉠𐉡𐉢𐉣𐉤𐉥𐉦𐉧𐉨𐉩𐉪𐉫𐉬𐉭𐉮𐉯𐉰𐉱𐉲𐉳𐉴𐉵𐉶𐉷𐉸𐉹𐉺𐉻𐉼𐉽𐉾𐉿𐊀𐊁𐊂𐊃𐊄𐊅𐊆𐊇𐊈𐊉𐊊𐊋𐊌𐊍𐊎𐊏𐊐𐊑𐊒𐊓𐊔𐊕𐊖𐊗𐊘𐊙𐊚𐊛𐊜𐊝𐊞𐊟𐊠𐊡𐊢𐊣𐊤𐊥𐊦𐊧𐊨𐊩𐊪𐊫𐊬𐊭𐊮𐊯𐊰𐊱𐊲𐊳𐊴𐊵𐊶𐊷𐊸𐊹𐊺𐊻𐊼𐊽𐊾𐊿𐋀𐋁𐋂𐋃𐋄𐋅𐋆𐋇𐋈𐋉𐋊𐋋𐋌𐋍𐋎𐋏𐋐𐋑𐋒𐋓𐋔𐋕𐋖𐋗𐋘𐋙𐋚𐋛𐋜𐋝𐋞𐋟𐋠𐋡𐋢𐋣𐋤𐋥𐋦𐋧𐋨𐋩𐋪𐋫𐋬𐋭𐋮𐋯𐋰𐋱𐋲𐋳𐋴𐋵𐋶𐋷𐋸𐋹𐋺𐋻𐋼𐋽𐋾𐋿𐌀𐌁𐌂𐌃𐌄𐌅𐌆𐌇𐌈𐌉𐌊𐌋𐌌𐌍𐌎𐌏𐌐𐌑𐌒𐌓𐌔𐌕𐌖𐌗𐌘𐌙𐌚𐌛𐌜𐌝𐌞𐌟𐌠𐌡𐌢𐌣𐌤𐌥𐌦𐌧𐌨𐌩𐌪𐌫𐌬𐌭𐌮𐌯𐌰𐌱𐌲𐌳𐌴𐌵𐌶𐌷𐌸𐌹𐌺𐌻𐌼𐌽𐌾𐌿𐍀𐍁𐍂𐍃𐍄𐍅𐍆𐍇𐍈𐍉𐍊𐍋𐍌𐍍𐍎𐍏𐍐𐍑𐍒𐍓𐍔𐍕𐍖𐍗𐍘𐍙𐍚𐍛𐍜𐍝𐍞𐍟𐍠𐍡𐍢𐍣𐍤𐍥𐍦𐍧𐍨𐍩𐍪𐍫𐍬𐍭𐍮𐍯𐍰𐍱𐍲𐍳𐍴𐍵𐍶𐍷𐍸𐍹𐍺𐍻𐍼𐍽𐍾𐍿𐎀𐎁𐎂𐎃𐎄𐎅𐎆𐎇𐎈𐎉𐎊𐎋𐎌𐎍𐎎𐎏𐎐𐎑𐎒𐎓𐎔𐎕𐎖𐎗𐎘𐎙𐎚𐎛𐎜𐎝𐎞𐎟𐎠𐎡𐎢𐎣𐎤𐎥𐎦𐎧𐎨𐎩𐎪𐎫𐎬𐎭𐎮𐎯𐎰𐎱𐎲𐎳𐎴𐎵𐎶𐎷𐎸𐎹𐎺𐎻𐎼𐎽𐎾𐎿𐏀𐏁𐏂𐏃𐏄𐏅𐏆𐏇𐏈𐏉𐏊𐏋𐏌𐏍𐏎𐏏𐏐𐏑𐏒𐏓𐏔𐏕𐏖𐏗𐏘𐏙𐏚𐏛𐏜𐏝𐏞𐏟𐏠𐏡𐏢𐏣𐏤𐏥𐏦𐏧𐏨𐏩𐏪𐏫𐏬𐏭𐏮𐏯𐏰𐏱𐏲𐏳𐏴𐏵𐏶𐏷𐏸𐏹𐏺𐏻𐏼𐏽

|                        |        |
|------------------------|--------|
| SPT 'N' value          | 6 - 37 |
| Sulphate Content (g/l) | <0.010 |
| pH                     | 7.7    |

The results of Standard Penetration testing indicate that sands range from loose to dense. However, it is noted that loose sands were encountered within WS3 and WS5 only. Furthermore SPT  $N_{60}$  values in both WS3 and WS5 decreased in proximity to chalk rock head. This may be indicative of poorly consolidated soils overlaying or infilling a solution feature.

## 323/2494

The sands were underlain by chalk to depth.

Classification of the chalk to CIRIA C 574<sup>16</sup> was not possible due to the disturbed nature of the samples recovered from the windowless sampler boreholes. However, Standard Penetration Tests undertaken in the chalk returned SPT blow counts ranging from N=11 to N=51, indicating structureless and intact chalk. The chalk recovered was not suitable for saturated moisture content testing however field observation indicated it was low density chalk. SPT blow counts generally increased with depth within the chalk.

<sup>16</sup> CIRIA C574 Engineering in Chalk (2002)





### 3E (0100000)

Two samples of the clays and one sample of the sands were tested for sulphate content and pH. In accordance with the BRE<sup>17</sup> methodology and the number of samples tested the site has been classified on the highest measured sulphate content.

Based on the results detailed in Section E and the above, both the clays and sands are classified by the BRE as sulphate design class DS-1, and, assuming a mobile groundwater table, the AC EC class is AC-1.

### 3U D1000000 1000000

Groundwater was encountered within only one excavation during the investigation at a depth of 5.0m bgl. However, it is noted that the investigation was undertaken in the summer months during a period of unusually dry weather.

The groundwater monitoring results are given in Section D. On the basis of the monitoring undertaken groundwater at about 5m below ground level should be anticipated. It is again of note that monitoring was undertaken during a particularly dry period. Furthermore, portions of the site are mapped as being at a potential risk of groundwater flooding and as such groundwater level on site may be significantly higher during winter months.

Long term groundwater monitoring was beyond the scope of works and would be expected to be required to confirm the depth of the unsaturated zone if soakaways are to be utilised on site.

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### 35-1000000 1000000

One soakage tests was undertaken on site in accordance with BRE365<sup>18</sup>. Given the time restrictions, and the low permeability of the soils, it was only possible to fill and test the pit once. The results are attached in Appendix J and are summarised below:

<sup>17</sup> Building Research Establishment Special Digest 1: 2005. Concrete in aggressive ground. Part 1: Assessing the aggressive chemical environment.

<sup>18</sup> Building Research Establishment DG365: 2016. Digest Soakaway Design

### Table 1: Soakaway Test Results

| Test Point | Soakaway Rate |                       | Notes                                                                                                                         |
|------------|---------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
|            | L/s           | l/m <sup>2</sup> /min |                                                                                                                               |
| TP1        | 3.88E-06      | 0.233                 | Water level did not fall by the required 75% of maximum water depth and as such the results are not compliant with BRE DG365. |

The soakage testing undertaken on site returned a relatively poor soakage rate of 3.88E-06 m/s (0.233 l/m<sup>2</sup>/min).

### Soakaway Recommendations

Based on the above results, shallow soils on site are not considered suitable for conventional soakaways. Improved soakage rates may be achieved if soakaways were deepened into the underlying chalk, encountered below 2.4m to 4.1m across the site however, further full scale soakage testing would be required to confirm this.

The site is not situated within a groundwater Source Protection Zone however, the site is situated above the chalk principal aquifer. It is therefore recommended that discussion is undertaken with the Environment Agency regarding soakaway discharge into the chalk. Generally, an unsaturated zone is required between the discharge zone and the groundwater. According to the current Environment Agency Positions Statements (GP3<sup>[1]</sup>) it is considered likely that soakaways will not be acceptable where direct discharge to groundwater will occur or where surface water run-off from areas where potentially contaminated run-off may occur (e.g. car parking and access roads). Discharges of surface water to ground may be permitted by the Environment Agency, where an unsaturated zone is present (allowing for seasonal variability) and will need to form part of an appropriately designed drainage scheme in accordance with The SuDS Manual CIRIA C 753<sup>19</sup>.

Continued groundwater monitoring over the winter months may be required to ascertain the depth of unsaturated zone during periods where groundwater levels will be highest.

[1] Environment Agency, The Environment Agency's Approach to Groundwater Protection (GP3): 2017

<sup>19</sup> CIRIA C 753 The SuDS Manual (2015)

Furthermore, CIRIA C574 outlines that where soakaways are to be extended into chalk of a low density or where density is unknown then they must be situated at least 10m from the nearest building foundation. CIRIA also highlights that for sites where solution features are known to be prevalent then soakaways must be situated 20m from any building foundations. As such confirmatory probing and testing at proposed soakaway locations would be advised.

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Where foundations are stepped or span different soil types, allowance should be made for nominal reinforcement.

Excavation undertaken on the eastern side of the site encountered loose sands at depth which may be indicative of a solution feature. Additionally, LEAP is aware that potential solution features have been encountered in the vicinity of the site.

Foundation trenches should be inspected to ensure competent soils are encountered at founding level, and probing of the foundations is recommended to locate any soft areas (SPT N value should be >10 blow counts/300mm). Should localised loose soils due to solution features be found to be present, then foundations may be designed to bridge over them in accordance with CIRIA C 574.

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With reference to NHBC Standard 5.2, suspended floor slabs are recommended:-

Where the depth of fill exceeds 600mm

BS8103-1:2011 Structural design of low-rise buildings. Code of practice for stability, site investigations, foundations, precast concrete floors and ground floor slabs for housing





the winter months. If excavations are likely to be excavated or remain open during winter months allowance should be made for light pumping.

Appropriate Health and Safety precautions must be adhered to where man entry into excavations is required. Even stiff clay soils at shallow depth can collapse, particularly following wet weather. Alternative foundation methods may need to be adopted where trench footings cannot be safely or satisfactorily constructed.

## to CONE

The preliminary recommendations contained within this report assume that ground levels are to remain at a similar level across the site for the proposed development, and that no significant changes in level are proposed. In the event that ground levels are to be raised, this may induce significant settlement, particularly across the areas of deep made ground or solution features, which could adversely affect foundation design, drainage etc. Where significant changes in ground levels are proposed then further investigation will be required to assess the impact of such earthworks on the above recommendations.

It is noted that the geotechnical quality of the stockpiled soils would be expected to preclude them from re-use on site, at least without significant amelioration and removal of unsuitable materials, and appropriate environmental permitting.

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Based on the allowable bearing capacity given in Section 19, settlements should be within typical tolerable limits for the low rise development proposed.

If soft clays are encountered at formation level or below, significant settlement should be anticipated and serviceable limit state analyses will be required.

At this stage it is assumed that ground levels will remain at the current level for the proposed development. If significant level raises are proposed, this may induce significant settlement in the natural soils and detailed settlement analyses will be required.

Where foundations are stepped or span different soil types, differential settlement should be anticipated and allowance should be made for nominal reinforcement.

## to 1000000 1000000 - 1000000

In accordance with NHBC Standards Chapter 4.2, precautions against heave should be used where foundations are within the influence of trees and the resulting foundation depth is greater than 1.5m. Compressible material must be provided against the inside faces of all external wall foundations greater than 1.5m in depth. For pier and beam foundations, additional voids are required below ring beams.

~~ALL INFORMATION CONTAINED~~

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- ¿ Investigation beneath the stockpiles following their removal from site;
- ¿ Additional investigation in the eastern portion of the site to assess the extent of the loose sands and the density of the underlying chalk;
- ¿ Further soakage testing extended into the chalk at depth;
- ¿ Further groundwater level monitoring undertaken during the winter to assess the maximum groundwater level.

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On-site sources of contamination likely to impact the site include heavy metal, PAH and asbestos within made ground demolition works and possible historical bund below the western stockpile. The existing stockpiles are not considered to pose a significant risk to future land users, as it is assumed that they will be required to be removed from site during construction works.

An off-site potential electrical substation has been identified to the southeast of the site, which has the potential to cause contaminant migration onto site. The risk to human receptors from this off site sources is considered to be low.

[illegible]

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The ground investigation was part of a pre-purchase due diligence assessment. The trial hole locations were client specified with a strategy to provide a non-targeted sampling strategy to identify ground conditions. The stockpiles were targeted with a slightly higher sampling density, as these were considered to be higher risk with respect to land contamination than elsewhere.

Samples have been tested for the presence of the identified contaminants of concern (heavy metals, PAH compounds and asbestos). No visual or olfactory signs of petroleum hydrocarbon contamination were noted during the intrusive works.

Selected samples have been tested for waste classification purposes.

[illegible]

Monitoring wells have been located to allow determination of the groundwater regime beneath the site, including groundwater flow direction and/or groundwater quality.

Groundwater levels have been monitored on 2 No. occasions using a dip meter.

## Initial Land Gas Investigation

The initial land gas investigation strategy has been designed generally to provide a preliminary evaluation of the land gas risk at the site and only a limited number of monitoring visits were allowed within the scope of investigation.

The placement of gas monitoring wells has been considered to provide a general coverage, based on a preliminary non-targeted investigation of ground gas risks at the site.

At the end of the monitoring period an assessment of the sufficiency of data will be undertaken with reference to Annex F of BS8576:2013. Further monitoring may be required.

## Generic Quantitative Risk Assessment

### Generic Quantitative Risk Assessment (GQRA)

The generic quantitative risk assessment (GQRA) for human health compares the analytical results from the current investigation to Generic Assessment Criteria (GAC). These were selected using the following rationale and assumptions.

Defra and the EA have published a limited number of Soil Guideline Values (SGVs)<sup>23</sup> that represent minimal chronic risk to human health. CL:AIRE has published a limited number of Category Four Screening Levels (C4SLs)<sup>24</sup> which represent a low but still strongly precautionary level of chronic risk to human health. Both the SGVs and C4SLs have been derived for a Soil Organic Matter (SOM) content of 6%, which is not always representative of the low SOM that are encountered within Made Ground on brownfield sites.

LQM responded to the demand for a more comprehensive set of screening values for a wider range of SOM and produced Suitable for Use Levels (S4ULs)<sup>25</sup> which are a hybrid of SGVs and C4SLs. The S4ULs have been endorsed by the Chartered Institute of Environmental Health (CIEH).

LEAP uses C4SLs where they are available as generic assessment criteria to quantitatively assess the potential chronic risks to human health. Where C4SLs are not available, the S4ULs are used. It is noted that S4ULs are not equivalent to C4SLs in all their exposure assumptions but are generally more conservative in their assumptions. For benzene and benzo(a)pyrene,

<sup>23</sup> Environment Agency Science Report SC050021 series.

<sup>24</sup> CL:AIRE Final Project Report. SP1010 'Development of Category 4 Screening Levels for assessment of land affected by contamination. CL:AIRE, December 2013

<sup>25</sup> The LQM/CIEH S4ULs for Human Health Risk Assessment, Nathaniel P et al, 2015. Copyright Land Quality Management Ltd, reproduced with permission: Publication Number S4UL3509

In accordance with current Public Health England (PHE) guidance<sup>26</sup>, the assessment of PAHs has been carried out using a surrogate marker approach, whereby the assessment of risk from benzo(a)pyrene also captures potential risks from other carcinogenic PAHs that may be present. The alternative S4ULs for PAHs using the Toxic Equivalent Factor (TEF) approach have not been used because this approach is likely to under predict the true carcinogenicity of PAHs and is not advocated by PHE. The threshold PAHs have been assessed similarly, by using naphthalene as a marker compound due to its high volatility relative to other PAHs.

Theoretical soil saturations have not been considered in the evaluation of organic compounds and as such, some of the S4ULs for the less sensitive exposure scenarios are lower than their more sensitive equivalents.

For some contaminants of concern, direct contact will be the dominant pathway for exposure. In order to support with development options, human exposure to all unsaturated soils, irrespective of depth, was assumed possible for the purpose of this assessment. This will maximise the information available to the design team on the suitability of all unsaturated material and can support with their materials management options.

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In assessing soil test results and comparing them to any threshold or screening value, an assessment must first be made as to how accurately the test results reflect the true mean of the contaminant level within the ground. In this assessment for each parameter the test data have been subjected to statistical assessment based on the methodology set out in CIEH report 2008: Guidance on comparing Soil Contamination Data with a Critical Concentration. The Upper Confidence Level or  $U_{95}$  value is thereby calculated as being the level at which we would be 95% confident that the true mean is less than this value. For the purposes of this assessment,

<sup>26</sup> HPA Contaminated Land Information Sheet. Risk Assessment Approaches for Polycyclic Aromatic Hydrocarbons (PAHs). Public Health England, 2017.

It should be noted that for the purposes of these assessments, no statistical outliers have been excluded.

An initial assessment has been made using the method outlined in BS8485:2015. Gas concentrations and borehole flow rate are combined to provide Gas Screening Values for both Carbon Dioxide and Methane. In this assessment the highest concentrations have been combined with the highest flow rates to provide a conservative Tier 1 assessment.

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The soil samples have been subdivided into two populations representing the stockpiled areas (western and southern stockpiles) and the non-stockpiled areas. Full screening tables are provided in Appendix K.

[illegible]

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|----------------------|---------------------------|-------------------------------|---------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------|
| Arsenic              | 10.5                      | 12.6                          | 9                   | 37                                                                          | 0                                                         |
| Cadmium              | <0.5                      | <0.5                          | 9                   | 22                                                                          | 0                                                         |
| Hexavalent Chromium  | <0.8                      | <0.8                          | 9                   | 21                                                                          | 0                                                         |
| Copper               | 23                        | 25.7                          | 9                   | 2,400                                                                       | 0                                                         |
| Lead                 | 53                        | 79.4                          | 9                   | 200                                                                         | 0                                                         |
| Mercury <sup>1</sup> | <0.5                      | <0.5                          | 9                   | 40 <sup>1</sup>                                                             | 0                                                         |



|        |      |      |   |       |   |
|--------|------|------|---|-------|---|
| Nickel | 17.4 | 21.3 | 9 | 130   | 0 |
| Zinc   | 81.2 | 119  | 9 | 3,700 | 0 |

Notes to table

1. Assessment criterion based on inorganic mercury

PAHs are widespread within made ground and the urban environment generally. They are one of the most common contaminants in made ground and the one that most commonly drives remediation. Benzo(a)Pyrene is a particular problem, being very commonly found in association with tarmac, clinker and any burnt products and also being highly toxic to human health.

| Site                 | 1.000 | 2.000 | 3.000 | 4.000           | 5.000 |
|----------------------|-------|-------|-------|-----------------|-------|
| Arsenic              | 11.4  | 13.3  | 9     | 37              | 0     |
| Cadmium              | <0.5  | 0.6   | 9     | 22              | 0     |
| Hexavalent Chromium  | <0.8  | 0.8   | 9     | 21              | 0     |
| Copper               | 22.1  | 27.6  | 9     | 2,400           | 0     |
| Lead                 | 49.9  | 102   | 9     | 200             | 0     |
| Mercury <sup>1</sup> | 0.5   | 0.5   | 9     | 40 <sup>1</sup> | 0     |
| Nickel               | 19.9  | 23.9  | 9     | 130             | 0     |
| Zinc                 | 126.5 | 287   | 9     | 3,700           | 0     |

Notes to table

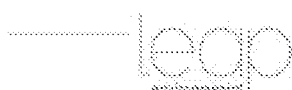
1. Assessment criterion based on inorganic mercury

No metals or non-metals were detected above soil screening criteria in the soil samples tested.

PAHs are widespread within made ground and the urban environment generally. They are one of the most common contaminants in made ground and the one that most commonly drives remediation. Benzo(a)Pyrene is a particular problem, being very commonly found in association with tarmac, clinker and any burnt products and also being highly toxic to human health.

PAHs are widespread within made ground and the urban environment generally. They are one of the most common contaminants in made ground and the one that most commonly drives remediation. Benzo(a)Pyrene is a particular problem, being very commonly found in association with tarmac, clinker and any burnt products and also being highly toxic to human health.

The results are summarised as follows:



11/11/11

Table 19.9a: Soil screening criteria for PAHs in the stockpile area

| PAH                         | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) |
|-----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Benzo(a)pyrene <sup>1</sup> | 3.3                             | 27.0                            | 9                               | 16.2                            | 25%                             | 5.0                             | TP9 at 1.50 m                   |
| Naphthalene <sup>2</sup>    | 0.1                             | 0.3                             | 9                               | n.c.                            | n.c.                            | 2.3                             | 0                               |

Notes to table

1. As a surrogate marker for genotoxic PAH
2. As a marker compound for threshold PAH
3. n.c.= not calculated

In the stockpile samples tested only one soil sample recorded benzo(a)pyrene at concentrations above the soil screening criteria, namely TP9 at 1.50 m. C linker was described as present by the laboratory in this soil sample. The upper confidence limit at 16.2 mg/kg is above the screening criteria of 5 mg/kg, although the standard deviation is 8.9 mg/kg. An increased number of soil samples tested will provide a more accurate evaluation of the UCL of the mean.

TP9 was collected from the southern stockpile area. The western stockpile area did not record potential contaminants of concern at concentrations above screening criteria, although only three samples were tested from the western stockpile.

Table 19.9a: Soil screening criteria for PAHs (mg/kg)

| PAH                         | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg) | Soil screening criteria (mg/kg)                                                                                     |
|-----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Benzo(a)pyrene <sup>1</sup> | 22.1                            | 77.8                            | 11                              | 59.9                            | 0%                              | 5.0                             | TP1 at 0.20 m<br>TP2 at 0.15 m<br>TP3 at 0.20 m<br>TP5 at 0.20 m<br>WS2 at 0.20 m<br>WS4 at 0.10 m<br>WS5 at 0.20 m |
| Naphthalene <sup>2</sup>    | 0.3                             | 1.1                             | 11                              | n.c.                            | n.c.                            | 2.3                             | 0                                                                                                                   |

Notes to table

1. As a surrogate marker for genotoxic PAH
2. As a marker compound for threshold PAH
3. n.c.= not calculated

In the non-stockpile samples tested seven made ground soil samples recorded benzo(a)pyrene at concentrations above the soil screening criteria. Clinker, tar and asphalt gravels were described on exploratory hole logs and on the laboratory test certificates in these samples. Three samples collected from the River Terrace Deposits did not record elevated concentrations of benzo(a)pyrene.

The upper confidence limit at 59.9 mg/kg is above the screening criteria of 5 mg/kg, although the standard deviation is 28.8 mg/kg. An increased number of soil samples tested will provide a more accurate evaluation of the UCL of the mean.

## 16x21x PL] 17x PL]

All of the soil samples tested were screened for the presence of asbestos containing materials and/or loose asbestos fibres. Asbestos was not detected in any of the soil samples.

## 16x 17x PL] 17x PL] a 16x21x PL] 17x PL]

The gas monitoring results are summarised in Table 22 below:

16x 17x PL] 17x PL] 16x21x PL] 17x PL] 16x21x PL] 17x PL]

| a 16x21x PL]<br>16x21x PL] 17x PL]<br>17x PL] | a 16x21x PL] 17x PL] 16x21x PL] 17x PL] |                            |                            |                            |                              |                       |                       |
|-----------------------------------------------|-----------------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|-----------------------|-----------------------|
|                                               | /h <sub>o</sub><br>17x PL]              | /1 <sub>o</sub><br>17x PL] | /h <sub>o</sub><br>17x PL] | /h <sub>o</sub><br>17x PL] | 0.0x <sub>o</sub><br>17x PL] | 16x21x PL]<br>17x PL] | 16x21x PL]<br>17x PL] |
| Visit 1: 30 <sup>th</sup> June 2020           |                                         |                            |                            |                            |                              |                       |                       |
| WS2                                           | 3.20                                    | 0.10                       | 0.0                        | 17.50                      | 0.0                          | 1009                  | No                    |
| WS3                                           | 4.30                                    | 0.20                       | 0.0                        | 16.40                      | 0.0                          | 1009                  | No                    |
| WS4                                           | 2.20                                    | 0.10                       | 0.0                        | 19.30                      | 0.0                          | 1009                  | No                    |
| Visit 2: 8 <sup>th</sup> July 2020            |                                         |                            |                            |                            |                              |                       |                       |
| WS2                                           | 4.20                                    | 0.20                       | 0.0                        | 16.30                      | 0.0                          | 1016                  | No                    |
| WS3                                           | 4.40                                    | 0.20                       | 0.0                        | 19.90                      | 0.0                          | 1016                  | No                    |
| WS4                                           | 2.10                                    | 0.20                       | 0.0                        | 18.80                      | 0.0                          | 1016                  | No                    |

Notes to table

\* With the exception of Oxygen which is recorded as minimum

The two rounds of land gas monitoring recorded slightly elevated concentrations of carbon dioxide in all monitoring wells, but without any corresponding gas flow rates. Methane and carbon monoxide were not at elevated concentrations. A slightly reduced oxygen concentration was recorded in W S2 and W S3 during the first monitoring round and only in W S2 during the second monitoring round.

All monitoring rounds were completed during high or rising atmospheric pressure conditions, as such may not be representative of 'worst' case conditions.

## 1.1.1.1.1

### 1.1.1.1.1.1

The works carried out to date have indicated that the in the 'non-stockpile' areas made ground soils beneath the site are impacted with the PAH compound benzo(a)pyrene.

Whilst the assessment has not found any other significant contamination, access into some areas, namely beneath the existing stockpiles, has not been possible and there remains the possibility that as yet unidentified contamination may be present.

The benzo(a)pyrene contamination identified poses a risk to human health, where present in critical areas such as gardens or areas of soft landscaping. Contamination may impact human health through the direct ingestion, inhalation, skin contact and/or plant uptake pathways that would be present in a residential setting. The contaminated ground is considered to pose an unacceptable risk if it is to be retained in the near surface of garden/outdoor soft landscaped areas where direct human contact is feasible.

The contamination may pose a risk to incoming water via permeation into supply lines. The use of barrier pipes may be required by the water supplier.

Some remediation to mitigate risk to human health from benzo(a)pyrene impacted made ground soils is likely to be required and it is recommended that a remediation strategy for the site is prepared following further investigations. At this stage allowance for a minimum of 600mm clean cover in proposed gardens or to natural ground (whichever is shallowest) should be made, together with an additional allowance for further excavation of localised areas of deeper contaminated soils.

The stockpiled material recorded one sample with a concentration of benzo(a)pyrene above screening criteria. This suggests that there may be localised contamination within the stockpiles. However, we note that the stockpile investigations were limited as access was restricted across the majority of the southern stockpile and samples were mainly collected from the northern face, and only one exploratory hole was possible from the top of the stockpile. In the western stockpile only two trial pits were excavated into the material. Regardless of the chemical quality, it is anticipated that the geotechnical quality of the stockpiled soils would render them unsuitable for retention on site, at least without significant amelioration and removal of unsuitable soils - see waste section.

### 1.1.1.1.1.2

#### 1.1.1.1.1.2.1

The site is located above a secondary aquifer (River Terrace Deposits) and the Principal Aquifer, the Chalk. The site is not situated within a potable water supply Source Protection Zone. The nearest source protection zone is located ~2.1 km to the east of the site.

Specific groundwater laboratory testing has not been carried out as part of this investigation.

Concentrations of potential contaminants of concern recorded in on site soils are generally low (with the exception of benzo(a)pyrene) and mean average concentrations in soil samples tested by LEAP are analogous to normal background concentrations in the UK i.e., with the exception of benzo(a)pyrene, are unlikely to pose an additional burden to the aquifers than average UK soils.

Table 1: Mean average concentrations of potential contaminants of concern in on site soils compared to background concentrations in the UK

| Contaminant    | Mean average concentration in on site soils (mg/kg) | Background concentrations in the UK (mg/kg) |                         |
|----------------|-----------------------------------------------------|---------------------------------------------|-------------------------|
|                |                                                     | Soils in the UK (mg/kg)                     | Soils in the UK (mg/kg) |
| Arsenic        | 32                                                  | 10.5                                        | 11.4                    |
| Cadmium        | 1                                                   | 0.5                                         | 0.5                     |
| Copper         | 62                                                  | 23                                          | 21.1                    |
| Mercury        | 0.5                                                 | 0.5                                         | 0.5                     |
| Nickel         | 42                                                  | 17.4                                        | 19.9                    |
| Lead           | 180                                                 | 53.0                                        | 46.9                    |
| Benzo(a)pyrene | 0.5                                                 | 3.3                                         | 22.1                    |

Benzo(a)pyrene is not anticipated to pose a significant issue to the underlying aquifer post development on the basis that made ground soils (containing benzo(a)pyrene) are not suitable in soft landscaped and private garden areas and will require removal; the near surface River Terrace Deposits contain a high clay content with only a moderate conductivity rate, as such will retard contaminant migration to the underlying Chalk Aquifer; and permeable areas will be reduced following construction of new roads and buildings.

## Gas Screening Values

Adopting the methods described in sections 28.3 and 29.2, and assuming a gas flow rate of say 0.1l/hr, then Gas Screening Values would be calculated for both methane and carbon dioxide for the site as follows:

Table 2: Gas Screening Values for methane and carbon dioxide

| Contaminant    | Gas Screening Value (mg/kg) | Background concentration (mg/kg) |
|----------------|-----------------------------|----------------------------------|
| Methane        | 1.0                         | 1.0                              |
| Carbon dioxide | 1.0                         | 1.0                              |

Adopting the modified Card and Wilson classification system as set out in BS8485:2015 then the gas regime would be classified as CS1 very low risk.

Although no putrescible or landfill material have been identified in site soils outside of the stockpiled areas only to ground gas monitoring rounds were undertaken during high atmospheric pressure conditions.

Further land gas monitoring is recommended given the sensitivity of the land use and the slightly raised concentrations of carbon dioxide in W S2 and W S3.

to 5000

Testing of the stockpiles located along the southern and western sides of the site has been carried out by LEAP. However, on the basis that no permit information has been supplied to date for the import of the material, all stockpiles are classified as waste. The waste should be disposed of at a licensed facility or recovered under an appropriate environmental permit.. If the waste is left on site the site owner may be liable to being taxed at the higher rate of landfill tax and fined to the same amount. LEAP has contacted Arun District Council and they hold no records for the stockpiles. The Environment Agency has not responded to our request for information at time of writing.

At this stage, and based on a limited amount of soil testing a non-hazardous classification can be assumed for the stockpiled waste, with the exception of soil around TP9, where the benzo(a)pyrene concentration may be indicative of coal tar, which is a hazardous waste. Preliminary hazardous waste classification results are provided in Appendix L.

Two soil samples collected from the stockpiles were tested for waste assessment classification (WAC) purposes, namely TP11 at 0.5 m and TP11 at 2.5 m. These samples were preliminary classified as non-hazardous, based on the total soil tests, and meet the threshold criteria for inert waste.

WAC testing was not undertaken on sample TP9 at 1.5 m, but the total PAH concentration exceeds the threshold criteria for inert waste. As a minimum, the soils around TP9 would be classified as non-hazardous and possibly hazardous subject to further testing to determine whether coal tar is present.

With respect to the shallow made ground soils in non-stockpile areas, which in places recorded benzo(a)pyrene above 50 mg/kg, these soils are assumed to be above the threshold for coal tar (0.1%) and would be classified as hazardous waste if disposed of offsite. Soils with benzo(a)pyrene concentrations within the >25 to 50 mg/kg range could be

Where soils are to be disposed off-site, it is the duty of the waste producer to ensure that all waste is disposed of appropriately and that any that is sent to landfill is sent to an appropriately licensed one. All waste sent to landfill must be classified and must be pre-treated. There are various forms of pre-treatment that are acceptable. In this case it could include 'reduction in volume', which could be achieved by segregating the Made Ground and re-using part of it on site.

Further testing and inspection of soils will be required to confirm waste classification of material leaving the site.

It is strongly advised that detailed discussions be held with remediation/groundworks contractors and that receiving landfill sites are identified in advance of commencing any waste removal.

Based on the findings of the site investigation the shallow made ground soils are not suitable for the proposed land use as residential with private gardens. At this stage allowance for a minimum of 600mm clean cover in proposed gardens or to natural ground (whichever is shallowest) should be made, together with an additional allowance for further excavation of localised areas of deeper contaminated soils.

Access into some areas of the site was restricted due to dense vegetation and the stockpiles of waste material. It is recommended that once the stockpiles are removed further intrusive investigation is undertaken beneath their footprints.

Based on the results of the gas risk assessment, the gas regime has been classified as CS1 or very low risk in accordance with in BS8485, but this is based on a limited number of land gas visits. Further monitoring is recommended to confirm this characteristic situation.

Further investigation of the stockpiles is recommended, not only to confirm the chemical characteristics of the material, but to ascertain whether an environmental permit exists for their storage on site.

<sup>27</sup> The Definition of Waste: Development Industry Code of Practice, Version 2 2011, CL:AIRE



Following the additional investigation a remediation strategy to mitigate risks to the proposed development from identified contamination should be prepared.

11 9b5 1A ☒ 01 04 00 X

## Limitations

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk. Unless explicitly agreed otherwise in writing this report has been prepared under LEAP's standard terms and conditions, as included in the quotation for this work.

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed. LEAP cannot be held responsible for any disclosures or changes in regulation that are provided post production of this report, and will not automatically update the report.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted, and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

The extent of the exploratory holes, laboratory testing and monitoring undertaken may have been restricted due to a number of factors including accessibility, the presence of buried or overhead services, current development and site usage, timescales or clients specification. The exploratory holes only assess a small proportion of the site area with respect to the site as a whole, and as such may only provide an overall assessment of ground conditions on site. The presence of hotspots of undisclosed contamination or exceptional and unforeseen ground conditions cannot be discounted.

Eurocode 7 gives guidance on the type of sampling, sample quality, number and spacing of intrusive investigations, and number of laboratory tests required. It is intended that the Geotechnical Information section of this report will fulfil the general requirements of the Ground Investigation Report as set out in section 6 of Eurocode7<sup>28</sup>, although this is subject to the restrictions imposed on the investigation as listed above. For geotechnical design, Eurocode 7 requires the Geotechnical Design Report to address both the geotechnical and

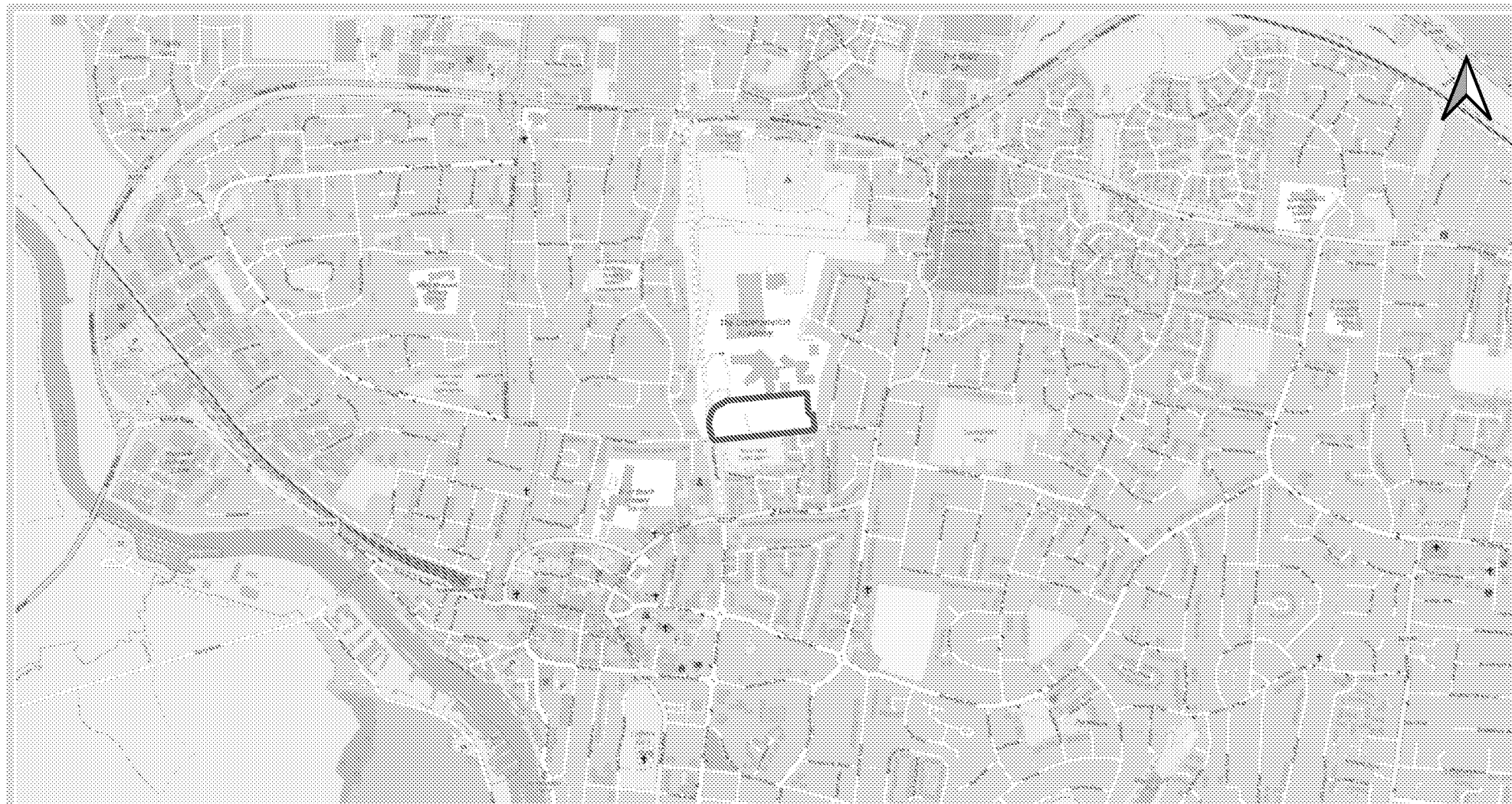
<sup>28</sup> BS EN 1997 Eurocode 7- Geotechnical Design - Part 1: General Rules (2004) and Part 2: Ground Investigation and Testing (2007)

structural aspects of the geotechnical design for both the limit and serviceability states. The Geotechnical Appraisal section of this report will not meet the requirements of a Geotechnical Design Report (GDR), and should therefore be used for preliminary guidance only.

The presence of asbestos may be noted during the site walkover survey, intrusive investigations and/or from the results of contamination testing. However, this report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

## APPENDIX B - Figures

Figures



Basemap: © OpenStreetMapcontributors

 Site boundary



Client:

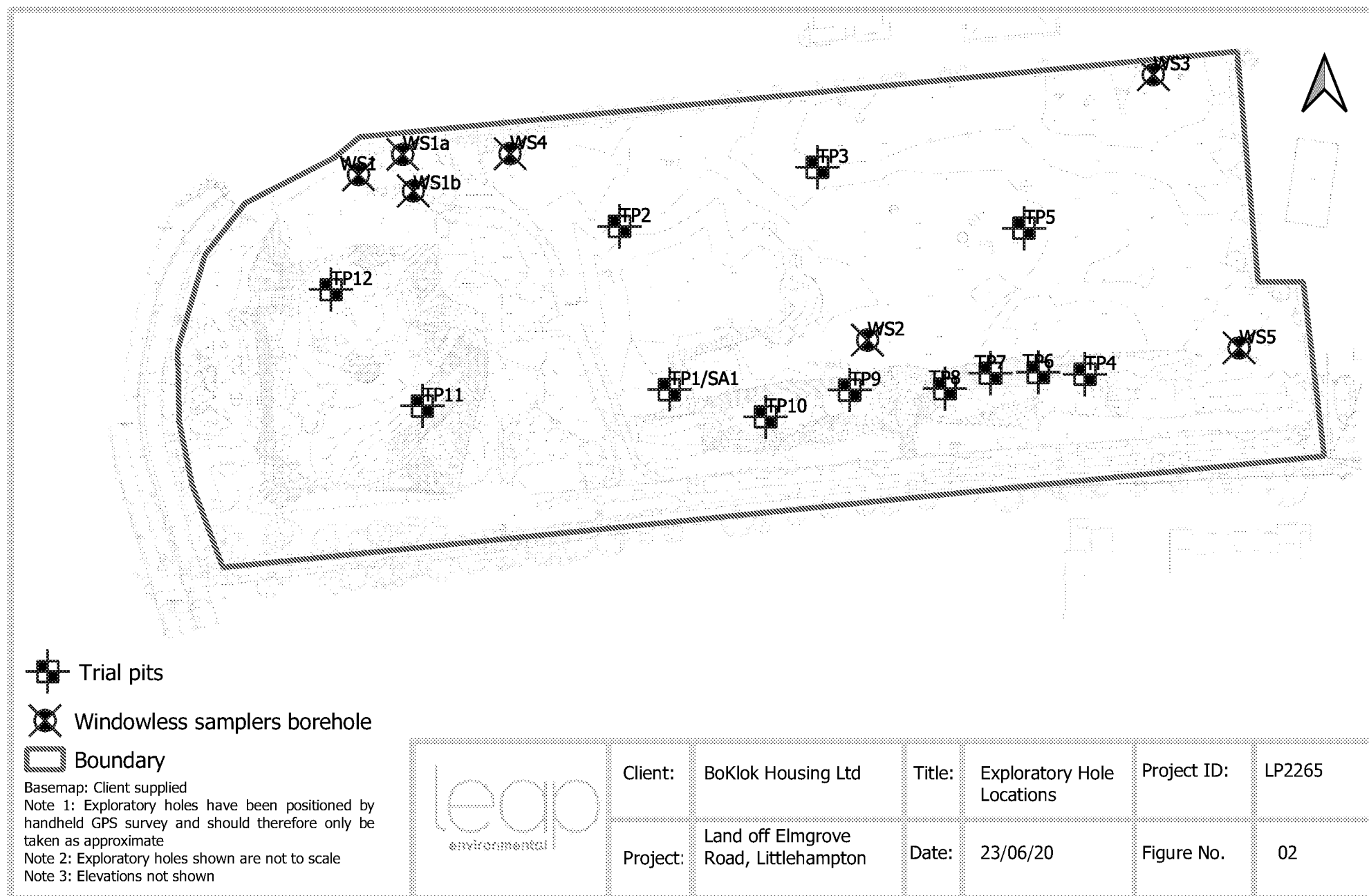
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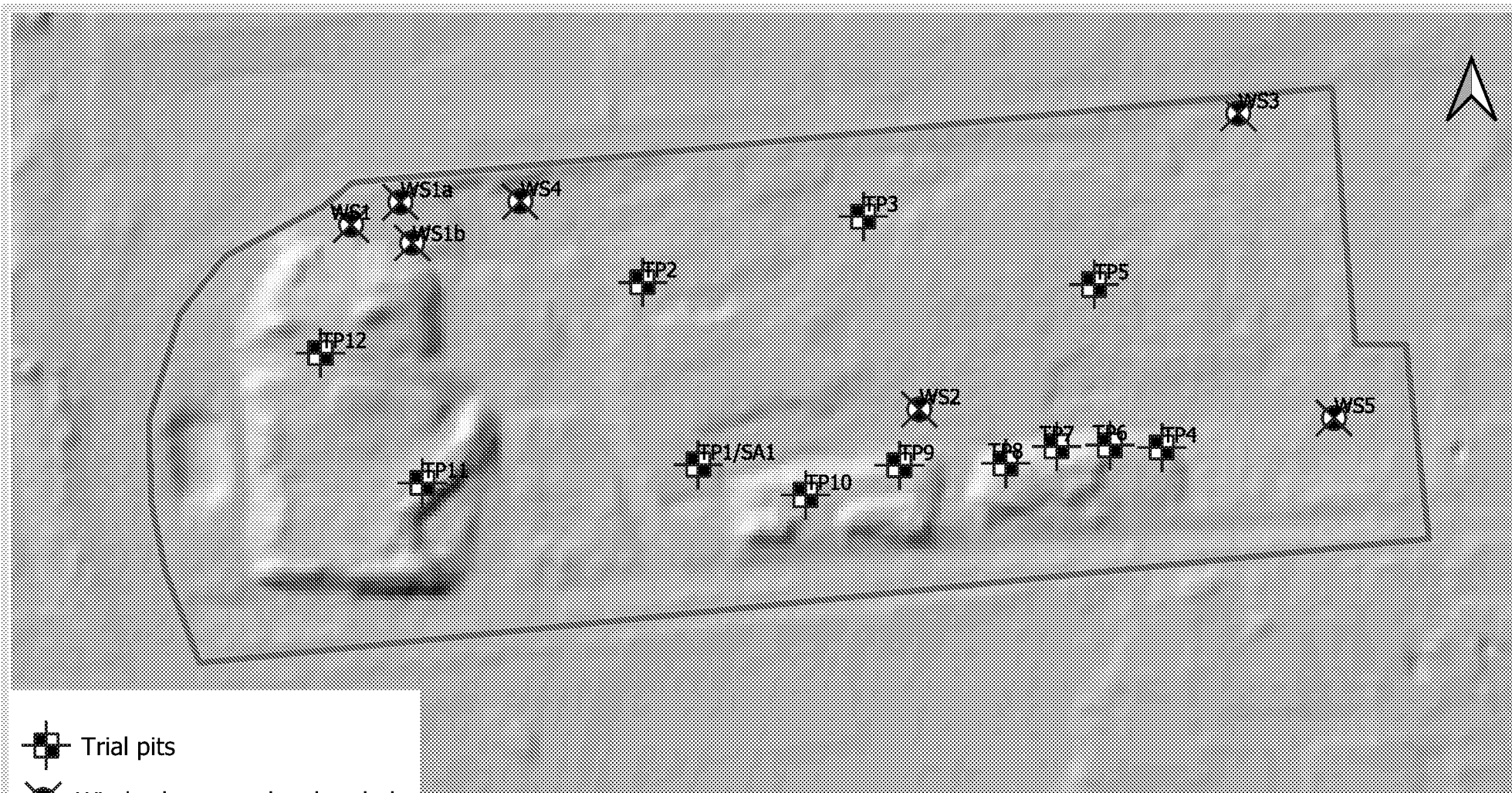
Project ID: LP2265

Project: Land off Elm Grove Road, Littlehampton

Date: 12/06/20

Figure No. 01





Trial pits



Windowless samplers borehole



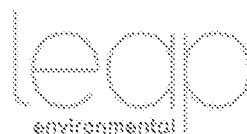
Boundary

Basemap: Client supplied

Note 1: Exploratory holes have been positioned by handheld GPS survey and should therefore only be taken as approximate

Note 2: Exploratory holes shown are not to scale

Note 3: Elevations not shown



Client: BoKlok Housing Ltd

Title: LIDAR Overlay

Project ID: LP2265

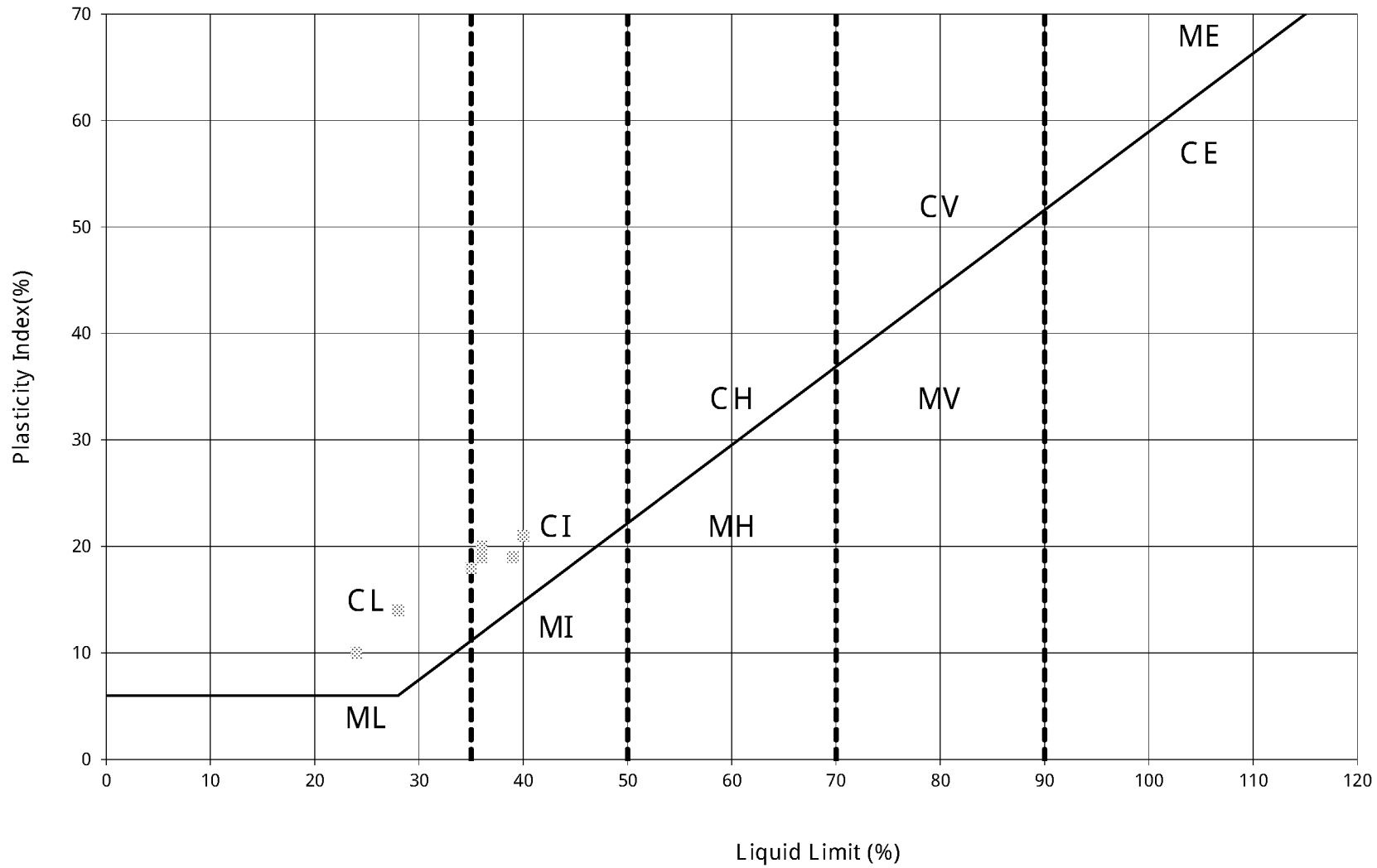
Project: Land off Elmgrove Road, Littlehampton

Date: 23/06/20

Figure No. 03



# Atterberg Limits A-Line Plot



## APPENDIX C - Site Photographs

Site Photographs



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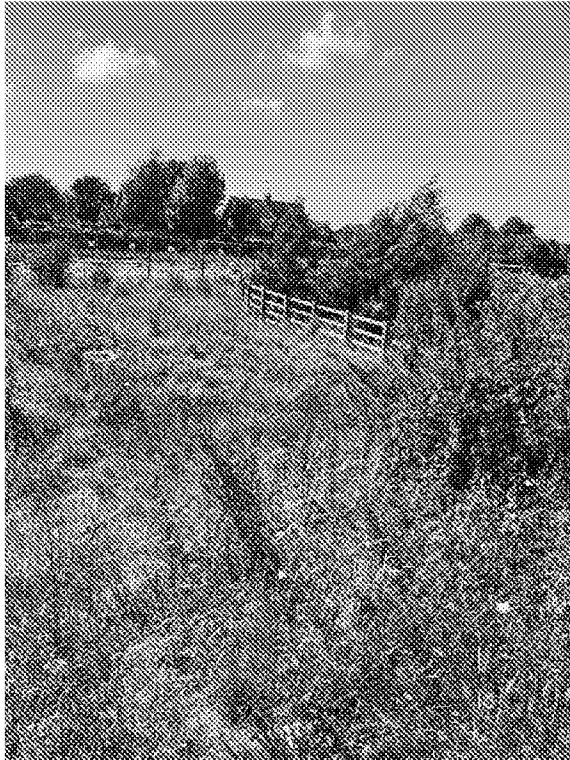
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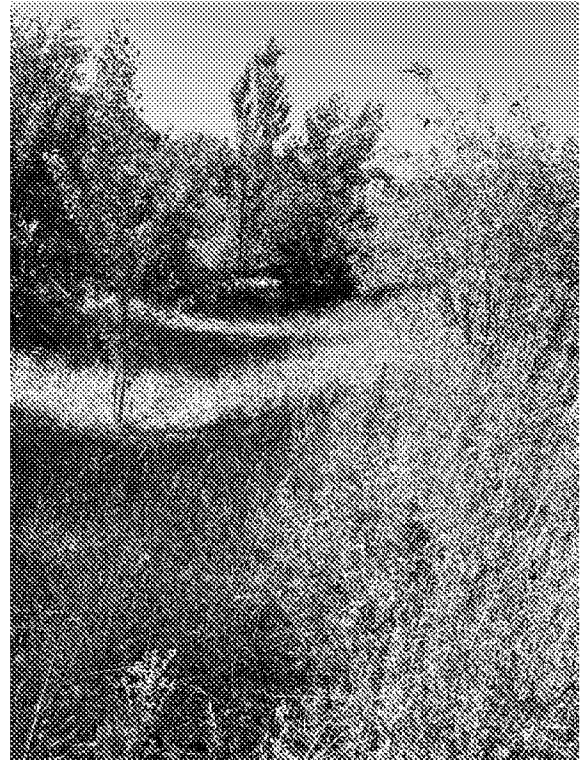
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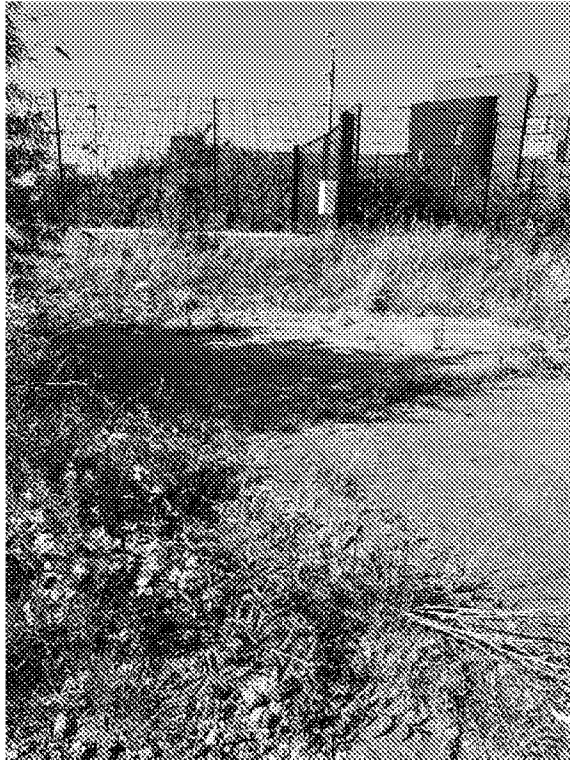


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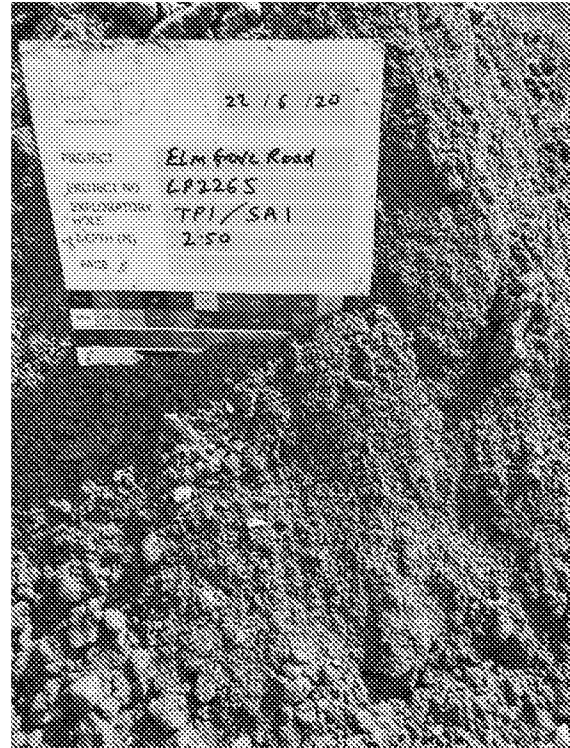
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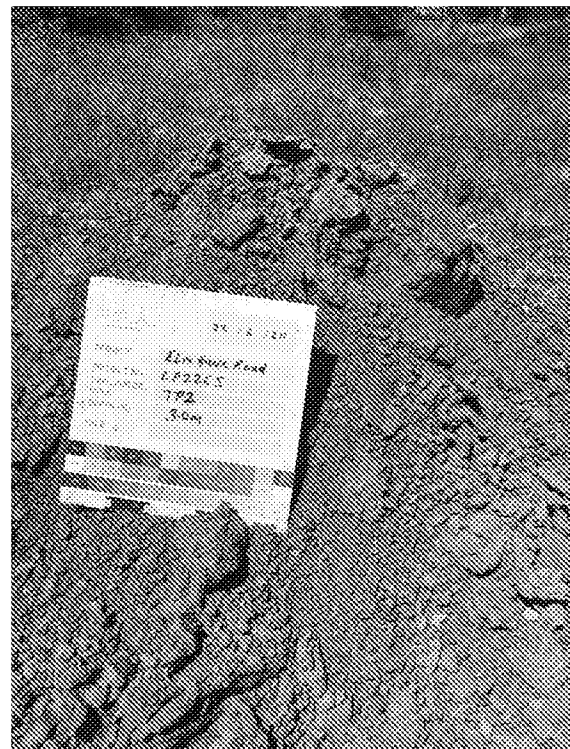
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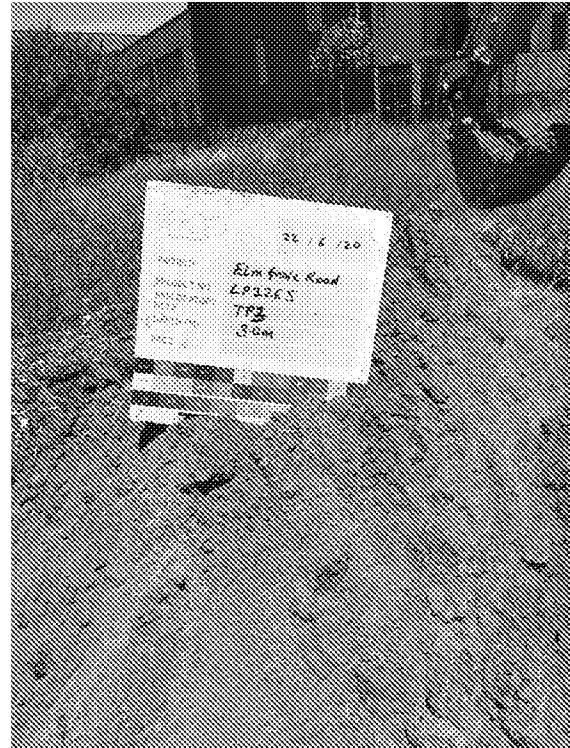
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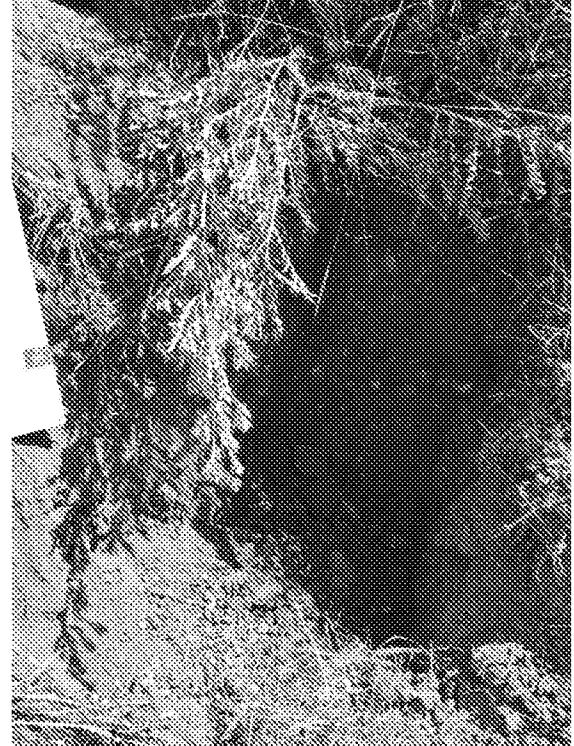


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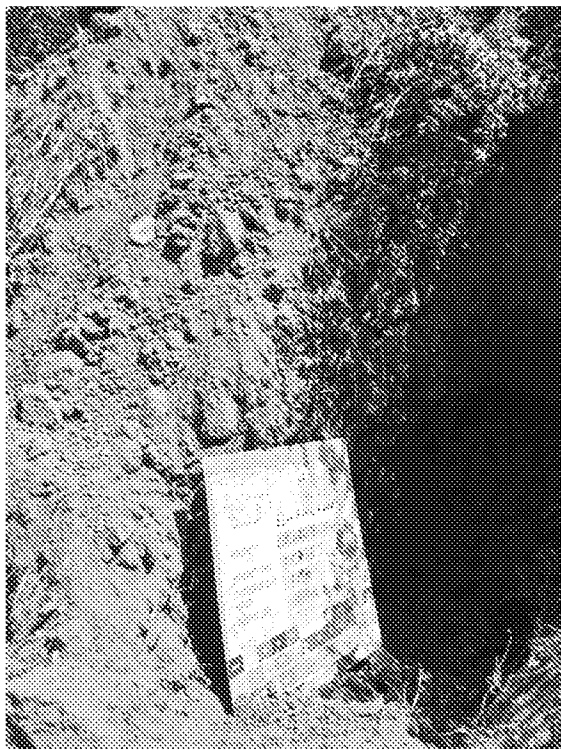




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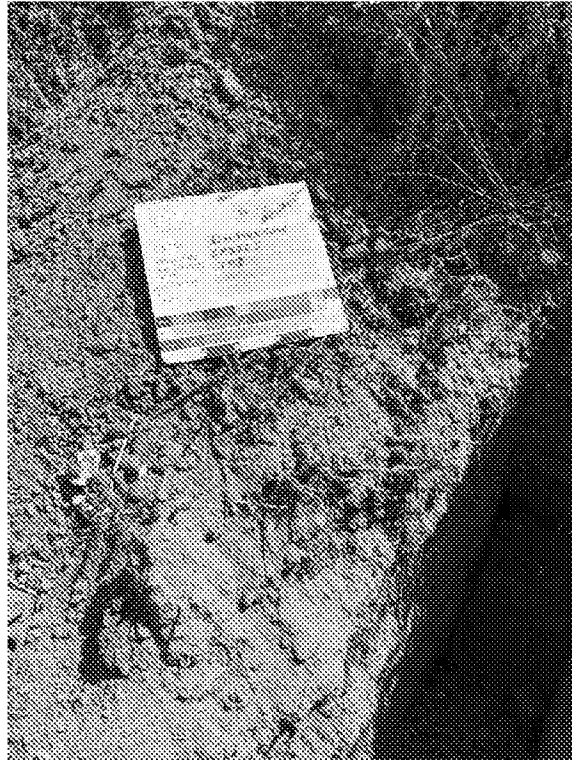


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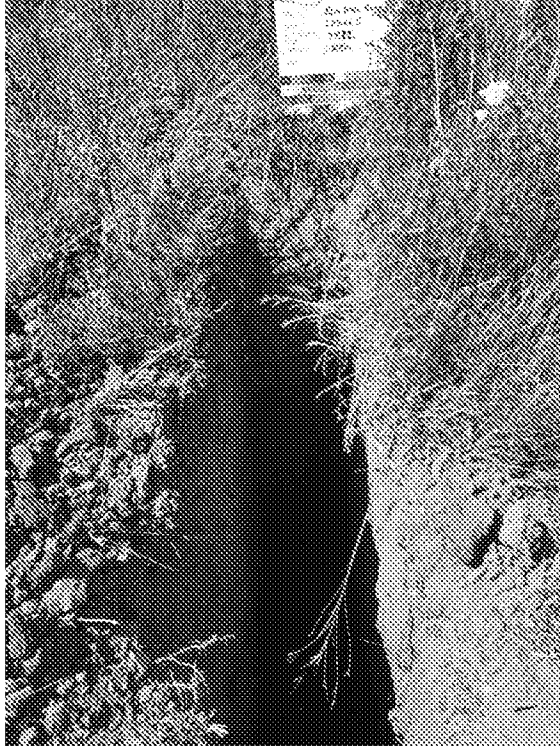
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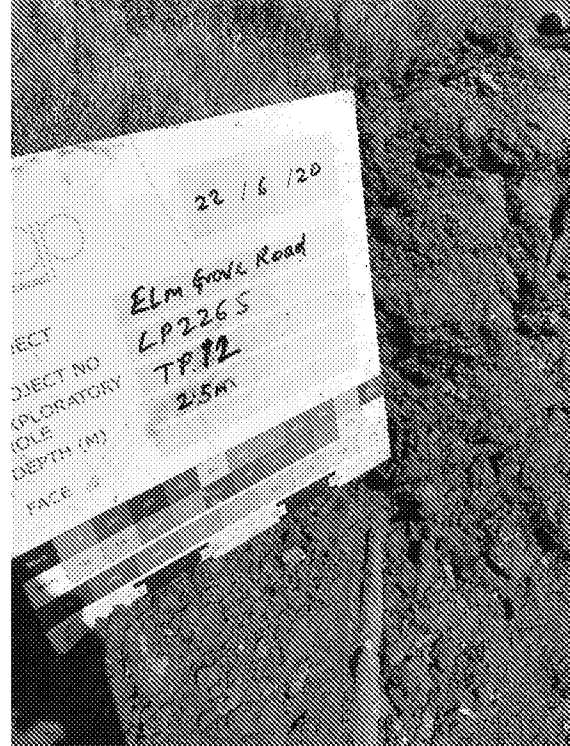
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## APPENDIX D Historic Maps and Environmental Database Searches

## Historic Maps and Environmental Database Searches

# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

|  |                                               |  |                             |  |               |
|--|-----------------------------------------------|--|-----------------------------|--|---------------|
|  | Gravel Pit                                    |  | Sand Pit                    |  | Other Pits    |
|  | Quarry                                        |  | Shingle                     |  | Orchard       |
|  | Osiers                                        |  | Reeds                       |  | Marsh         |
|  | Mixed Wood                                    |  | Deciduous                   |  | Brushwood     |
|  | Fir                                           |  | Furze                       |  | Rough Pasture |
|  | Arrow denotes flow of water                   |  | Trigonometrical Station     |  |               |
|  | Site of Antiquities                           |  | Bench Mark                  |  |               |
|  | Pump, Guide Post, Signal Post                 |  | Well, Spring, Boundary Post |  |               |
|  | 285 Surface Level                             |  |                             |  |               |
|  | Sketched Contour                              |  | Instrumental Contour        |  |               |
|  | Main Roads                                    |  | Minor Roads                 |  |               |
|  | Sunken Road                                   |  | Raised Road                 |  |               |
|  | Road over Railway                             |  | Railway over River          |  |               |
|  | Railway over Road                             |  | Level Crossing              |  |               |
|  | Road over River or Canal                      |  | Road over Stream            |  |               |
|  | County Boundary (Geographical)                |  |                             |  |               |
|  | County & Civil Parish Boundary                |  |                             |  |               |
|  | Administrative County & Civil Parish Boundary |  |                             |  |               |
|  | County Borough Boundary (England)             |  |                             |  |               |
|  | County Burgh Boundary (Scotland)              |  |                             |  |               |
|  | Rural District Boundary                       |  |                             |  |               |
|  | Civil Parish Boundary                         |  |                             |  |               |

## Ordnance Survey Plan 1:10,000

|  |                                                                       |  |                             |
|--|-----------------------------------------------------------------------|--|-----------------------------|
|  | Chalk Pit, Clay Pit or Quarry                                         |  | Gravel Pit                  |
|  | Sand Pit                                                              |  | Disused Pit or Quarry       |
|  | Refuse or Slag Heap                                                   |  | Lake, Loch or Pond          |
|  | Dunes                                                                 |  | Boulders                    |
|  | Coniferous Trees                                                      |  | Non-Coniferous Trees        |
|  | Orchard                                                               |  | Scrub                       |
|  | Bracken                                                               |  | Heath                       |
|  | Marsh                                                                 |  | Reeds                       |
|  | Building                                                              |  | Glasshouse                  |
|  | Sloping Masonry                                                       |  | Pylon                       |
|  | Cutting                                                               |  | Embankment                  |
|  | Road Under                                                            |  | Road Over                   |
|  | Level Crossing                                                        |  | Foot Bridge                 |
|  | Standard Gauge Multiple Track                                         |  | Standard Gauge Single Track |
|  | Siding, Tramway or Mineral Line                                       |  | Narrow Gauge                |
|  | Geographical County                                                   |  |                             |
|  | Administrative County, County Borough or County of City               |  |                             |
|  | Municipal Borough, Urban or Rural District, Burgh or District Council |  |                             |
|  | Borough, Burgh or County Constituency                                 |  |                             |
|  | Civil Parish                                                          |  |                             |
|  | Boundary Post or Stone                                                |  | Police Station              |
|  | Church                                                                |  | Post Office                 |
|  | Club House                                                            |  | Public Convenience          |
|  | Fire Engine Station                                                   |  | Public House                |
|  | Foot Bridge                                                           |  | Signal Box                  |
|  | Fountain                                                              |  | Spring                      |
|  | Guide Post                                                            |  | Telephone Call Box          |
|  | Mile Post                                                             |  | Telephone Call Post         |
|  | Mile Stone                                                            |  | Well                        |

## 1:10,000 Raster Mapping

|  |                                                          |  |                                            |
|--|----------------------------------------------------------|--|--------------------------------------------|
|  | Gravel Pit                                               |  | Refuse tip or slag heap                    |
|  | Rock                                                     |  | Rock (scattered)                           |
|  | Boulders                                                 |  | Boulders (scattered)                       |
|  | Shingle                                                  |  | Mud                                        |
|  | Sand                                                     |  | Sand Pit                                   |
|  | Slopes                                                   |  | Top of cliff                               |
|  | General detail                                           |  | Underground detail                         |
|  | Overhead detail                                          |  | Narrow gauge railway                       |
|  | Multi-track railway                                      |  | Single track railway                       |
|  | County boundary (England only)                           |  | Civil, parish or community boundary        |
|  | District, Unitary, Metropolitan, London Borough boundary |  | Constituency boundary                      |
|  | Area of wooded vegetation                                |  | Non-coniferous trees                       |
|  | Non-coniferous trees (scattered)                         |  | Coniferous trees                           |
|  | Coniferous trees (scattered)                             |  | Positioned tree                            |
|  | Orchard                                                  |  | Coppice or Osiers                          |
|  | Rough Grassland                                          |  | Heath                                      |
|  | Scrub                                                    |  | Marsh, Salt Marsh or Reeds                 |
|  | Water feature                                            |  | Flow arrows                                |
|  | Mean high water (springs)                                |  | Mean low water (springs)                   |
|  | Telephone line (where shown)                             |  | Electricity transmission line (with poles) |
|  | Bench mark (where shown)                                 |  | Triangulation station                      |
|  | Point feature (e.g. Guide Post or Mile Stone)            |  | Pylon, flare stack or lighting tower       |
|  | Site of (antiquity)                                      |  | Glasshouse                                 |
|  | General Building                                         |  | Important Building                         |

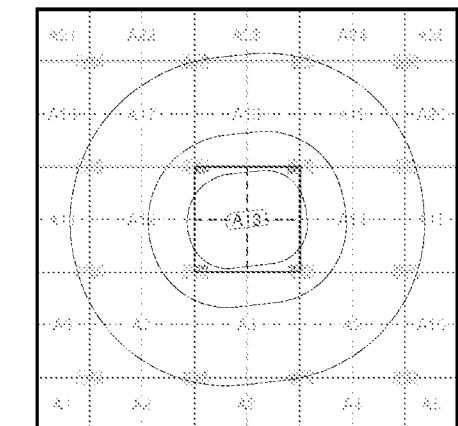
# Envirocheck

LANDMARK INFORMATION GROUP

## Historical Mapping & Photography included:

| Mapping Type         | Scale    | Date | Pg |
|----------------------|----------|------|----|
| Sussex               | 1:10,560 | 1879 | 2  |
| Sussex               | 1:10,560 | 1899 | 3  |
| Sussex               | 1:10,560 | 1913 | 4  |
| Sussex               | 1:10,560 | 1913 | 5  |
| Sussex               | 1:10,560 | 1932 | 6  |
| Sussex               | 1:10,560 | 1938 | 7  |
| Ordnance Survey Plan | 1:10,000 | 1962 | 8  |
| Ordnance Survey Plan | 1:10,000 | 1962 | 9  |
| Ordnance Survey Plan | 1:10,000 | 1977 | 10 |
| Ordnance Survey Plan | 1:10,000 | 1982 | 11 |
| Ordnance Survey Plan | 1:10,000 | 1993 | 12 |
| 10K Raster Mapping   | 1:10,000 | 2000 | 13 |
| Street View          | Variable |      | 14 |

## Historical Map - Slice A



## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE

**Landmark**  
 INFORMATION GROUP

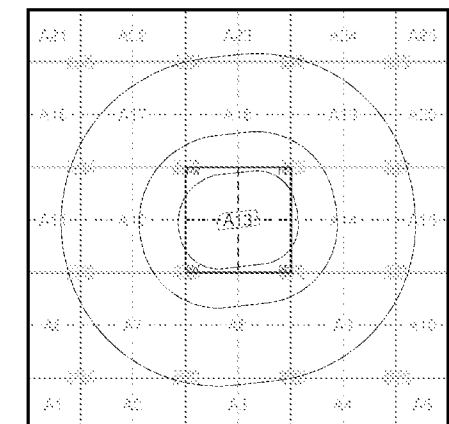
Tel: 0844 844 9852  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

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)

|          |
|----------|
| 06300    |
| 1879     |
| 1:10,560 |
| 07500    |
| 1879     |
| 1:10,560 |

## Historical Map - Slice A

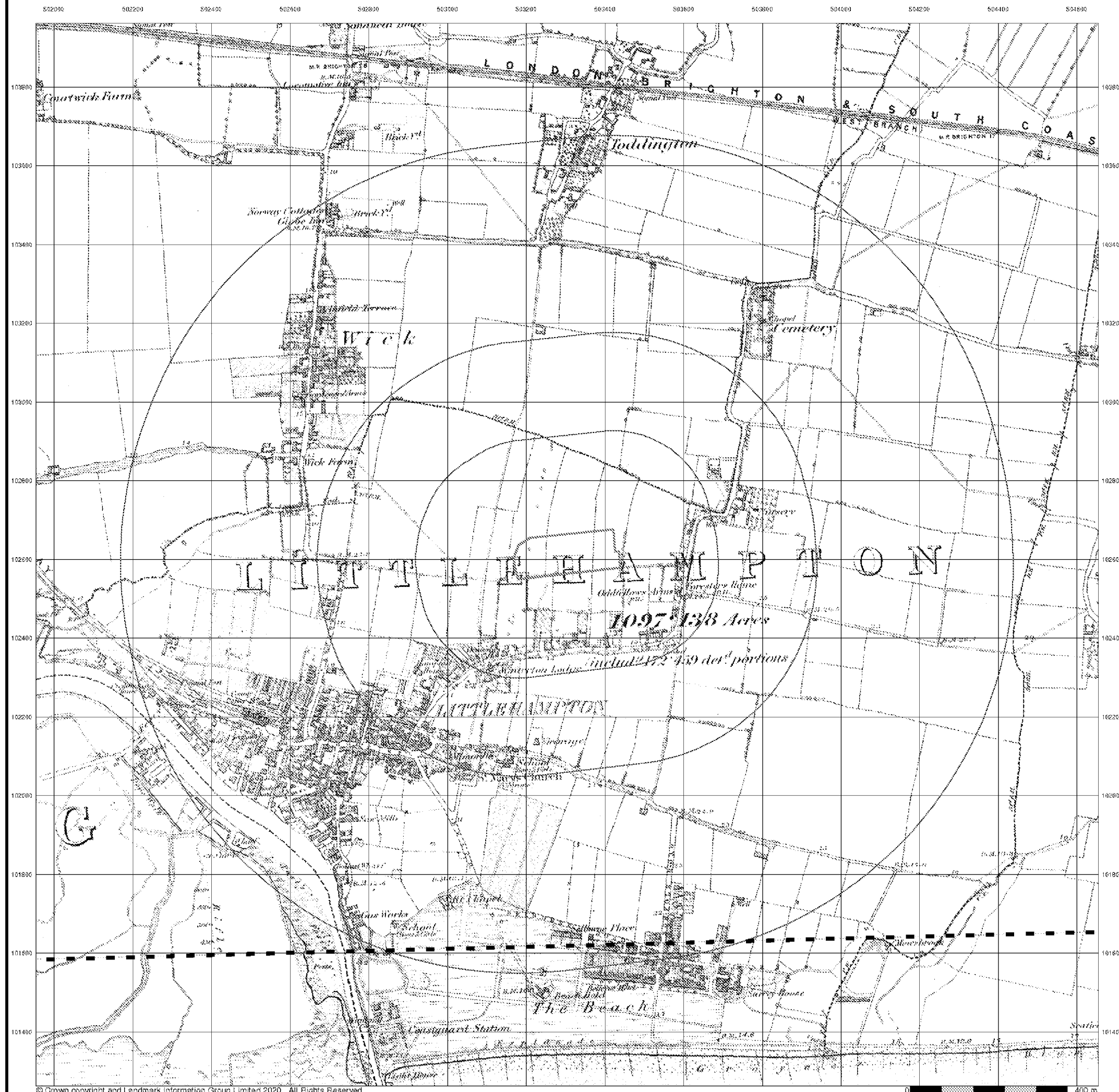


## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



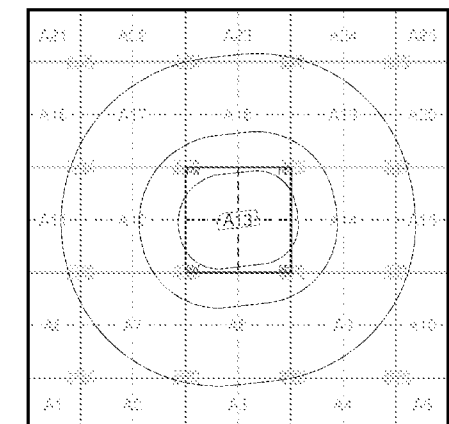


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

|       |      |          |
|-------|------|----------|
| 063SW | 1899 | 1:10,560 |
| 075NW | 1899 | 1:10,560 |

## Historical Map - Slice A



## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



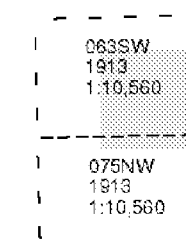
Sussex

Published 1913

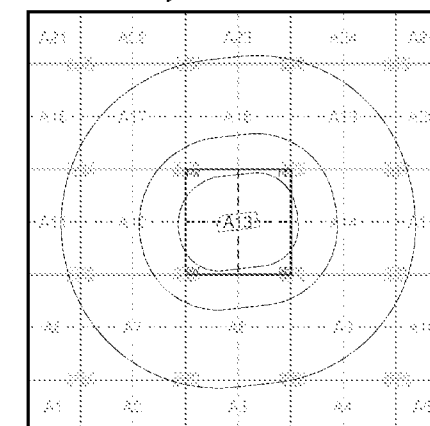
Source map scale - 1:10,560

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)



Historical Map - Slice A



Order Details

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 1000

Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE



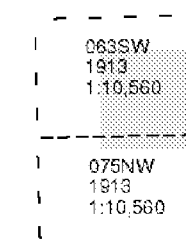
Sussex

Published 1913

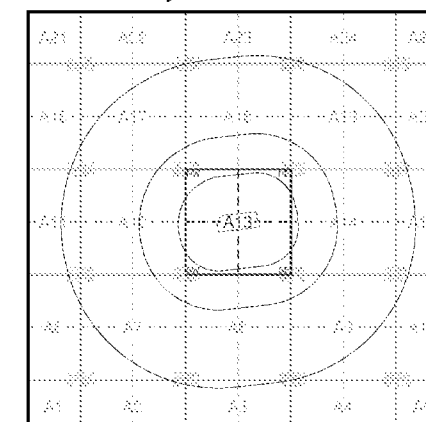
Source map scale - 1:10,560

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)



Historical Map - Slice A



Order Details

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 1000

Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE







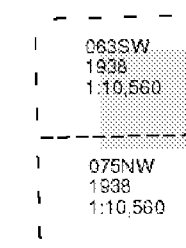
Sussex

Published 1938

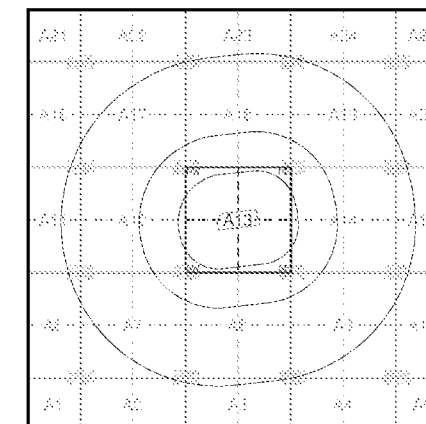
Source map scale - 1:10,560

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)



Historical Map - Slice A



Order Details

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 1000

Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE











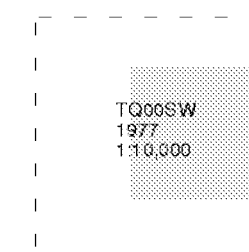
## Ordnance Survey Plan

Published 1977

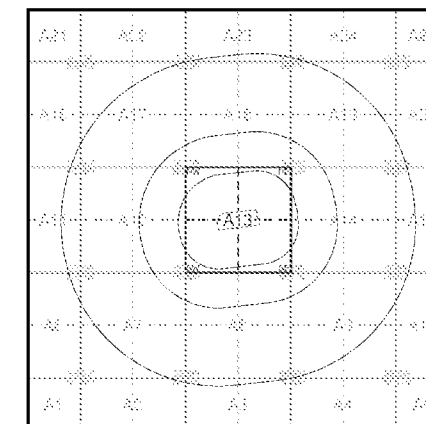
Source map scale - 1:10,000

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)



### Historical Map - Slice A



### Order Details

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 1000

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE



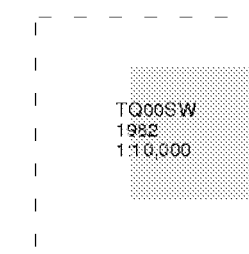
## Ordnance Survey Plan

Published 1982

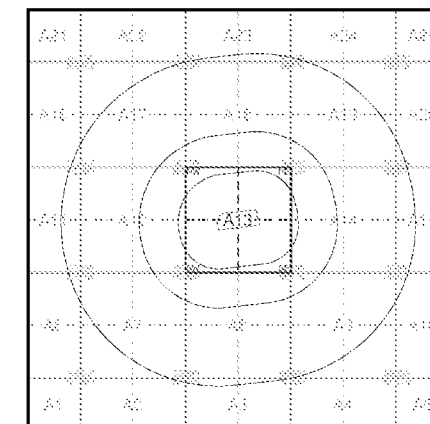
Source map scale - 1:10,000

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)



### Historical Map - Slice A



### Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE





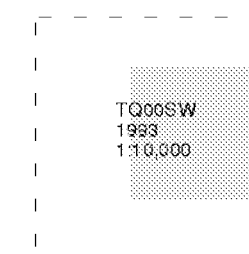
## Ordnance Survey Plan

Published 1993

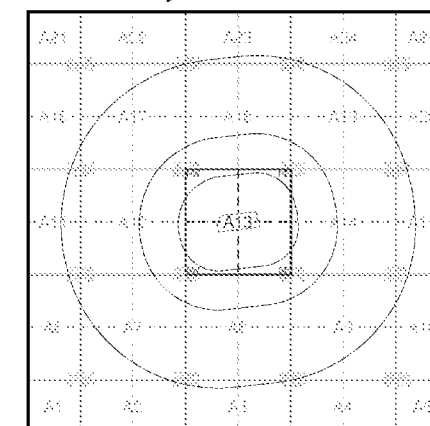
Source map scale - 1:10,000

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)



### Historical Map - Slice A



### Order Details

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 1000

### Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE









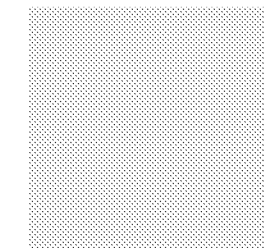
## Street View

**Published 2020**

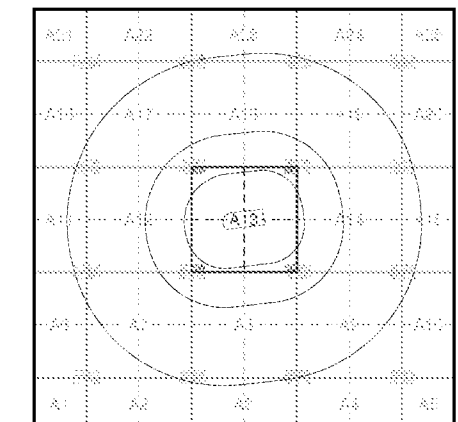
**Source map scale - 1:10,000**

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

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



## Street View Map - Slice A

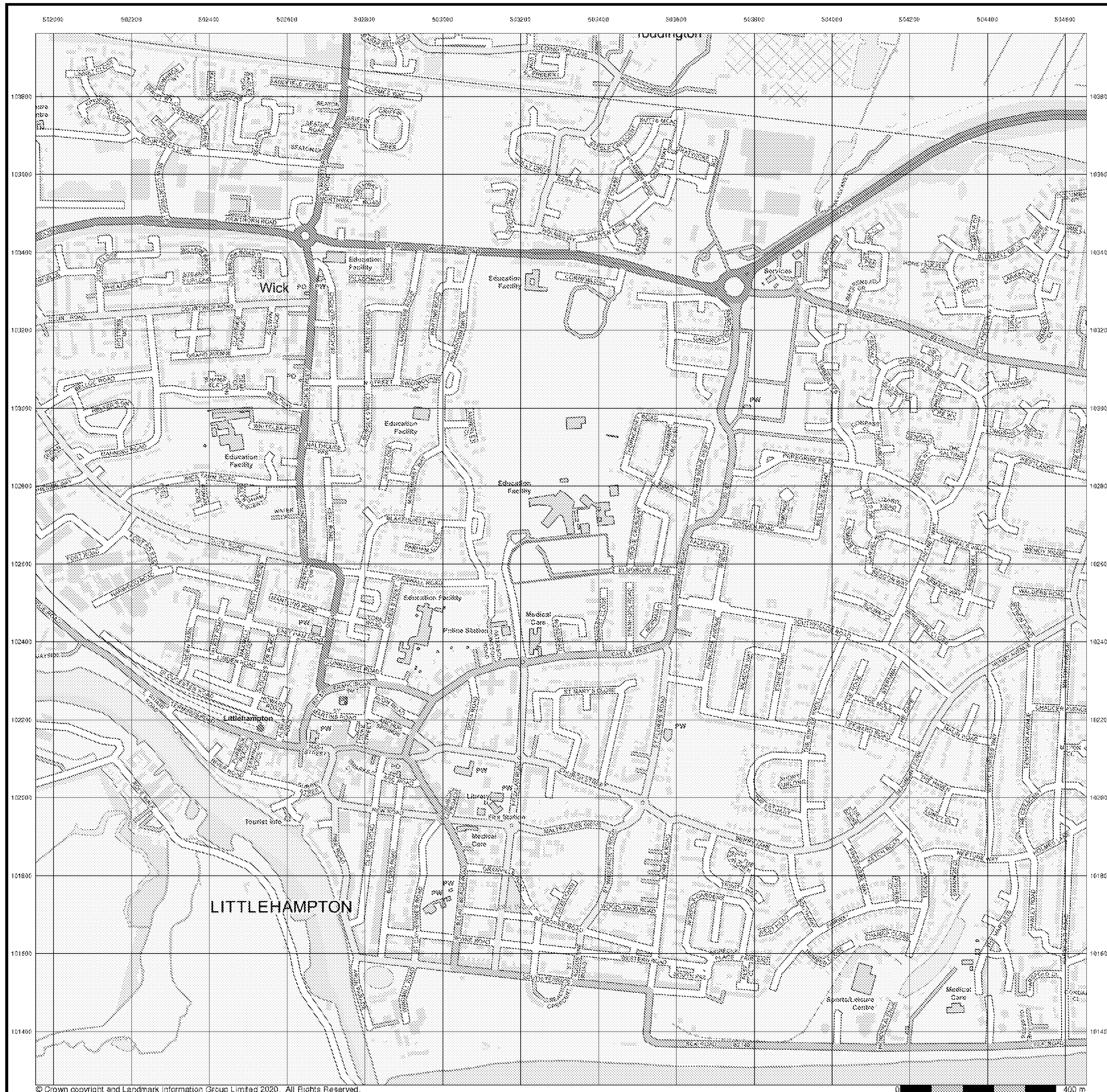


## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

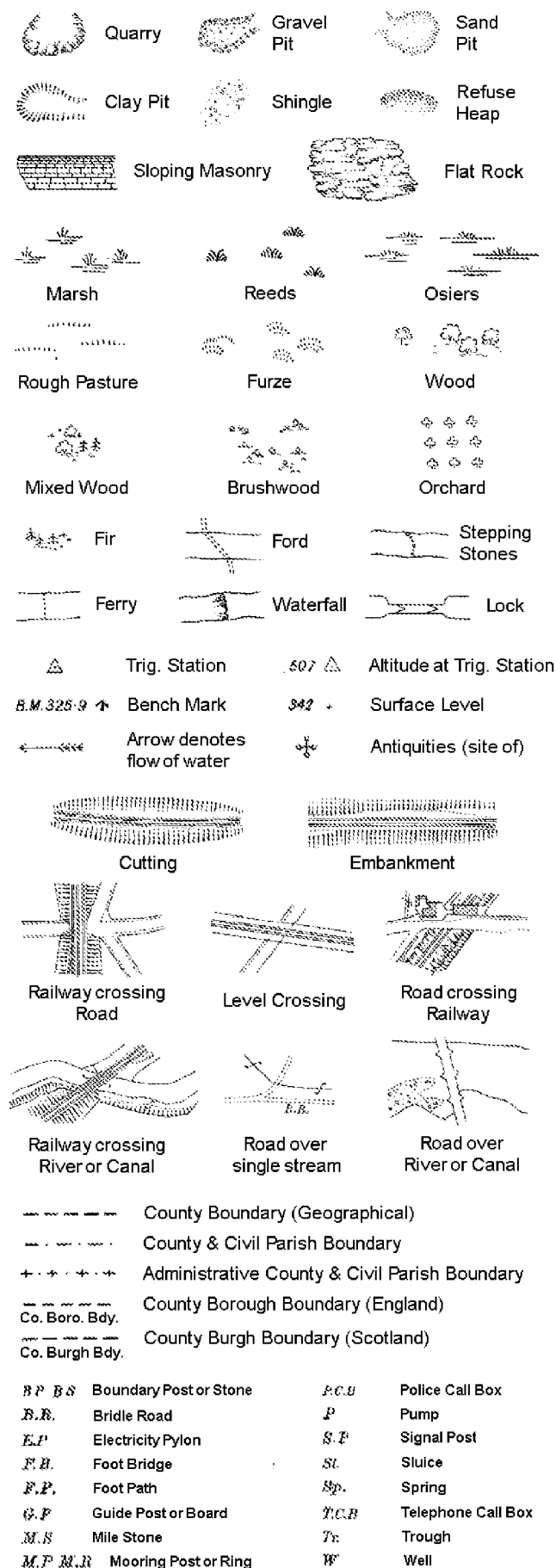
## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE

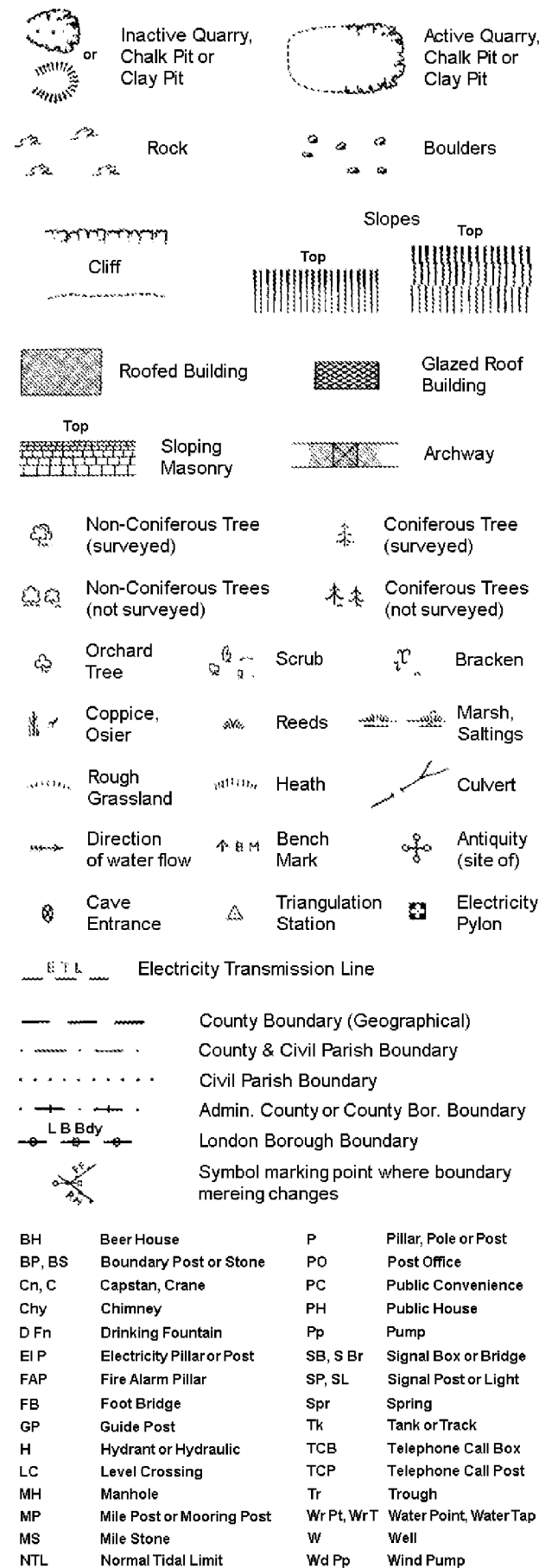


# Historical Mapping Legends

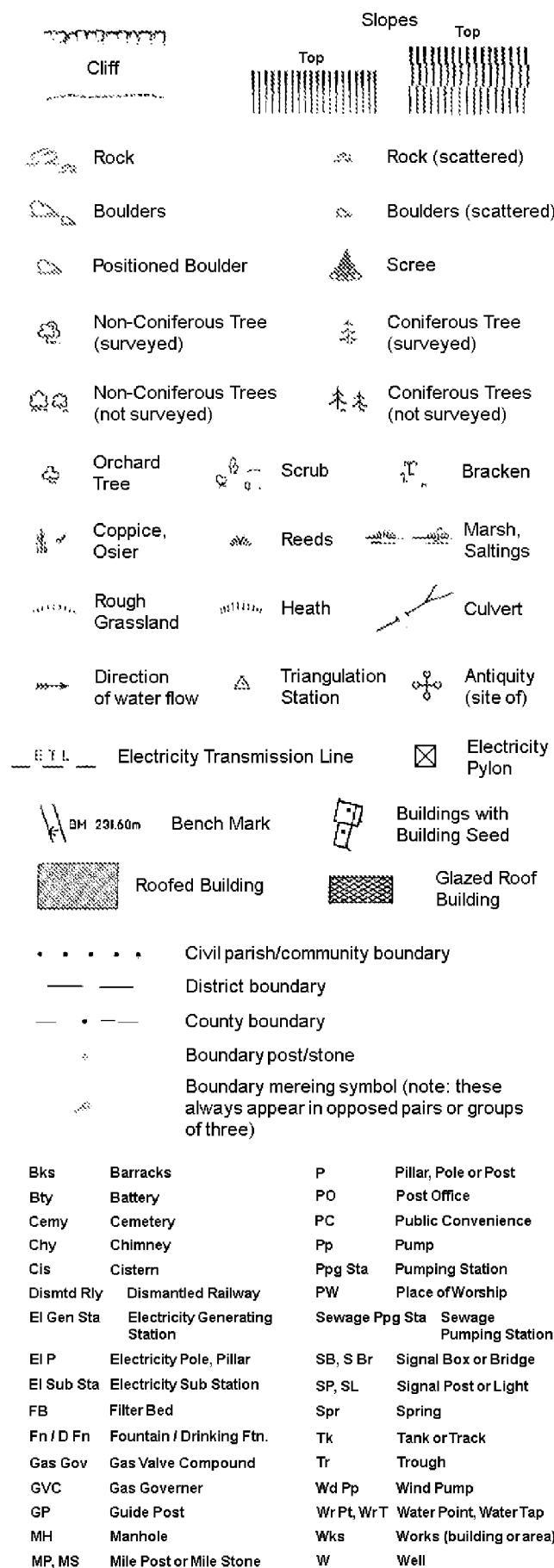
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



## Large-Scale National Grid Data 1:2,500 and 1:1,250



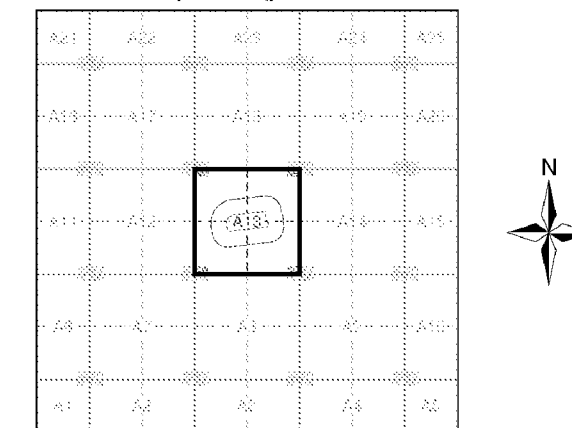
# Envirocheck

LANDMARK INFORMATION GROUP

## Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Sussex                         | 1:2,500 | 1876        | 2  |
| Sussex                         | 1:2,500 | 1898        | 3  |
| Sussex                         | 1:2,500 | 1912        | 4  |
| Sussex                         | 1:2,500 | 1932        | 5  |
| Ordnance Survey Plan           | 1:1,250 | 1958        | 6  |
| Ordnance Survey Plan           | 1:2,500 | 1959        | 7  |
| Ordnance Survey Plan           | 1:1,250 | 1965 - 1973 | 8  |
| Additional SIMs                | 1:1,250 | 1966 - 1978 | 9  |
| Ordnance Survey Plan           | 1:2,500 | 1970        | 10 |
| Ordnance Survey Plan           | 1:1,250 | 1973 - 1980 | 11 |
| Ordnance Survey Plan           | 1:1,250 | 1980 - 1987 | 12 |
| Additional SIMs                | 1:1,250 | 1984 - 1989 | 13 |
| Additional SIMs                | 1:1,250 | 1987        | 14 |
| Large-Scale National Grid Data | 1:1,250 | 1994        | 15 |
| Large-Scale National Grid Data | 1:1,250 | 1995        | 16 |

## Historical Map - Segment A13



## Order Details

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 100

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE

Landmark  
LANDMARK INFORMATION GROUP

Tel: 0844 844 9852  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

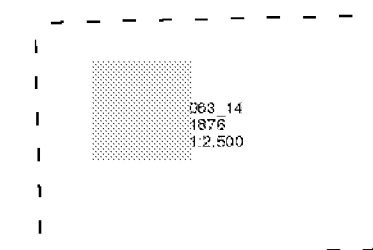
Sussex

Published 1876

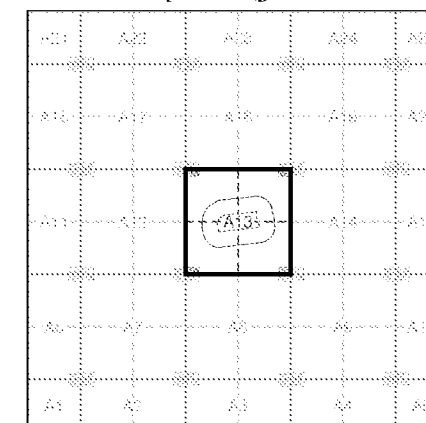
Source map scale - 1:2,500

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

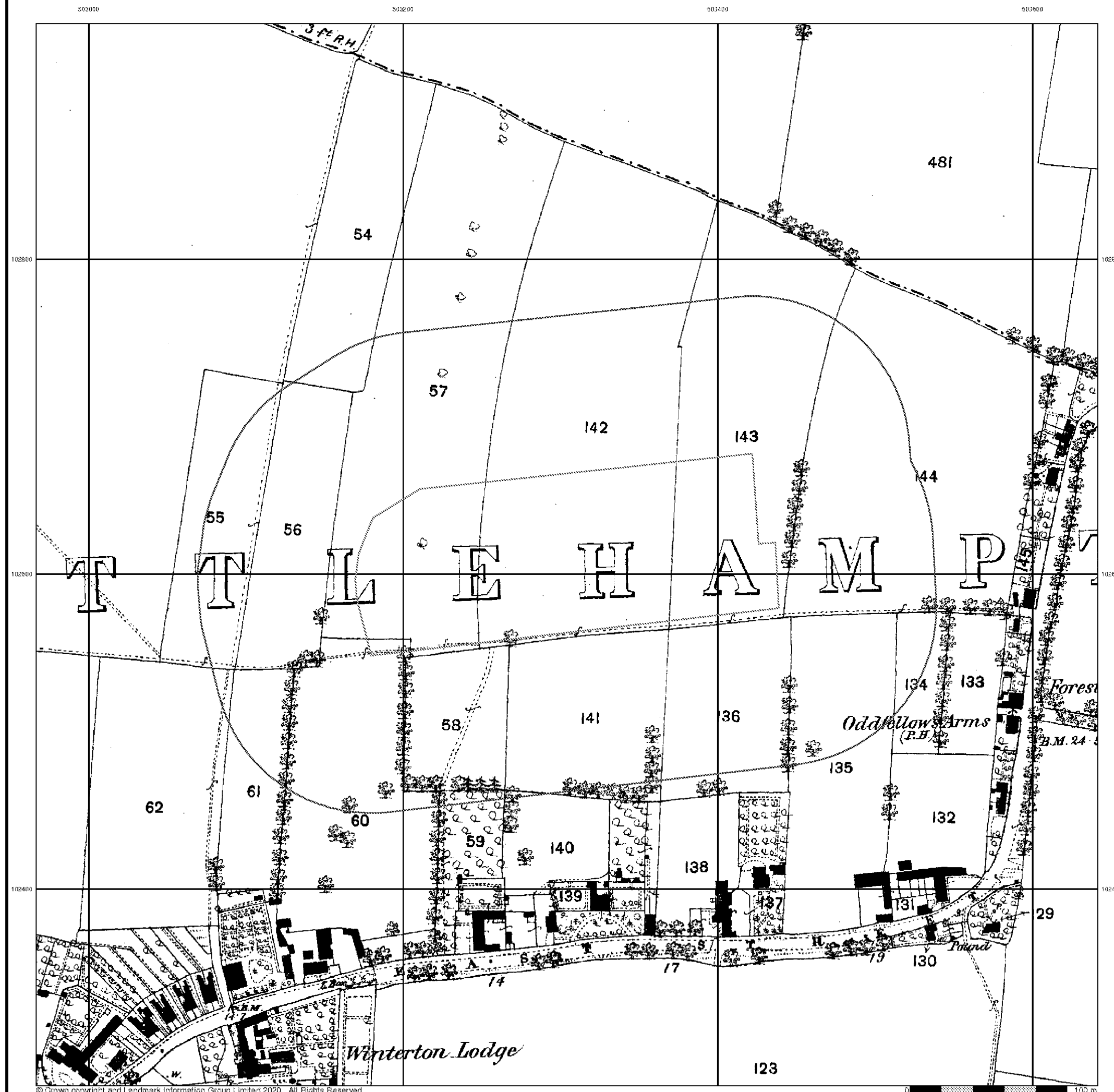


## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

## Site Details

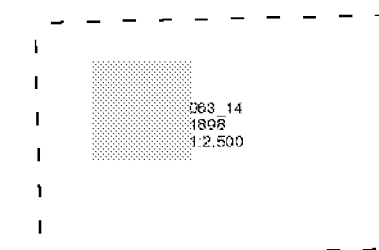
Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE



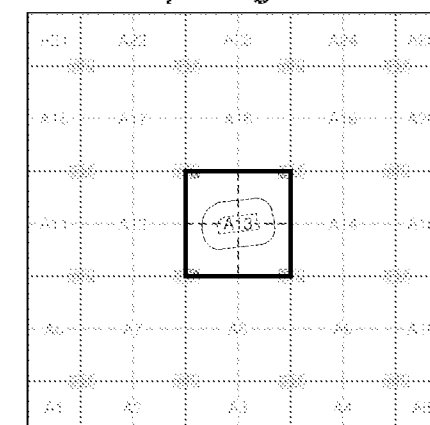


**Source map scale - 1:2,500**

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 100

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

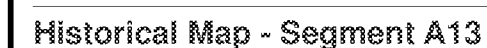






**Source map scale - 1:2,500**

Map Name(s) and Date(s)



Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 100

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

## Ordnance Survey Plan

Published 1958

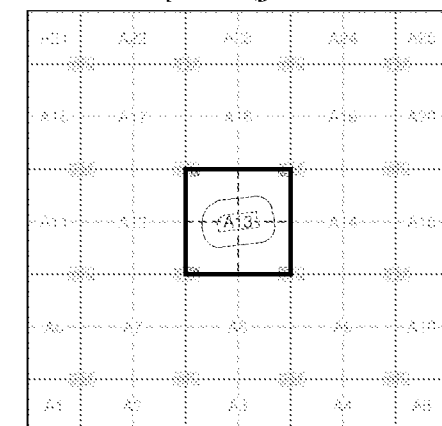
Source map scale - 1:1,250

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)

|                             |                             |
|-----------------------------|-----------------------------|
| TQ0202NE<br>1958<br>1:1,250 | TQ0302NE<br>1958<br>1:1,250 |
| TQ0202SE<br>1958<br>1:1,250 | TQ0302SW<br>1958<br>1:1,250 |
| TQ0302SE<br>1958<br>1:1,250 |                             |

### Historical Map - Segment A13

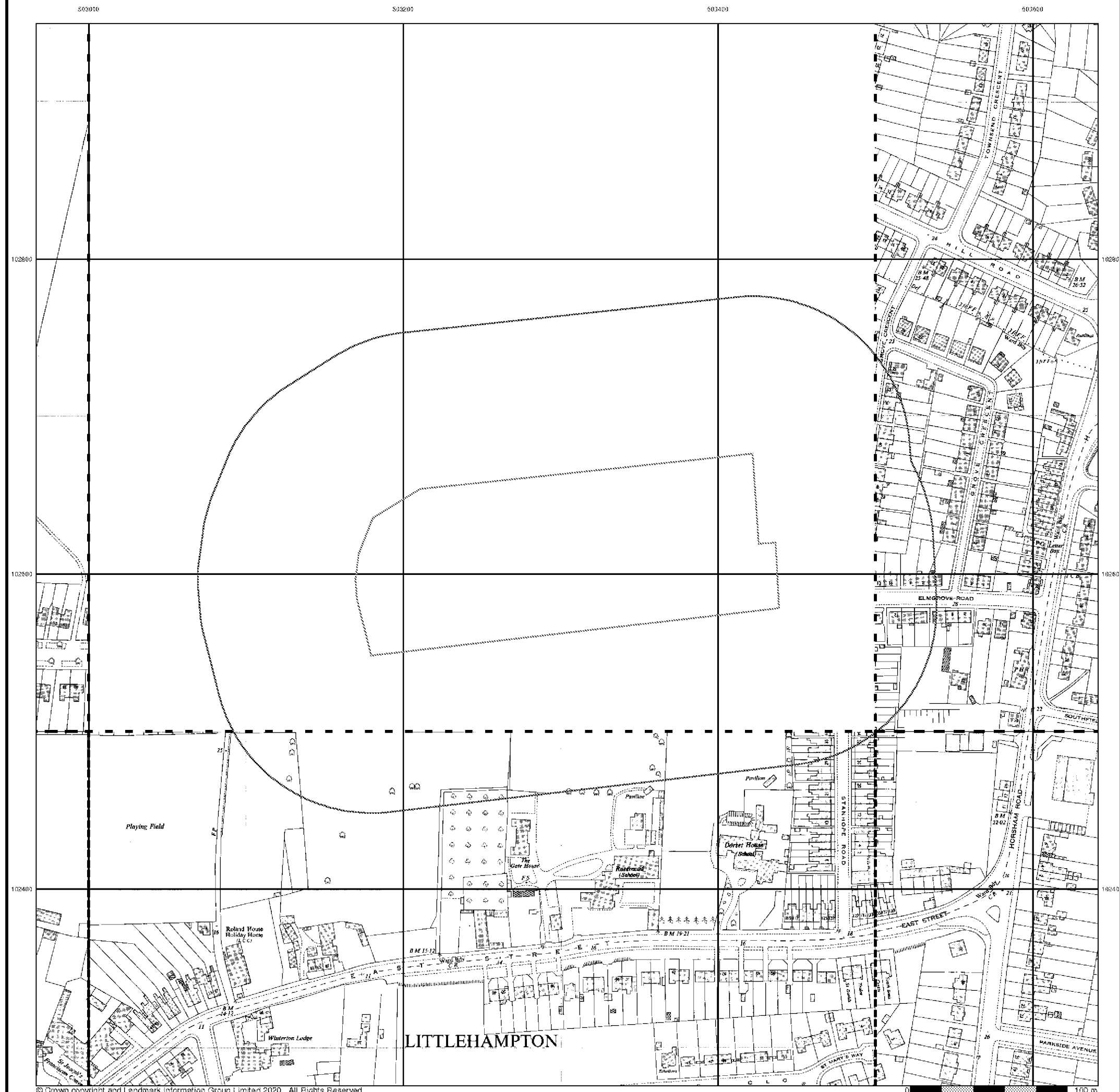


### Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE



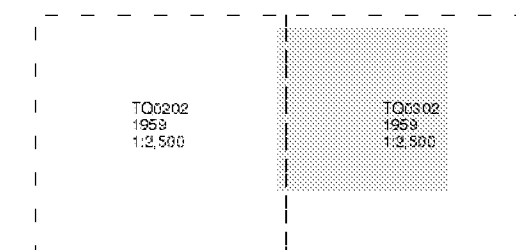
## Ordnance Survey Plan

Published 1959

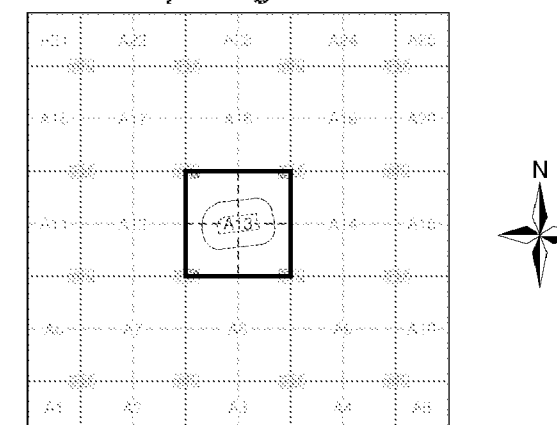
Source map scale - 1:2,500

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

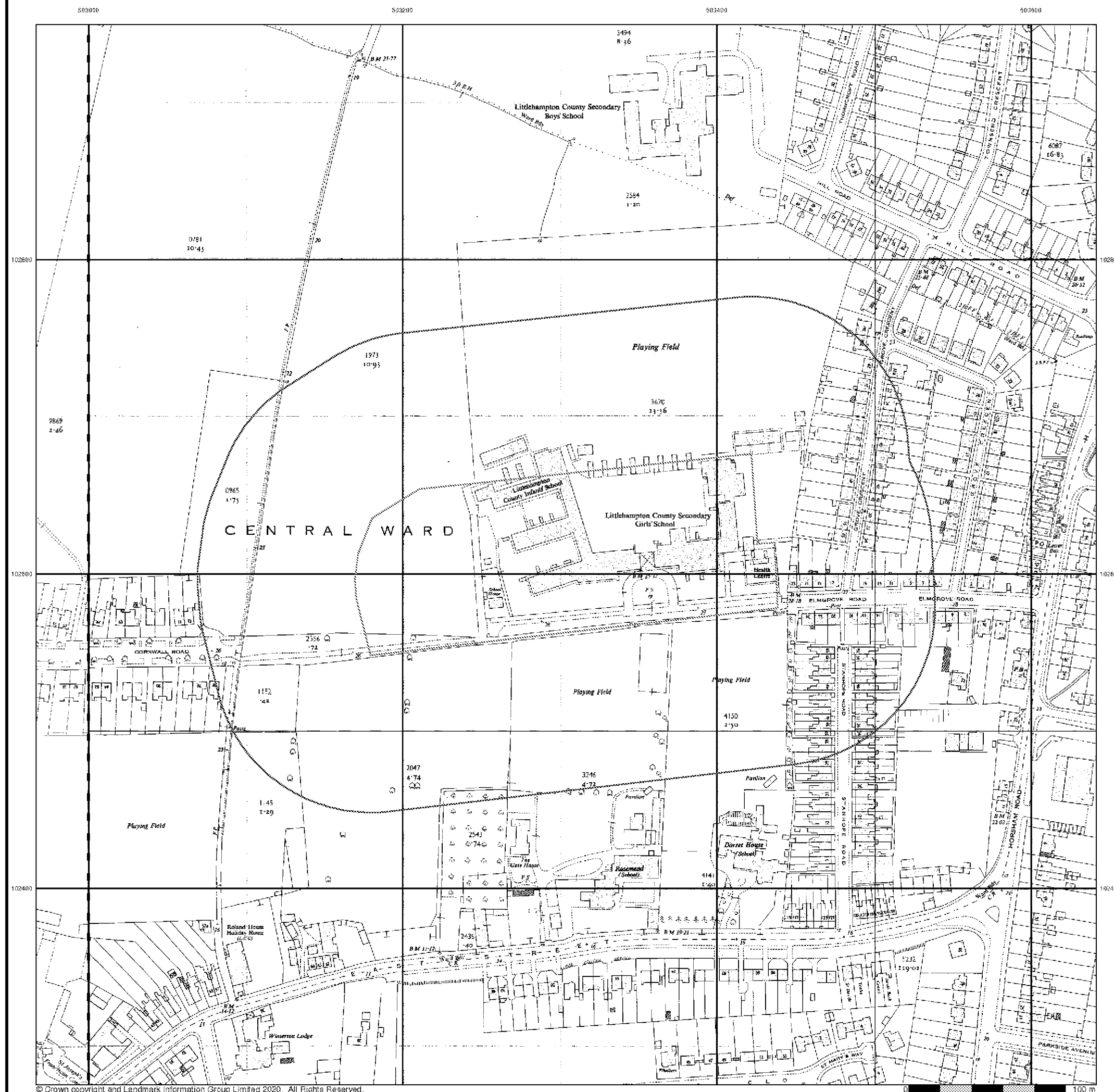


## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

## Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE





## Ordnance Survey Plan

Published 1965 - 1973

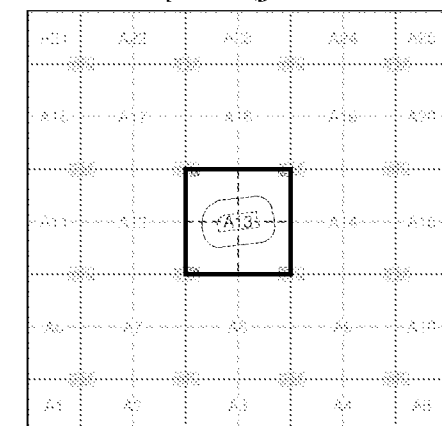
Source map scale - 1:1,250

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)

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| TQ0202NE<br>1965<br>1:1,250 | TQ0302NW<br>1968<br>1:1,250 | TQ0302NE<br>1973<br>1:1,250 |
| TQ0202SE<br>1968<br>1:1,250 | TQ0302SW<br>1968<br>1:1,250 | TQ0302SE<br>1965<br>1:1,250 |

### Historical Map - Segment A13

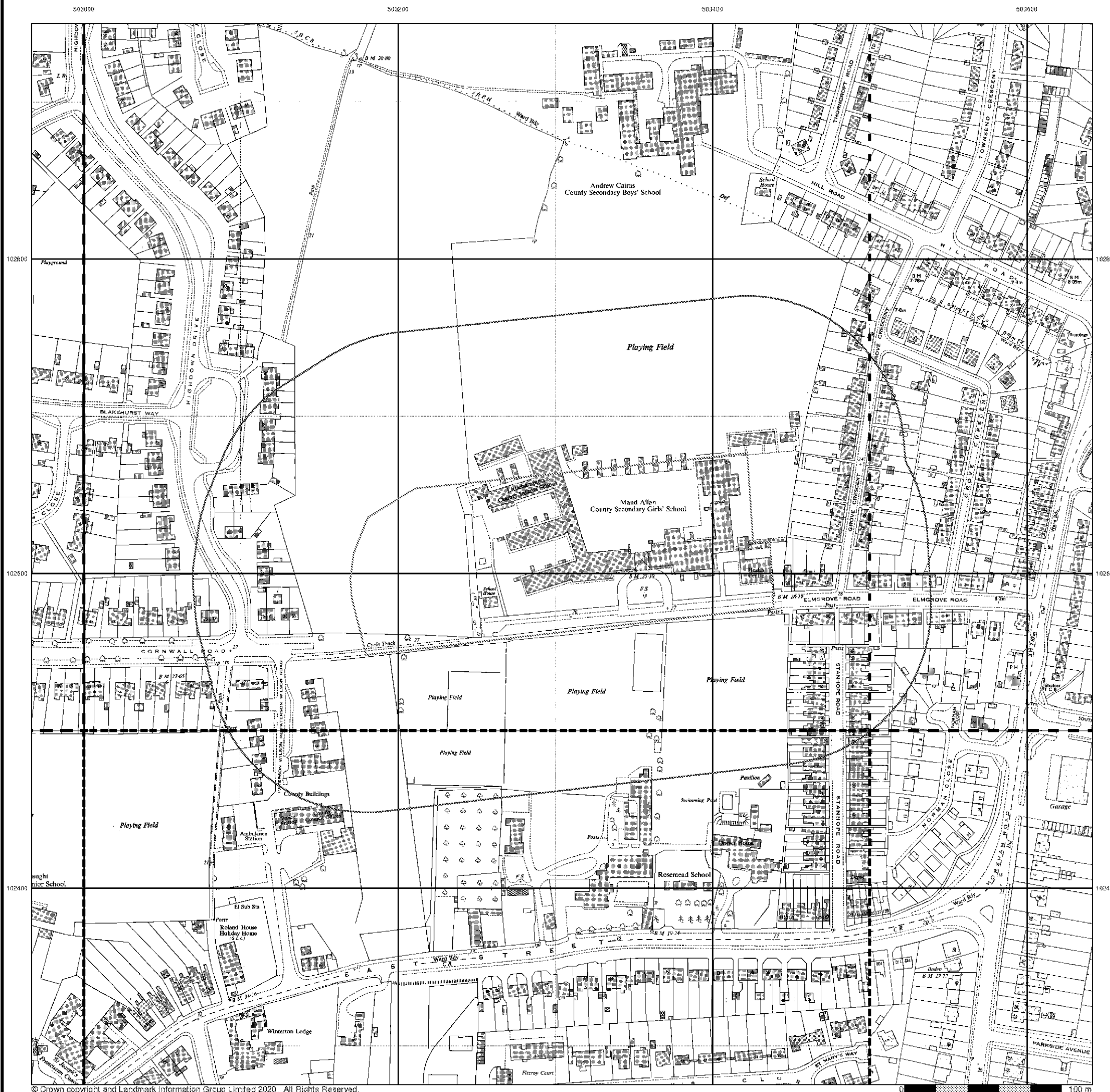


### Order Details

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 100

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE



## Additional SIMs

Published 1966 - 1978

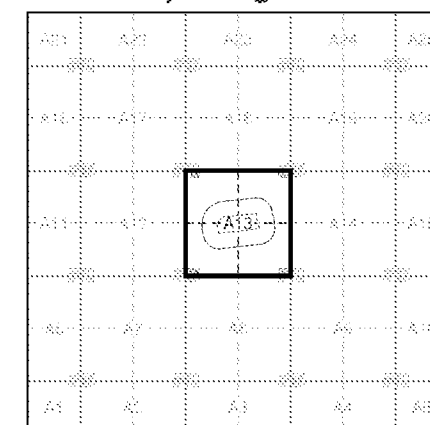
Source map scale - 1:1,250

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)

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| TQ0202NE<br>1966<br>1:1,250 | TQ0302NW<br>1978<br>1:1,250 |                             |
| TQ0202SE<br>1977<br>1:1,250 | TQ0302SW<br>1978<br>1:1,250 | TQ0302SE<br>1978<br>1:1,250 |

## Historical Map - Segment A13



## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

## Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE



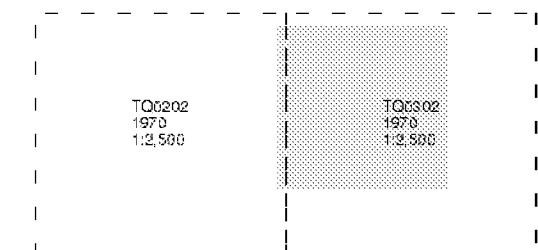
## Ordnance Survey Plan

Published 1970

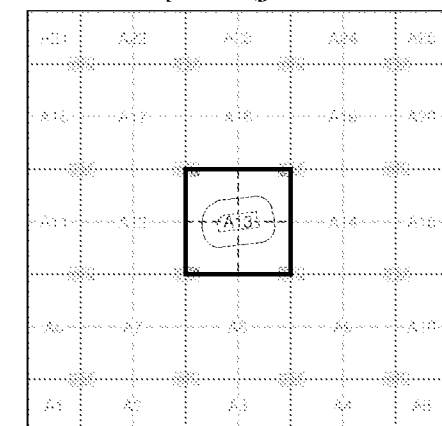
Source map scale - 1:2,500

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

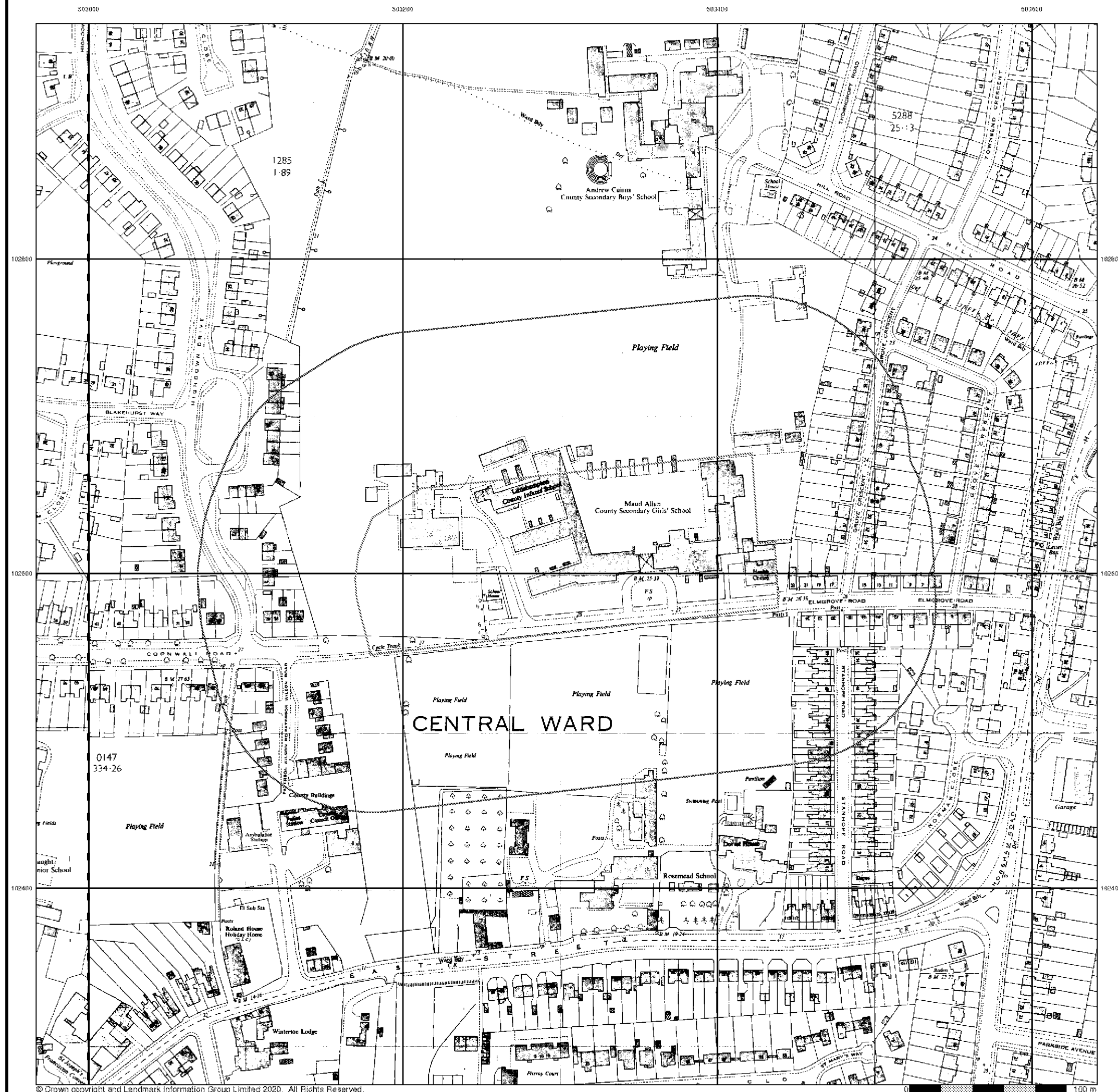


### Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

### Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



## Ordnance Survey Plan

Published 1973 - 1980

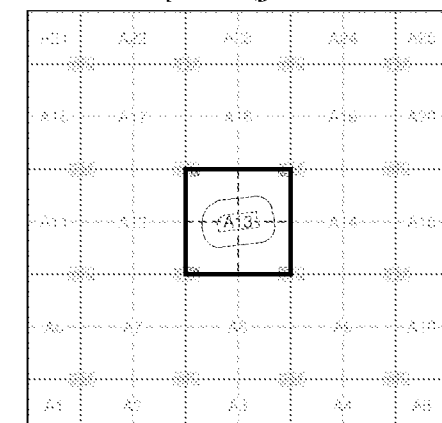
Source map scale - 1:1,250

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)

|                                                                     |                                                                     |                                                                     |
|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| <div> <div>TQ0302NW</div> <div>1980</div> <div>1:1,250</div> </div> |                                                                     |                                                                     |
| <div> <div>TQ0202SE</div> <div>1978</div> <div>1:1,250</div> </div> | <div> <div>TQ0302SW</div> <div>1980</div> <div>1:1,250</div> </div> | <div> <div>TQ0302SE</div> <div>1973</div> <div>1:1,250</div> </div> |

## Historical Map - Segment A13



## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

## Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE





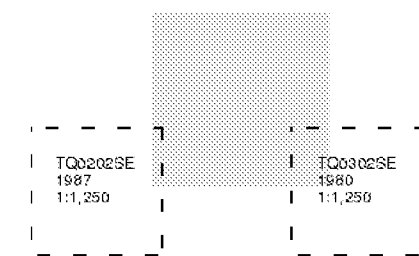
Ordnance Survey Plan

Published 1980 - 1987

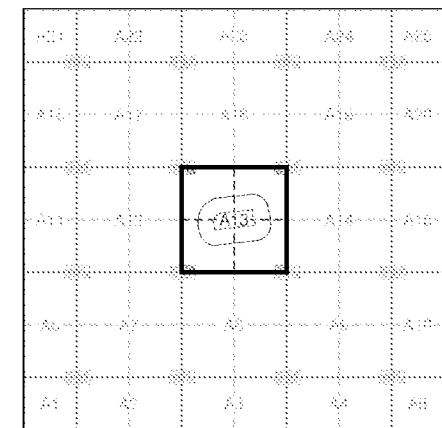
Source map scale - 1:1,250

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)



Historical Map - Segment A13



Order Details

Order Number: 245184381\_1\_1

Customer Ref: LP2265

National Grid Reference: 503310, 102610

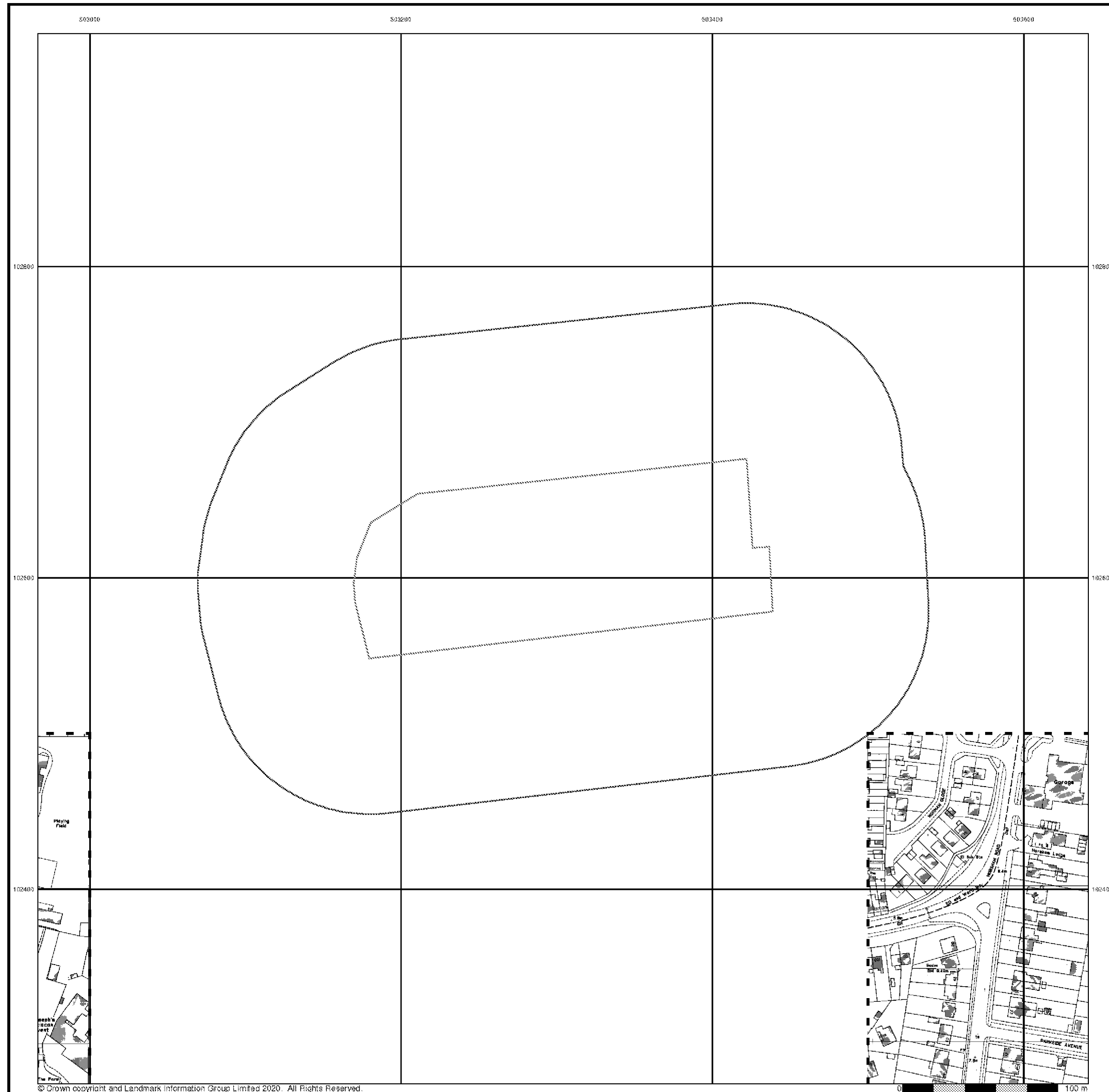
Slice: A

Site Area (Ha): 2.56

Search Buffer (m): 100

Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



## Additional SIMs

**Published 1984 - 1989**

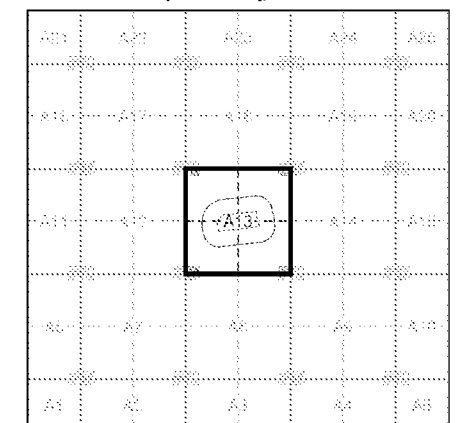
**Source map scale - 1:1,250**

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)

|          |          |
|----------|----------|
| TO0202NE |          |
| 1984     |          |
| 1:1,250  |          |
|          |          |
| TQ0202SE | TQ0202SW |
| 1984     | 1989     |
| 1:1,250  | 1:1,250  |

## Historical Map - Segment A13

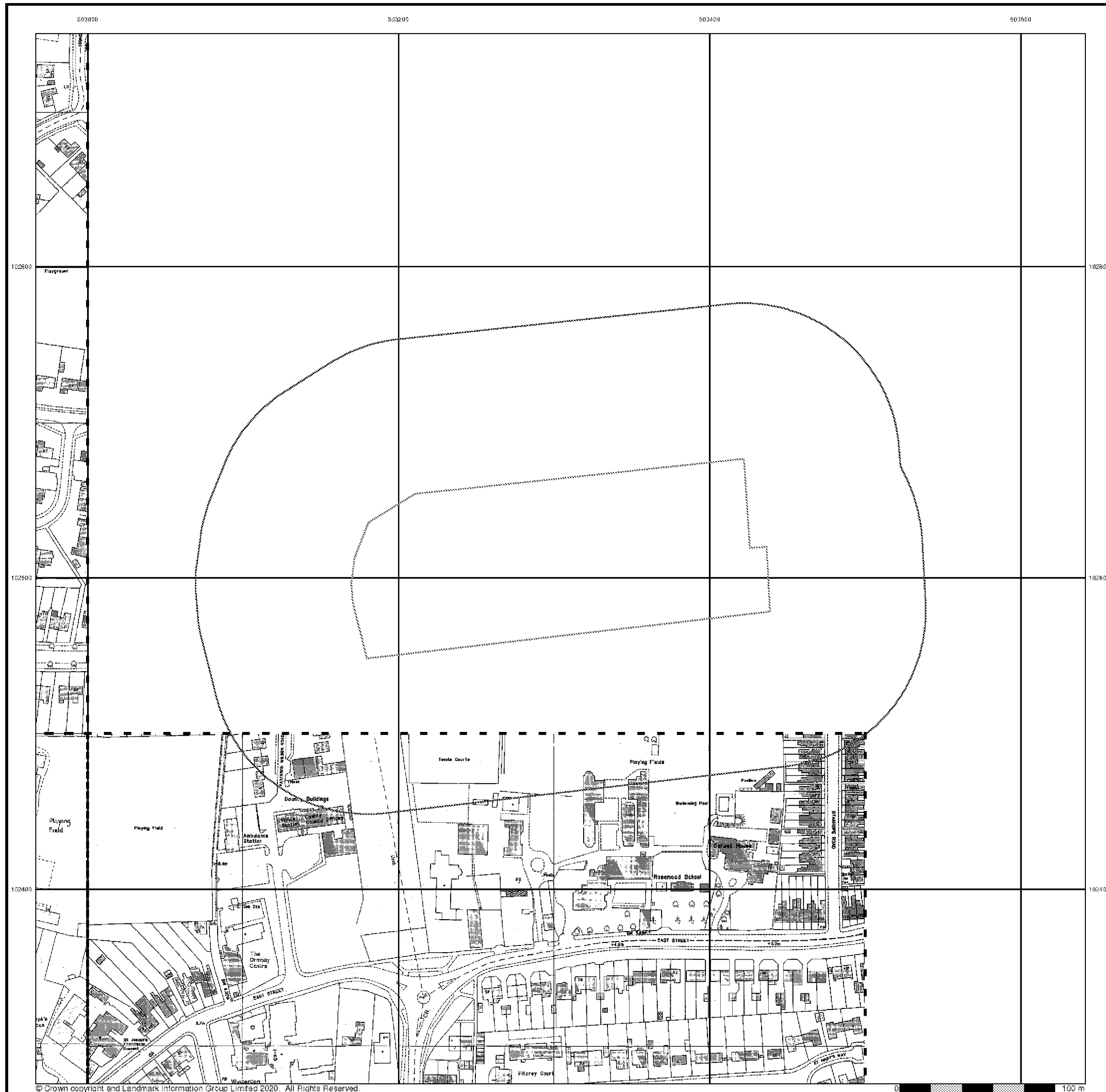


## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



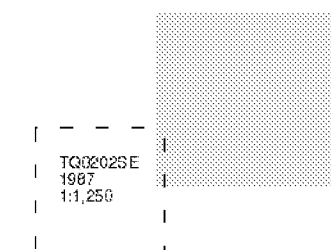
**Additional SIMs**

**Published 1987**

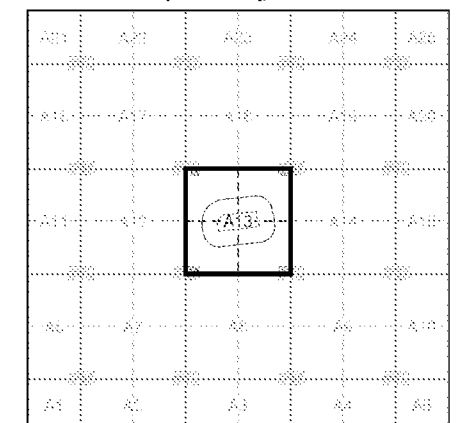
**Source map scale - 1:1,250**

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)**



**Historical Map - Segment A13**

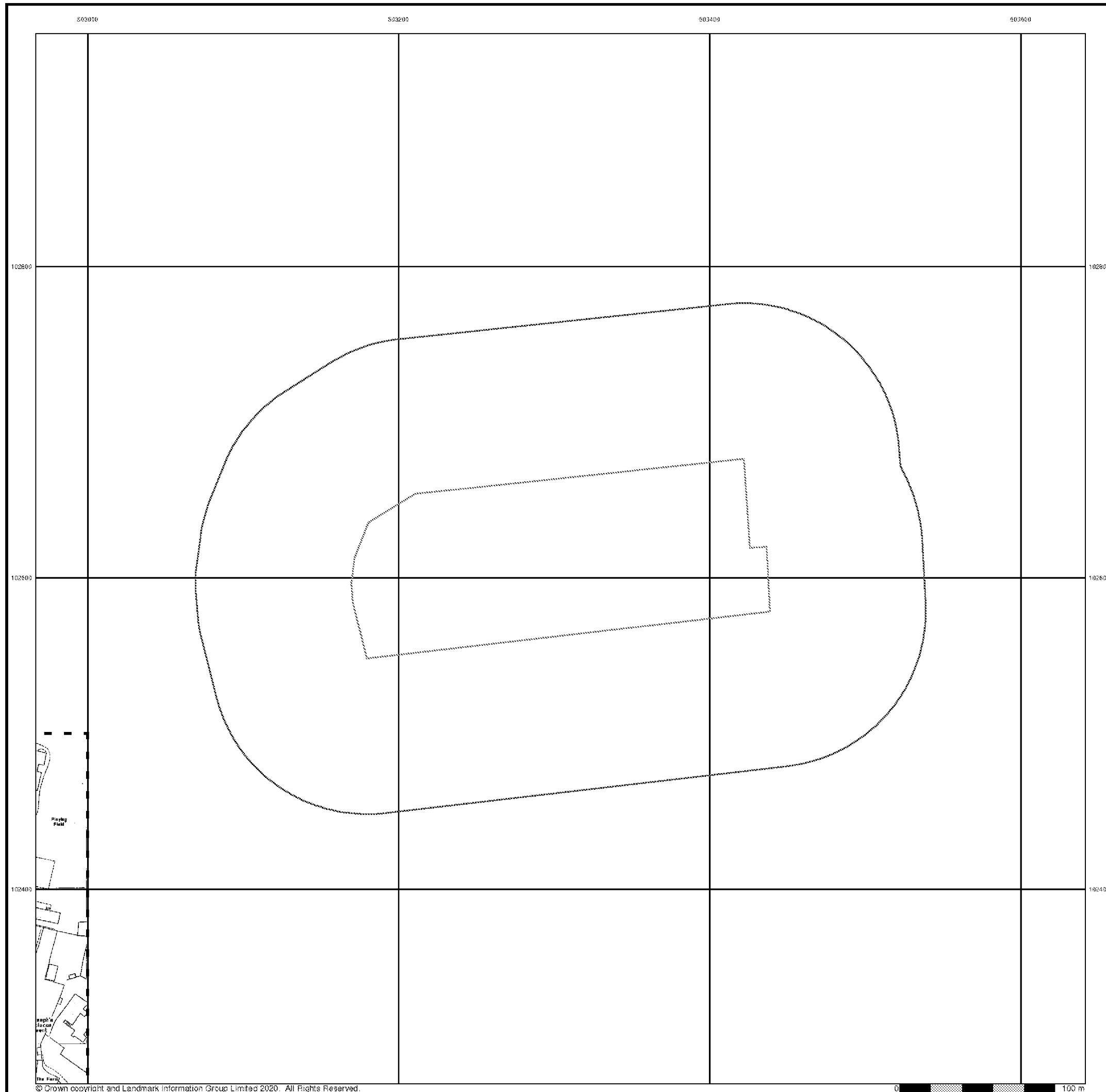


**Order Details**

Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 100

**Site Details**

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



## Large-Scale National Grid Data

Published 1994

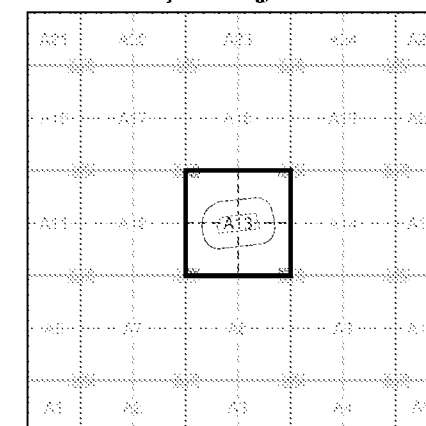
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

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

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| TQ0202NE<br>1994<br>1:1,250 | TQ0202NW<br>1994<br>1:1,250 | TQ0302NE<br>1994<br>1:1,250 |
| TQ0202SE<br>1994<br>1:1,250 | TQ0302SW<br>1994<br>1:1,250 | TQ0302SE<br>1994<br>1:1,250 |

### Historical Map - Segment A13



### Order Details

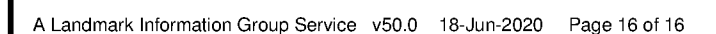
Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 100

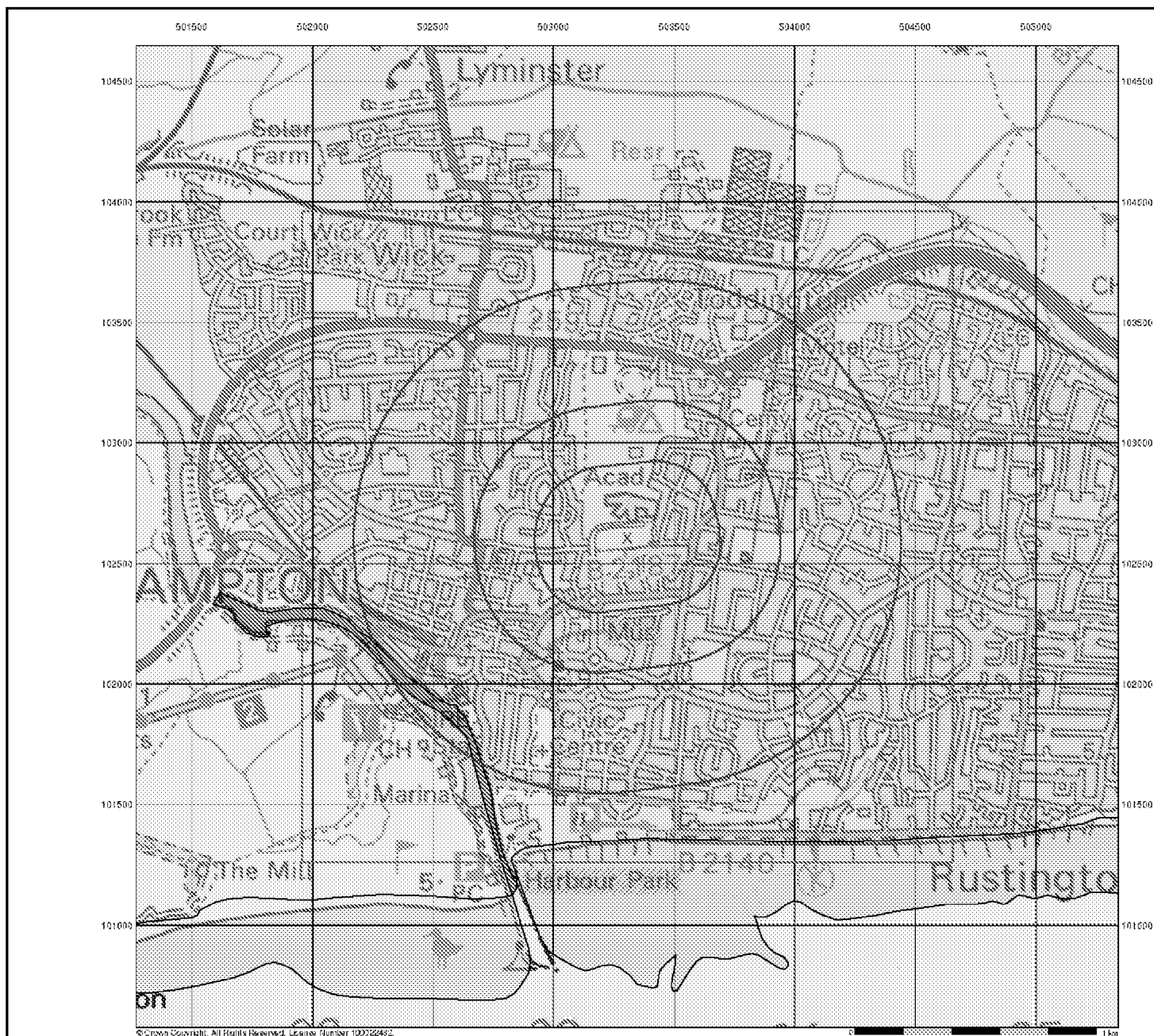
### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE









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## Groundwater Vulnerability

### General

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

### Agency and Hydrological

#### Bedrock Aquifers

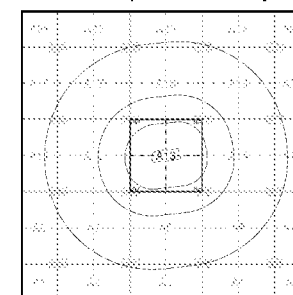
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

#### Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

### Site Sensitivity Context Map - Slice A



### Order Details

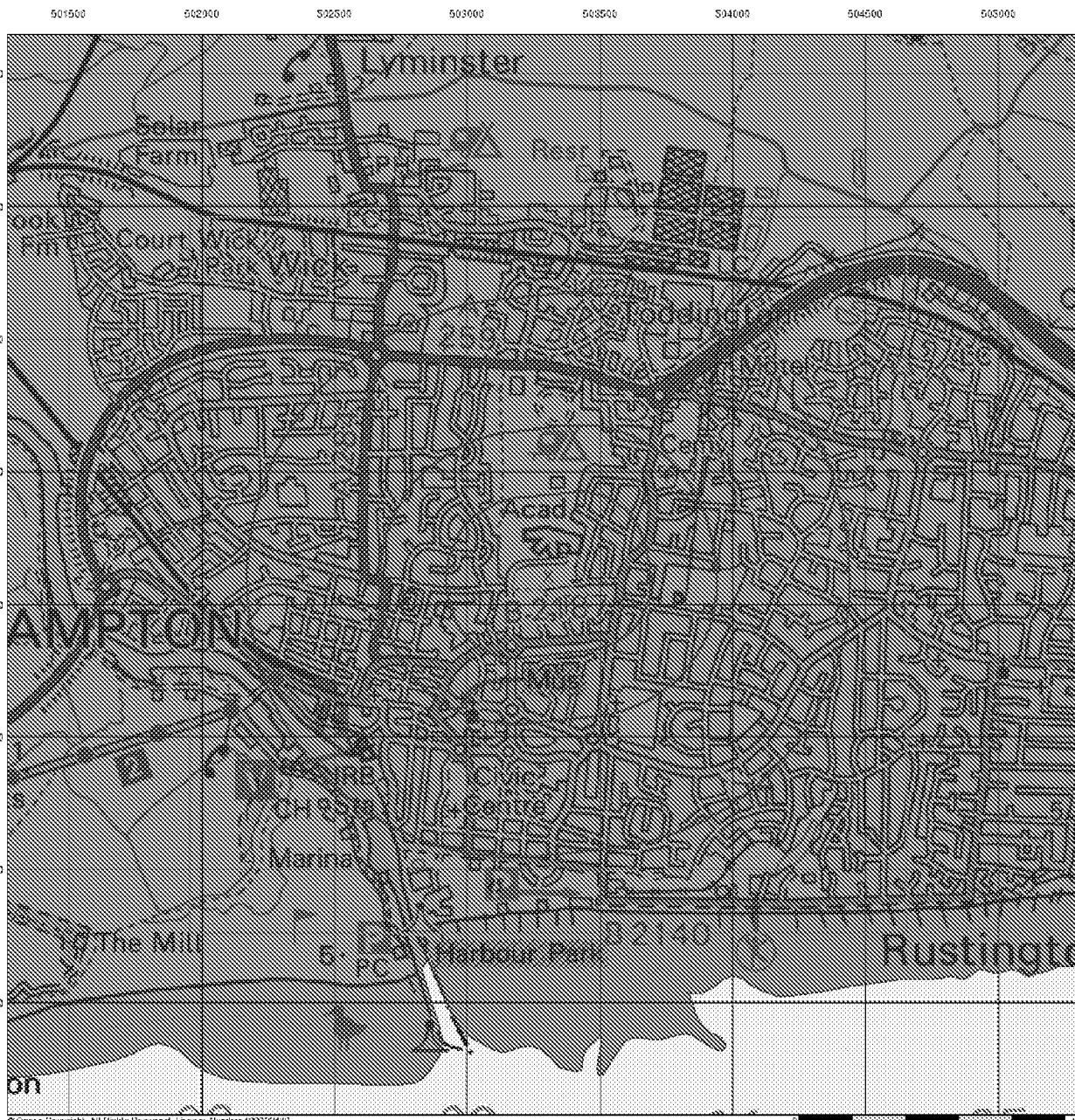
Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE

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## Bedrock Aquifer Designation

### General

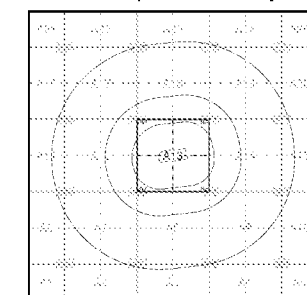
- ◊ Specified Site
- ◊ Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE

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 Fax: 01444 544 5551  
 Web: www.envirocheck.co.uk



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## Superficial Aquifer Designation

### General

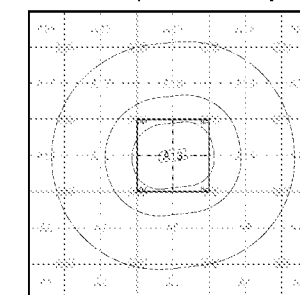
- ◆ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

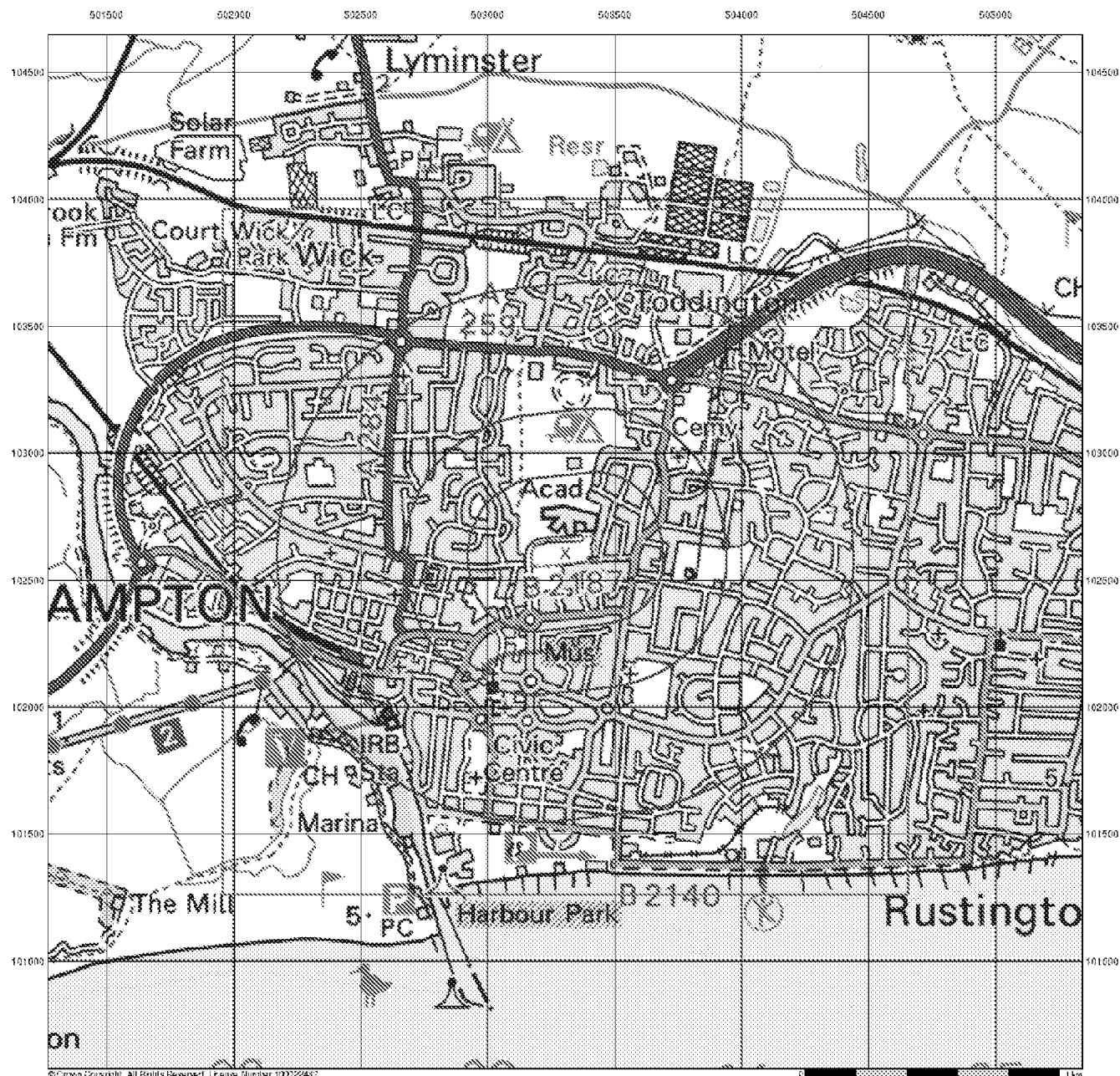
### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE

**Landmark**  
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## Source Protection Zones

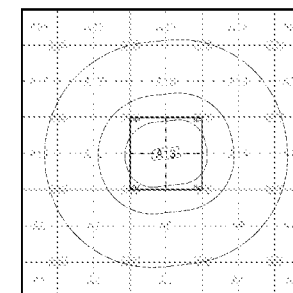
### General

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

### Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

## Site Sensitivity Context Map - Slice A



### Order Details

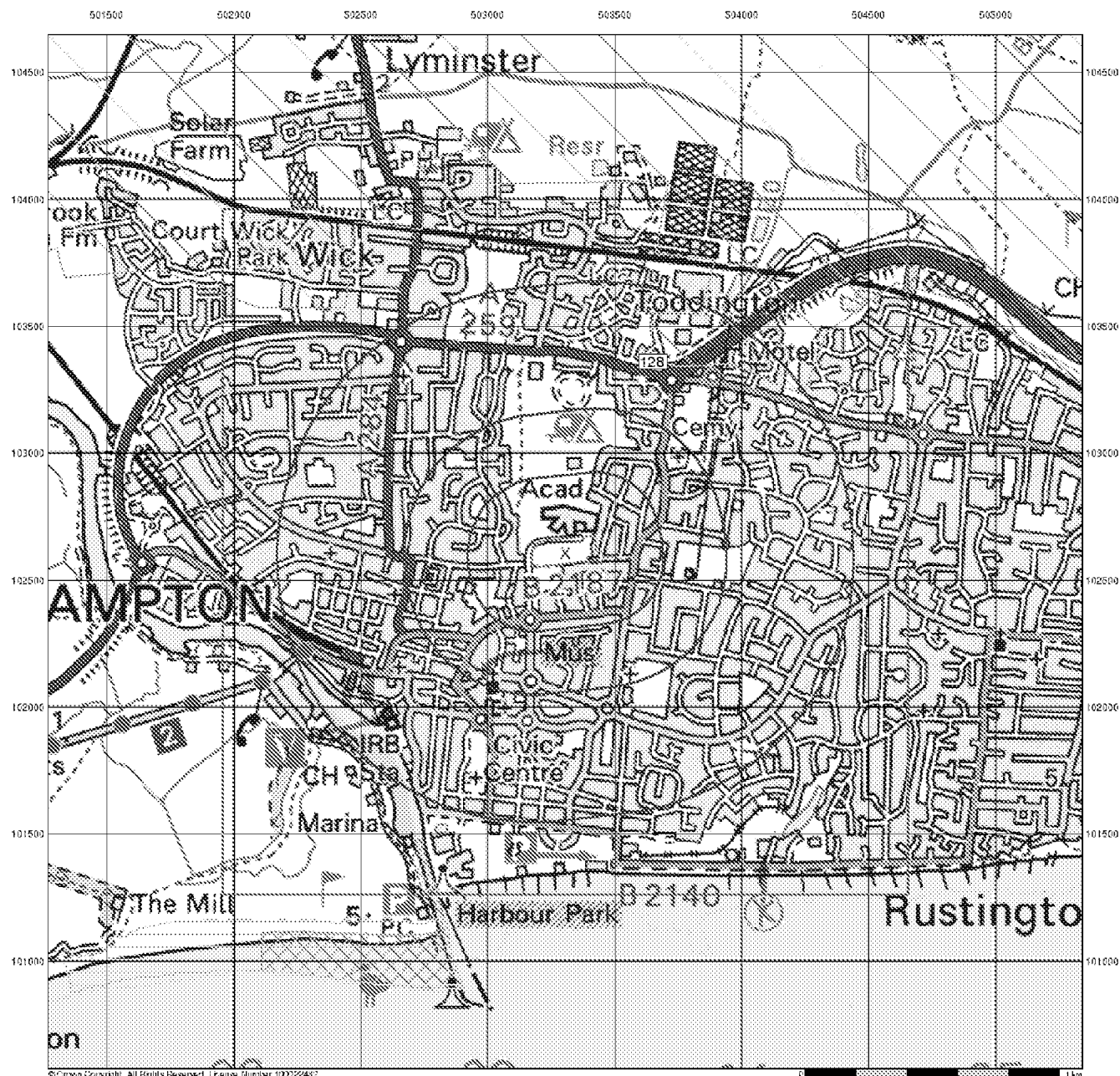
Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 1000

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE

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## Sensitive Land Uses

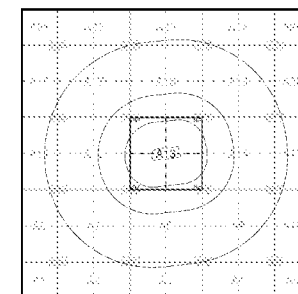
### General

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

### Sensitive Land Uses

- ◆ Ancient Woodlands
- ◆ Area of Adopted Green Belt
- ◆ Area of Unadopted Green Belt
- ◆ Area of Outstanding Natural Beauty
- ◆ Environmentally Sensitive Area
- ◆ Forest Park
- ◆ Local Nature Reserve
- ◆ Marine Nature Reserve
- ◆ National Nature Reserve
- ◆ National Park
- ◆ Nitrate Sensitive Area
- ◆ Nitrate Vulnerable Zone
- ◆ Ramsar Site
- ◆ Site of Special Scientific Interest
- ◆ Special Area of Conservation
- ◆ Special Protection Area
- ◆ World Heritage Sites

### Site Sensitivity Context Map - Slice A



### Order Details

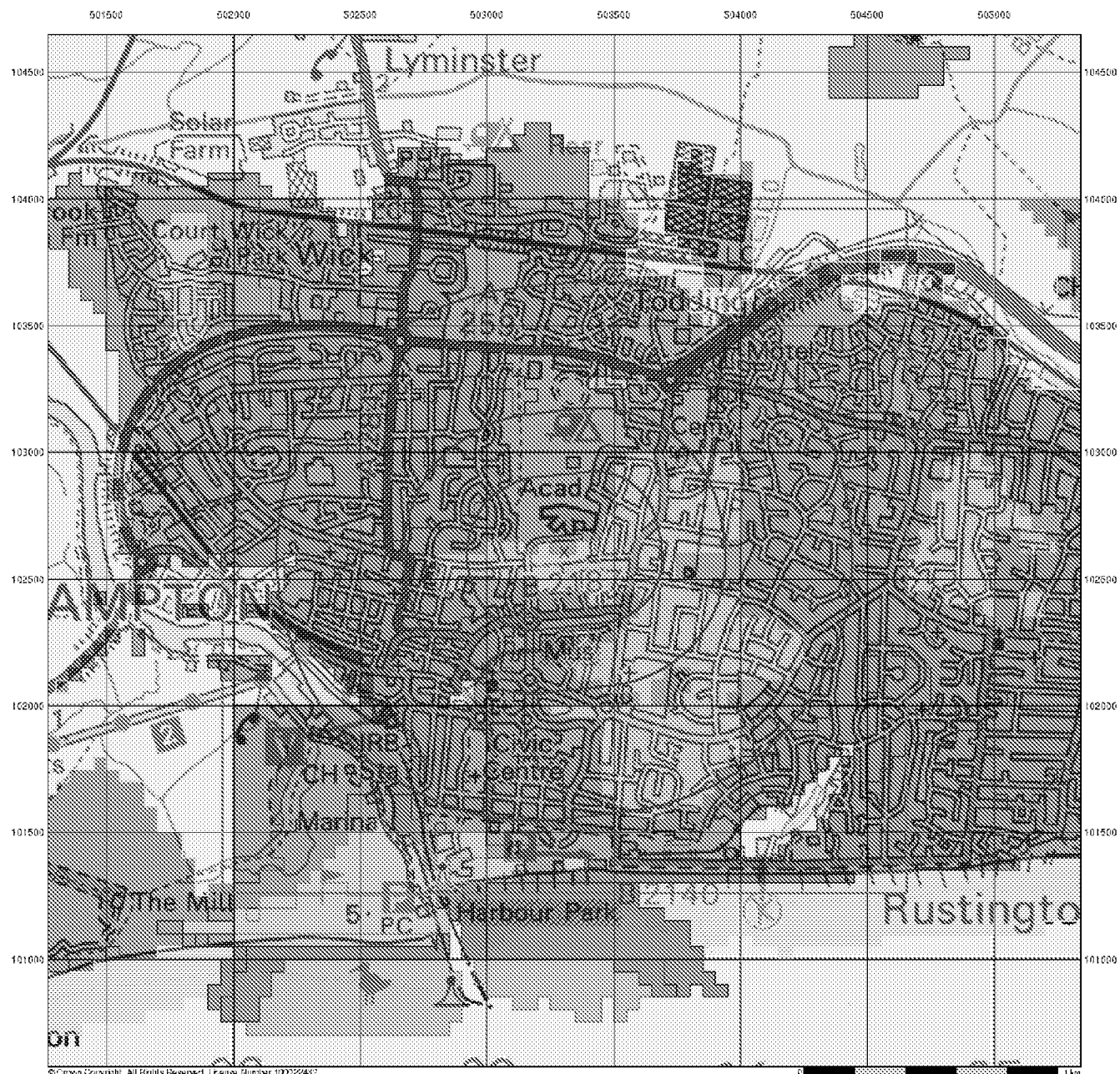
Order Number: 245184381\_1\_1  
Customer Ref: LP2265  
National Grid Reference: 503310, 102610  
Slice: A  
Site Area (Ha): 2.56  
Search Buffer (m): 1000

### Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE

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## BGS Flood GFS Data

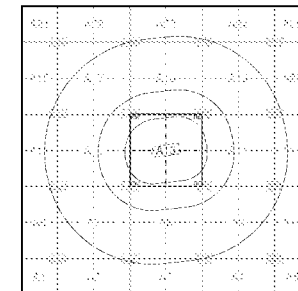
### General

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

### Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

## Site Sensitivity Context Map - Slice A



## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elm Grove Road, LITTLEHAMPTON, BN17 6FE

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## General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- 8 Map ID
- Several of Type at Location

## Agency and Hydrological

- 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 Enforcement
- Pollution Incident to Controlled Waters
- ▼ Prosecution Relating to Authorised Processes
- ◆ Prosecution Relating to Controlled Waters
- ▲ Registered Radioactive Substance
- ~ River Network or Water Feature
- ✚ River Quality Sampling Point
- 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
- 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

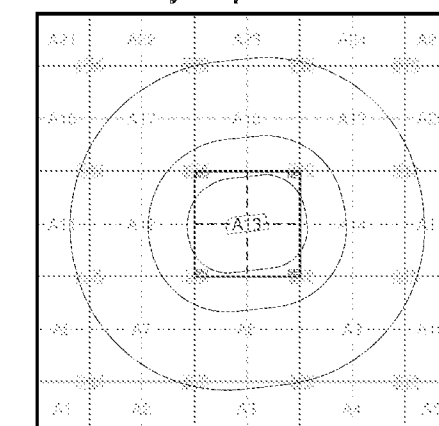
## Geological

- ▼ BGS Recorded Mineral Site

## Industrial Land Use

- ★ Contemporary Trade Directory Entry
- ★ Fuel Station Entry
- ✚ COMAH Site
- ✚ Explosive Site
- ✚ NIHS Site
- ✚ Planning Hazardous Substance Consent
- ✚ Planning Hazardous Substance Enforcement

## Site Sensitivity Map - Slice A

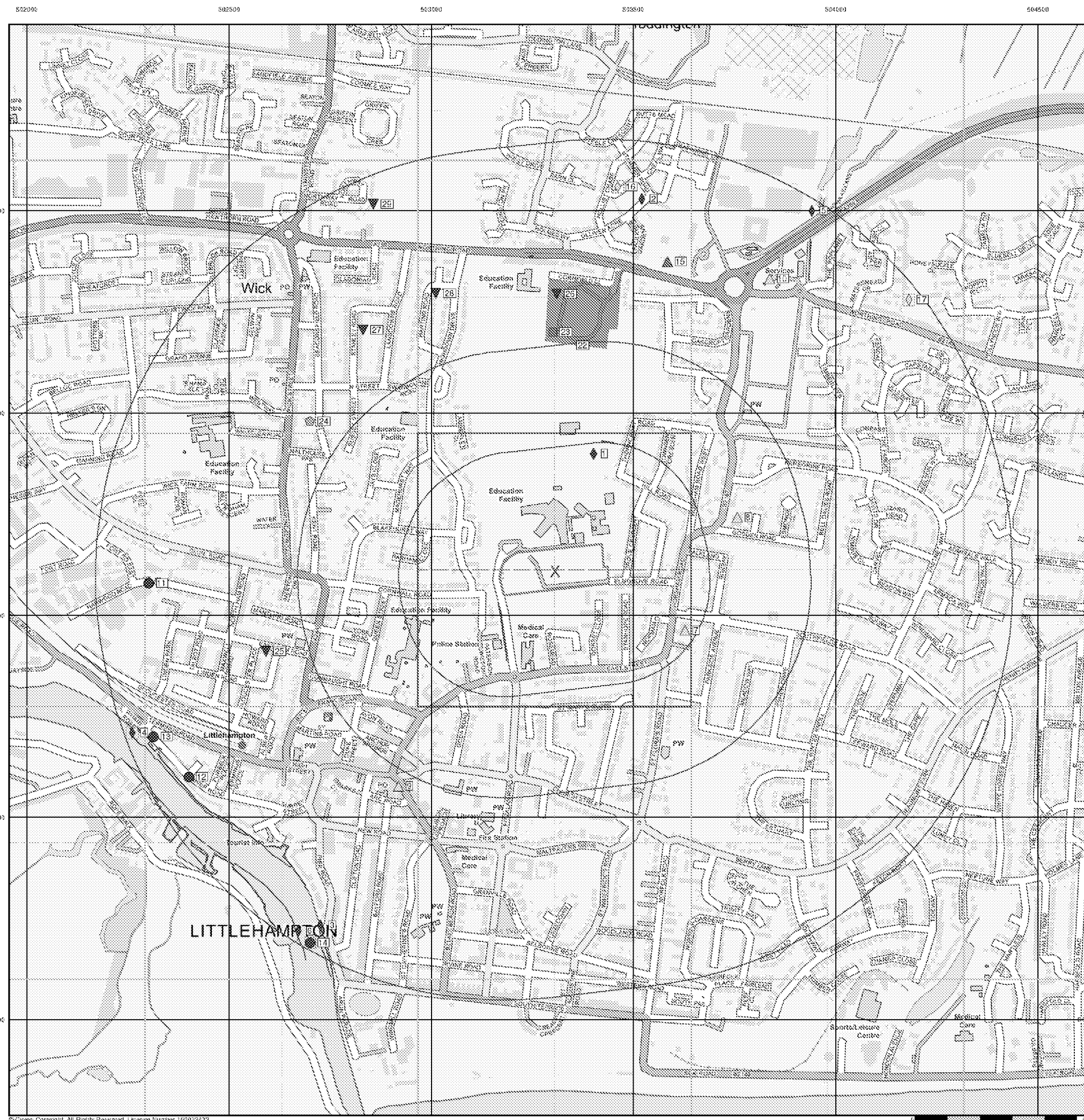


## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



## Industrial Land Use Map

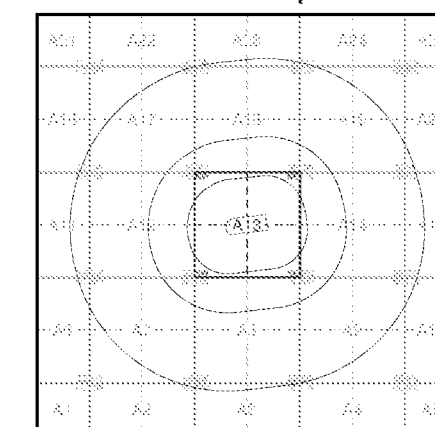
### General

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

### Industrial Land Use

- ★ Contemporary Trade Directory Entry
- ★ Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

## Industrial Land Use Map - Slice A

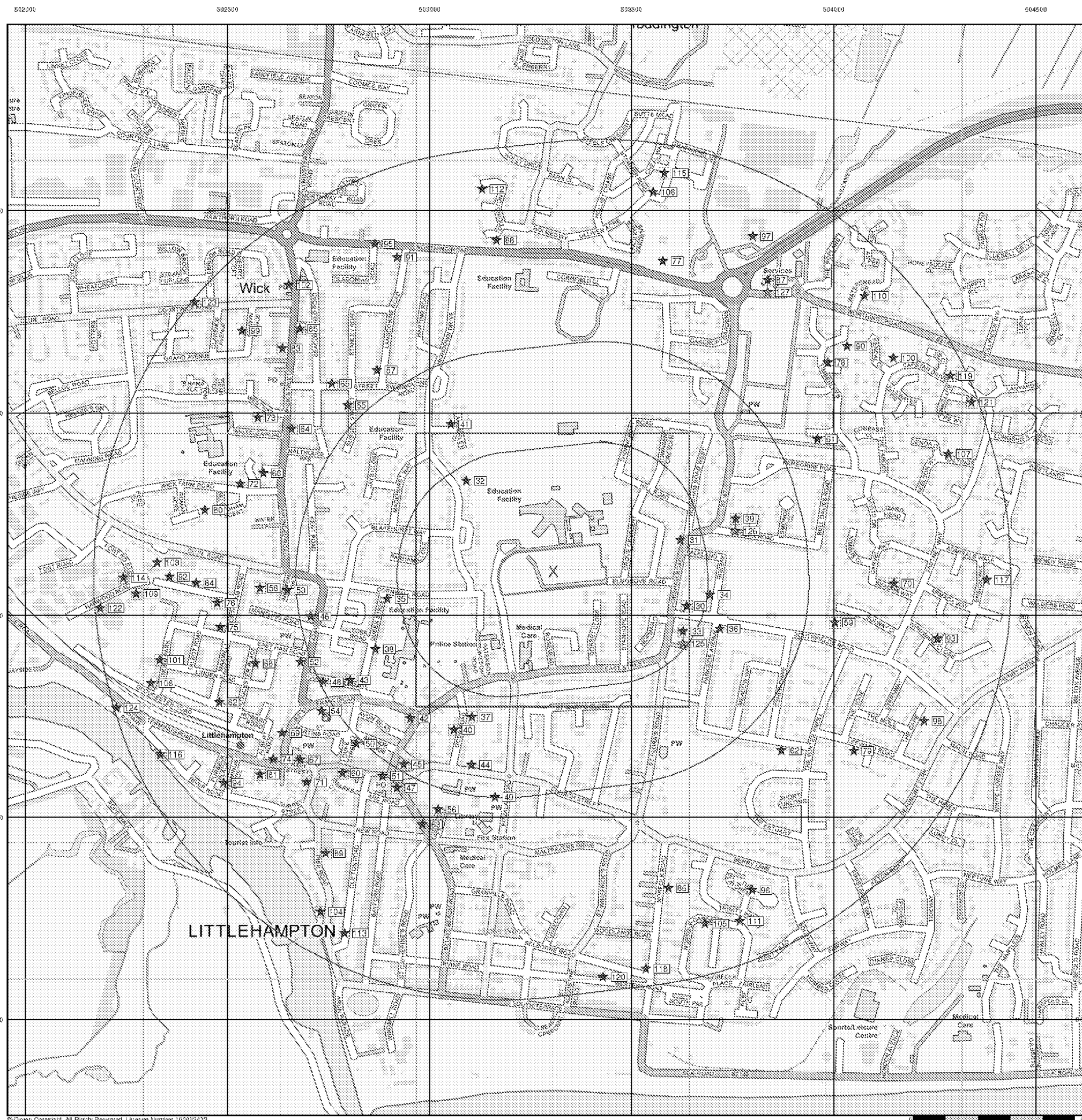


### Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

### Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE





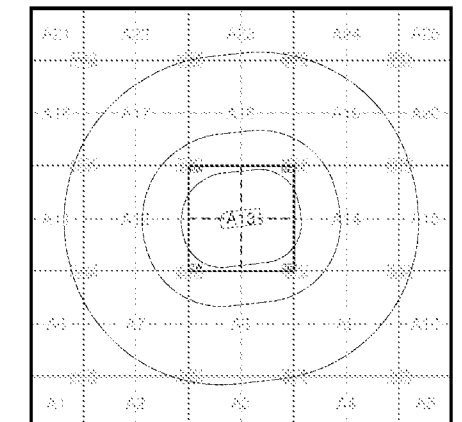
## General

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

## Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- ▨ Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

## Flood Map - Slice A

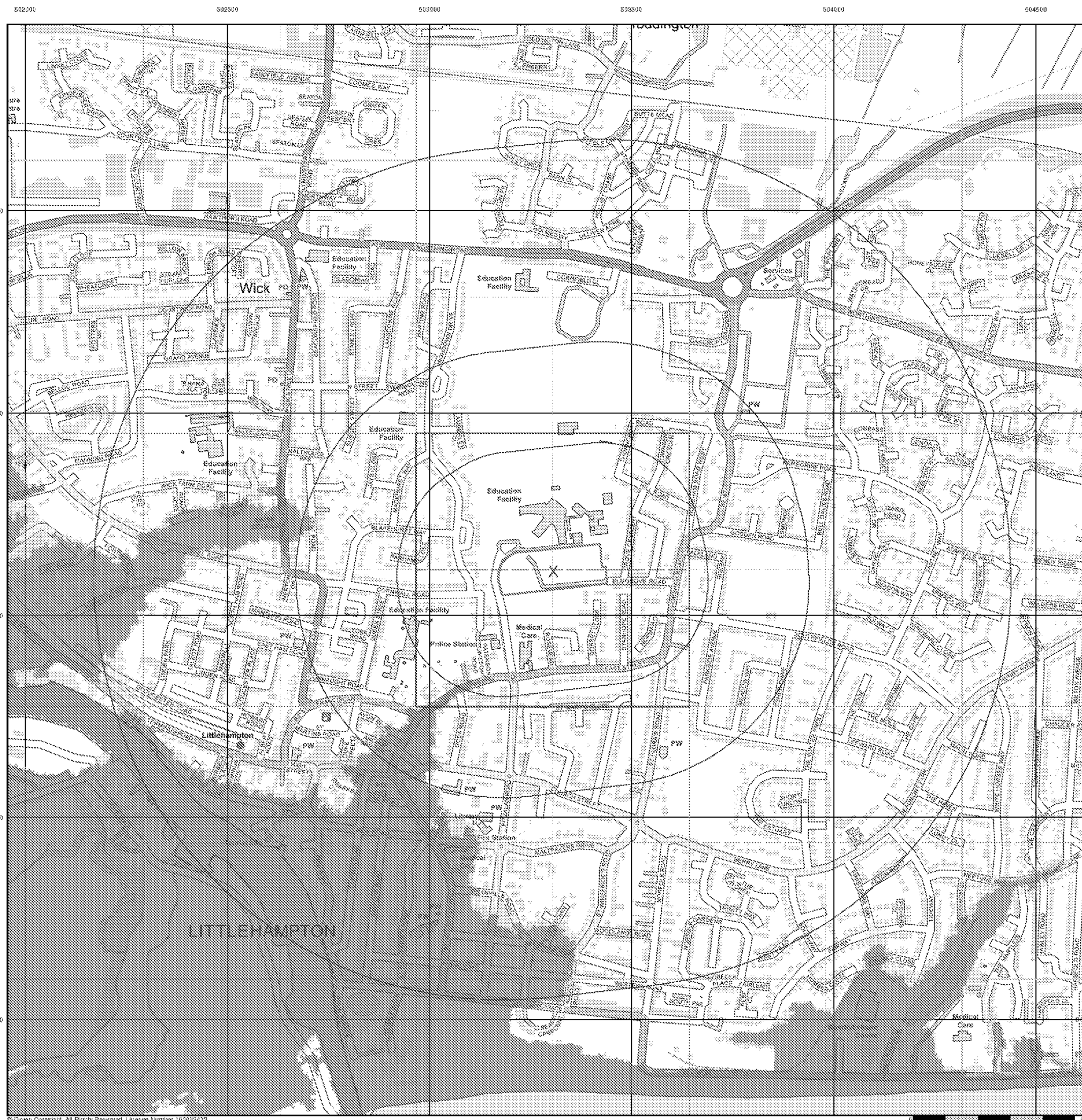


## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE



## General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Map ID
- Several of Type at Location

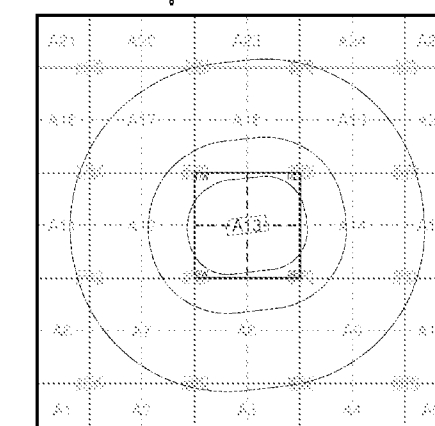
## Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

## Borehole Map - Slice A

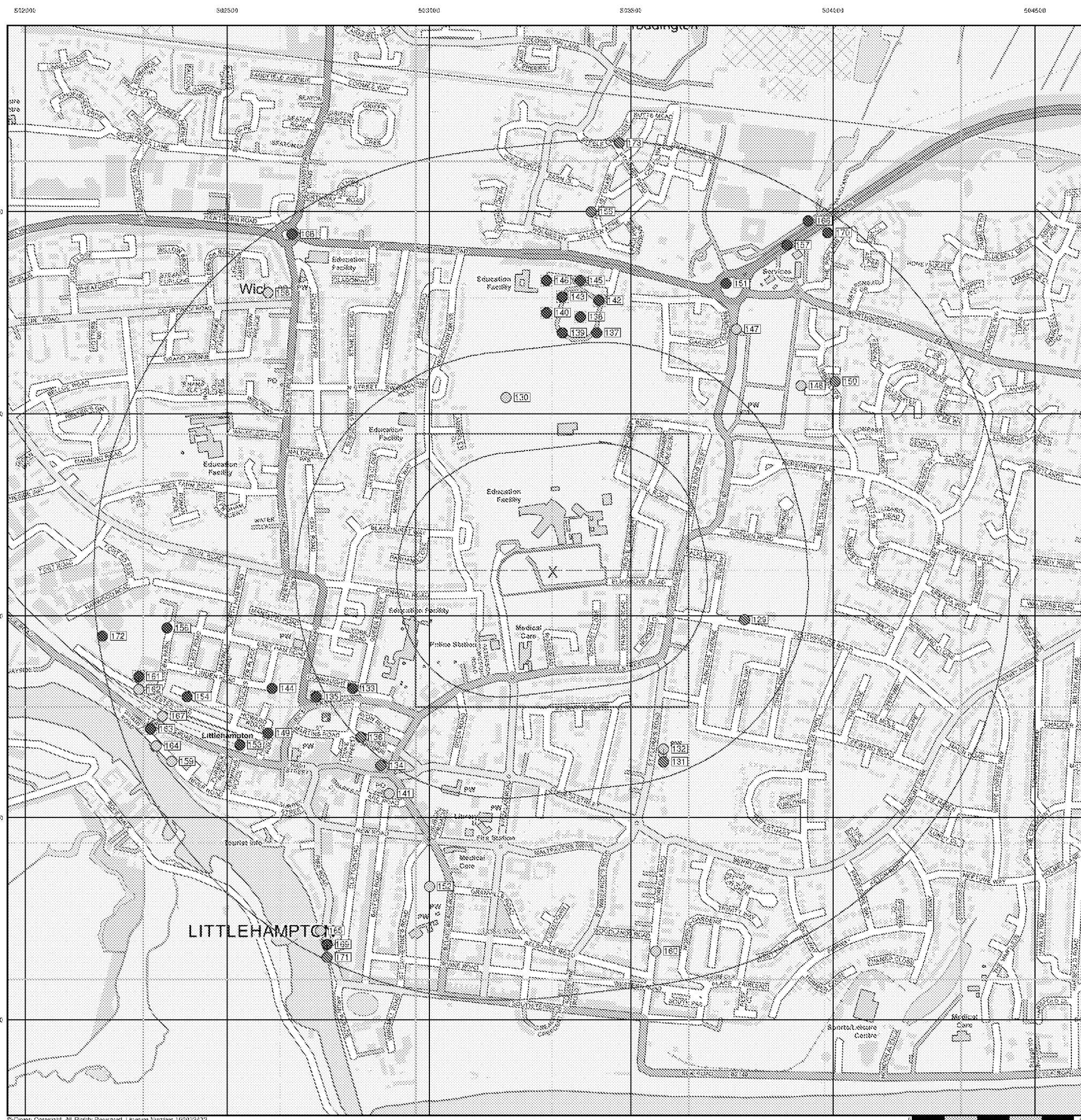


## Order Details

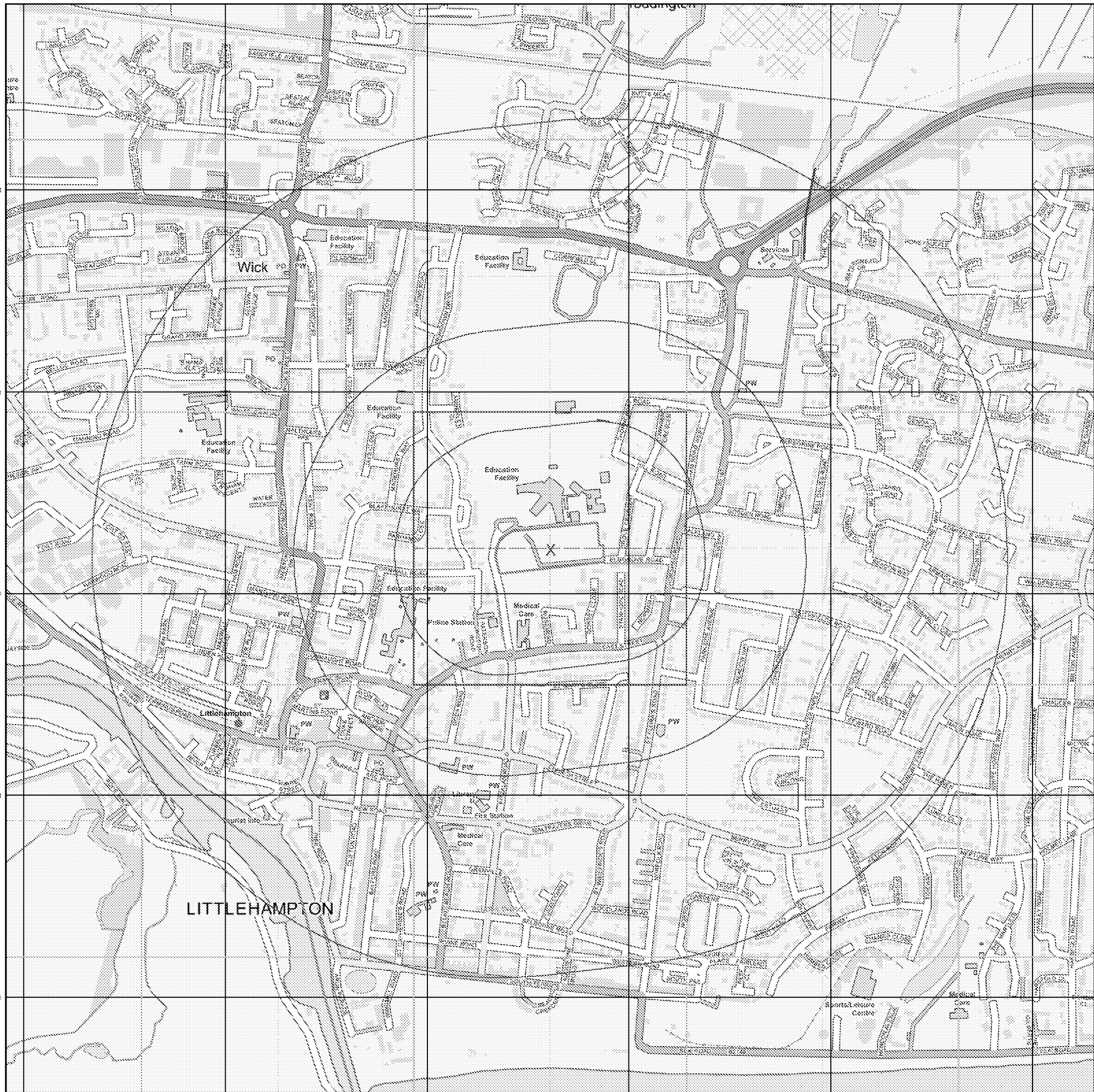
Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE







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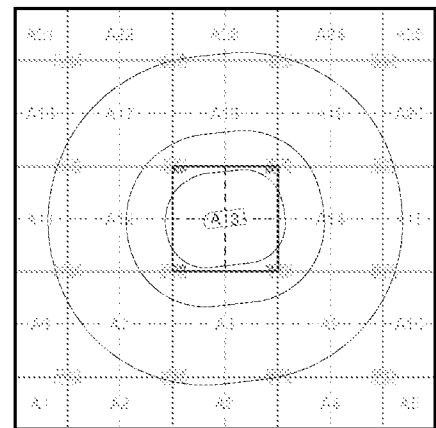
## General

- Specified Site
- Specified Buffer(s)
- X 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                     |

## OS Water Network Map - Slice A



## Order Details

Order Number: 245184381\_1\_1  
 Customer Ref: LP2265  
 National Grid Reference: 503310, 102610  
 Slice: A  
 Site Area (Ha): 2.56  
 Search Buffer (m): 1000

## Site Details

Land off Elmgrove Road, LITTLEHAMPTON, BN17 6FE

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 LANDMARK INFORMATION GROUP

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

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

Order Number:

245184381\_1\_1

Customer Reference:

LP2265

National Grid Reference:

503310, 102610

Slice:

A

Site Area (Ha):

2.56

Search Buffer (m):

1000

#### Site Details:

Land off Elmgrove Road

LITTLEHAMPTON

BN17 6FE

#### Client Details:

Mrs H Smith

Leap Environmental Ltd

The Atrium Business Centre

Curtis Road

Dorking

Surrey

RH4 1XA

| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 14          |
| Hazardous Substances  | -           |
| Geological            | 15          |
| Industrial Land Use   | 17          |
| Sensitive Land Use    | 32          |
| Data Currency         | 33          |
| Data Suppliers        | 38          |
| Useful Contacts       | 39          |

### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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### Report Version v53.0



| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                             |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     | Yes       |             | n/a                         |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                             |
| Discharge Consents                                            | pg 1        |         | 1         |             | 7                           |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                         |
| Enforcement and Prohibition Notices                           |             |         |           |             |                             |
| Integrated Pollution Controls                                 |             |         |           |             |                             |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                             |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                             |
| Local Authority Pollution Prevention and Controls             | pg 2        |         | 1         | 1           | 2                           |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                             |
| Nearest Surface Water Feature                                 | pg 3        | Yes     |           |             |                             |
| Pollution Incidents to Controlled Waters                      | pg 3        |         |           |             | 6                           |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                             |
| Registered Radioactive Substances                             | pg 4        |         |           |             | 1                           |
| River Quality                                                 |             |         |           |             |                             |
| River Quality Biology Sampling Points                         |             |         |           |             |                             |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                             |
| Substantiated Pollution Incident Register                     |             |         |           |             |                             |
| Water Abstractions                                            | pg 4        |         |           |             | 7 (*24)                     |
| Water Industry Act Referrals                                  |             |         |           |             |                             |
| Groundwater Vulnerability Map                                 | pg 12       | Yes     | n/a       | n/a         | n/a                         |
| Groundwater Vulnerability - Soluble Rock Risk                 | pg 12       | 1       | n/a       | n/a         | n/a                         |
| Bedrock Aquifer Designations                                  | pg 12       | Yes     | n/a       | n/a         | n/a                         |
| Superficial Aquifer Designations                              | pg 12       | Yes     | n/a       | n/a         | n/a                         |
| Source Protection Zones                                       |             |         |           |             |                             |
| Extreme Flooding from Rivers or Sea without Defences          | pg 12       |         | Yes       | n/a         | n/a                         |
| Flooding from Rivers or Sea without Defences                  | pg 12       |         | Yes       | 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 13       |         |           |             | 4                           |

| 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 14       |         |           | 1           |                                |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                                |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                                |
| Licensed Waste Management Facilities (Locations)                    |             |         |           |             |                                |
| Local Authority Landfill Coverage                                   | pg 14       | 2       | n/a       | n/a         | n/a                            |
| Local Authority Recorded Landfill Sites                             | pg 14       |         |           |             | 1                              |
| Registered Landfill Sites                                           |             |         |           |             |                                |
| Registered Waste Transfer Sites                                     |             |         |           |             |                                |
| Registered Waste Treatment or Disposal Sites                        | pg 14       |         |           |             | 1                              |
| <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 15       | Yes     | n/a       | n/a         | n/a                            |
| BGS Recorded Mineral Sites                                          | pg 15       |         |           |             | 5                              |
| CBSCB Compensation District                                         |             |         | n/a       | n/a         | n/a                            |
| Coal Mining Affected Areas                                          |             |         | n/a       | n/a         | n/a                            |
| Mining Instability                                                  |             |         | n/a       | n/a         | n/a                            |
| Man-Made Mining Cavities                                            |             |         |           |             |                                |
| Natural Cavities                                                    |             |         |           |             |                                |
| Non Coal Mining Areas of Great Britain                              | pg 15       | Yes     |           | n/a         | n/a                            |
| Potential for Collapsible Ground Stability Hazards                  | pg 15       | Yes     |           | n/a         | n/a                            |
| Potential for Compressible Ground Stability Hazards                 |             |         |           | n/a         | n/a                            |
| Potential for Ground Dissolution Stability Hazards                  | pg 16       | Yes     |           | n/a         | n/a                            |
| Potential for Landslide Ground Stability Hazards                    | pg 16       | Yes     |           | n/a         | n/a                            |
| Potential for Running Sand Ground Stability Hazards                 | pg 16       | Yes     |           | n/a         | n/a                            |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 16       | Yes     |           | n/a         | n/a                            |
| Radon Potential - Radon Affected Areas                              |             |         | n/a       | n/a         | n/a                            |
| Radon Potential - Radon Protection Measures                         |             |         | n/a       | n/a         | n/a                            |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                             |
| Contemporary Trade Directory Entries | pg 17       |         | 8         | 27          | 125                         |
| Fuel Station Entries                 | pg 30       |         | 1         | 1           | 1                           |
| Gas Pipelines                        |             |         |           |             |                             |
| Underground Electrical Cables        |             |         |           |             |                             |
| <b>Sensitive Land Use</b>            |             |         |           |             |                             |
| Ancient Woodland                     |             |         |           |             |                             |
| Areas of Adopted Green Belt          |             |         |           |             |                             |
| Areas of Unadopted Green Belt        |             |         |           |             |                             |
| Areas of Outstanding Natural Beauty  |             |         |           |             |                             |
| Environmentally Sensitive Areas      |             |         |           |             |                             |
| Forest Parks                         |             |         |           |             |                             |
| Local Nature Reserves                |             |         |           |             |                             |
| Marine Nature Reserves               |             |         |           |             |                             |
| National Nature Reserves             |             |         |           |             |                             |
| National Parks                       |             |         |           |             |                             |
| Nitrate Sensitive Areas              |             |         |           |             |                             |
| Nitrate Vulnerable Zones             | pg 32       |         |           |             | 1                           |
| Ramsar Sites                         |             |         |           |             |                             |
| Sites of Special Scientific Interest |             |         |           |             |                             |
| Special Areas of Conservation        |             |         |           |             |                             |
| Special Protection Areas             |             |         |           |             |                             |
| World Heritage Sites                 |             |         |           |             |                             |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A13SE (S)                              | 0                            | 1       | 503306 102600 |
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A13SW (SW)                             | 152                          | 1       | 503150 102400 |
| 1      | <b>Discharge Consents</b><br>Operator: West Sussex County Council<br>Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE<br>Location: Littlehampton Comm. School, Hill Road, Littlehampton, West Sussex<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: P04113<br>Permit Version: 1<br>Effective Date: 24th February 1992<br>Issued Date: 24th February 1992<br>Revocation Date: 31st March 1995<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Freshwater River<br><b>Status:</b> Post National Rivers Authority Legislation where issue date > 31/08/1989<br>Positional Accuracy: Located by supplier to within 100m | A13NE (N)                              | 225                          | 2       | 503400 102900 |
| 2      | <b>Discharge Consents</b><br>Operator: Firview Nursery<br>Property Type: Mixed Farming<br>Location: Firview Nursery, Toddington Lane, Littlehampton, West Sussex, Bn17 7qp<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: App/So/74su<br>Permit Version: 1<br>Effective Date: 1st April 1999<br>Issued Date: 1st April 1999<br>Revocation Date: 1st April 1999<br>Discharge Type: Trade Discharge - Process Water<br>Discharge: Into Land<br>Environment:<br>Receiving Water: Into Land<br><b>Status:</b> New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)<br>Positional Accuracy: Located by supplier to within 10m                                                    | A18NE (N)                              | 860                          | 2       | 503520 103530 |
| 3      | <b>Discharge Consents</b><br>Operator: Mr Rupert Cleaver<br>Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE)<br>Location: Penn House Old London Road, Coldwaltham, Pulborough, West Sussex, Rh20 1lf<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: Eprfb3994ey<br>Permit Version: 1<br>Effective Date: 3rd April 2017<br>Issued Date: 3rd April 2017<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Unnamed Trib Of Rover Rother<br><b>Status:</b> New issued under EPR 2010<br>Positional Accuracy: Located by supplier to within 10m                           | A7SE (SW)                              | 934                          | 2       | 502725 101733 |
| 4      | <b>Discharge Consents</b><br>Operator: Southern Water Services Ltd<br>Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Maxwell Rd/East Ham Rd, Littlehampton, Sussex<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: A00864<br>Permit Version: 1<br>Effective Date: 13th July 2001<br>Issued Date: 13th July 2001<br>Revocation Date: 31st March 2018<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Freshwater River<br><b>Status:</b> Surrendered under EPR 2010<br>Positional Accuracy: Located by supplier to within 10m                                                                               | A6NE (W)                               | 962                          | 2       | 502280 102210 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 4      | <b>Discharge Consents</b><br>Operator: Southern Water Services Limited. +<br>Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY)<br>Location: Talbot Road Littlehampton Cso, Talbot Road, Littlehampton, West Sussex, Bn17 7bp<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Adur Estuary & Freshwater Tributaries<br>Reference: A01261<br>Permit Version: 1<br>Effective Date: 7th February 2008<br>Issued Date: 7th February 2008<br>Revocation Date: 31st March 2018<br>Discharge Type: Public Sewage: Storm Sewage Overflow<br>Discharge: Saline Estuary<br>Environment:<br>Receiving Water: River Arun (Tidal)<br><b>Status:</b> Surrendered under EPR 2010<br>Positional Accuracy: Located by supplier to within 10m | A6NE (W)                               | 965                          | 2       | 502280 102200 |
| 4      | <b>Discharge Consents</b><br>Operator: The Occupier<br>Property Type: FOOD+BEVERAGE SERVICES/CAFE/RESTAURANT/PUB<br>Location: The Arun View Inn, Wharf Road, Littlehampton West Sussex<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: S01458<br>Permit Version: 1<br>Effective Date: 12th April 1966<br>Issued Date: 12th April 1966<br>Revocation Date: 31st March 1997<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge: Controlled Sea<br>Environment:<br>Receiving Water: Controlled Sea<br><b>Status:</b> Lapsed (under Environment Act 1995, Schedule 23)<br>Positional Accuracy: Located by supplier to within 100m                                                                 | A6NE (W)                               | 980                          | 2       | 502260 102210 |
| 5      | <b>Discharge Consents</b><br>Operator: West Sussex County Council<br>Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION<br>Location: A259 Rustington By-Pass, Western Roundabout, West Sussex<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Given<br>Reference: P01566<br>Permit Version: 1<br>Effective Date: 17th May 1988<br>Issued Date: 17th May 1988<br>Revocation Date: 31st March 1997<br>Discharge Type: Discharge Of Other Matter-Surface Water<br>Discharge: Freshwater Stream/River<br>Environment:<br>Receiving Water: Freshwater River<br><b>Status:</b> Lapsed (under Environment Act 1995, Schedule 23)<br>Positional Accuracy: Located by supplier to within 100m                                   | A19NW (NE)                             | 973                          | 2       | 503940 103500 |
| 6      | <b>Discharge Consents</b><br>Operator: Ms S Jenkins, Hon. Secretary<br>Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA<br>Location: Arun Yacht Club, Littlehampton, West Sussex<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Not Supplied<br>Reference: S01173<br>Permit Version: 1<br>Effective Date: 1st June 1961<br>Issued Date: 1st June 1961<br>Revocation Date: 11th May 1995<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Controlled Sea<br>Environment:<br>Receiving Water: Controlled Sea<br><b>Status:</b> Pre National Rivers Authority Legislation where issue date < 01/09/1989<br>Positional Accuracy: Located by supplier to within 10m        | A7SE (SW)                              | 973                          | 2       | 502670 101720 |
| 7      | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Cuff Miller & Co Ltd<br>Location: Horsham Road, LITTLEHAMPTON, West Sussex, BN17 6BX<br>Authority: Arun District Council, Environmental Health Department<br>Permit Reference: 1946<br>Dated: 29th October 1998<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/14 Petrol filling station<br><b>Status:</b> Permitted<br>Positional Accuracy: Automatically positioned to the address                                                                                                                                                                                                                                                                              | A13SE (SE)                             | 224                          | 3       | 503627 102459 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 8      | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Yeomans Honda<br>Location: Thorncroft Garage, Horsham Road, LITTLEHAMPTON, West Sussex, BN17 6DP<br>Authority: Arun District Council, Environmental Health Department<br>Permit Reference: 1915<br>Dated: 29th May 1998<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/14 Petrol filling station<br><b>Status: Authorisation revoked</b><br>Positional Accuracy: Manually positioned to the address or location                                                       | A14NW (E)                              | 340                          | 3       | 503756 102738 |
| 9      | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Beach Road Dry Cleaners<br>Location: 4 Beach Road, Littlehampton, Bn17 5ht<br>Authority: Arun District Council, Environmental Health Department<br>Permit Reference: 8105<br>Dated: 13th March 2008<br>Process Type: Local Authority Air Pollution Control<br>Description: PG6/46 Dry cleaning<br><b>Status: Permitted</b><br>Positional Accuracy: Manually positioned to the address or location                                                                                                 | A7NE (SW)                              | 543                          | 3       | 502918 102073 |
| 10     | <b>Local Authority Pollution Prevention and Controls</b><br>Name: Shell Eastfield<br>Location: Worthing Road, Rustington, LITTLEHAMPTON, West Sussex, BN17 6LE<br>Authority: Arun District Council, Environmental Health Department<br>Permit Reference: 1941<br>Dated: 14th September 1998<br>Process Type: Local Authority Air Pollution Control<br>Description: PG1/14 Petrol filling station<br><b>Status: Permitted</b><br>Positional Accuracy: Automatically positioned to the address                                                                        | A19NW (NE)                             | 773                          | 3       | 503836 103328 |
|        | <b>Nearest Surface Water Feature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A13SW (W)                              | 0                            | -       | 503179 102603 |
| 11     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Waste Management Facilities<br>Location: Onyx Depot, Harwood Road, LITTLEHAMPTON<br>Authority: Environment Agency, Southern Region<br>Pollutant: Organic Chemicals : Diesel Fuels<br>Note: Not Supplied<br>Incident Date: 13th September 1999<br>Incident Reference: 2891<br>Catchment Area: Arun<br>Receiving Water: Potential River<br>Cause of Incident: Deliberate Action<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Approximate location provided by supplier | A12SW (W)                              | 870                          | 2       | 502300 102580 |
| 12     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Ships/Boats<br>Location: River Arun By The Arun View<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Diesel On River Arun<br>Incident Date: 24th April 1998<br>Incident Reference: 2547<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                       | A7NW (SW)                              | 900                          | 2       | 502400 102100 |
| 13     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Not Given<br>Location: Adjacent To Arun View Hotel<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Other Oil<br>Note: Slight Oil Pollution<br>Incident Date: 26th May 1993<br>Incident Reference: 661<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                  | A7NW (W)                               | 946                          | 2       | 502300 102200 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 14     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Ships/Boats<br>Location: Littlehampton Harbour, Jetty Adjacent To, Harbourmasters Office, LITTLEHAMPTON<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Petrol<br>Note: Fuel Leaking From Red Speedboat<br>Incident Date: 24th September 1996<br>Incident Reference: 1878<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oil Boat/Ship<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Unknown                                                                                | A7SE (SW)                              | 949                          | 2       | 502700 101730 |
| 14     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Industrial: Other<br>Location: Entrance To Littlehampton Harbour<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Diesel (Including Agricultural)<br>Note: Oil Sheen On River Arun; Industrial: Other<br>Incident Date: 9th December 1995<br>Incident Reference: 1521<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                  | A7SE (SW)                              | 975                          | 2       | 502700 101700 |
| 14     | <b>Pollution Incidents to Controlled Waters</b><br>Property Type: Miscellaneous Premises: Unknown<br>Location: Alongside, Harbour Masters Office<br>Authority: Environment Agency, Southern Region<br>Pollutant: Oils - Tars/Bitumen<br>Note: Oil/Tar On River Arun<br>Incident Date: 24th February 1997<br>Incident Reference: 2041<br>Catchment Area: Not Given<br>Receiving Water: Not Given<br>Cause of Incident: Oils/Related Products<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m                                                                           | A7SE (SW)                              | 979                          | 2       | 502700 101695 |
| 15     | <b>Registered Radioactive Substances</b><br>Name: Horticulture Research International<br>Location: Worthing Road, LITTLEHAMPTON, West Sussex, BN17 6LP<br>Authority: Environment Agency, Southern Region<br>Permit Reference: AH5094<br>Dated: 31st March 1991<br>Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)<br>Description: Authorisation under RSA<br>Status: <b>Authorisation either revoked or cancelled</b><br>Positional Accuracy: Located by supplier to within 100m                                                                                                    | A18NE (N)                              | 712                          | 2       | 503583 103370 |
| 16     | <b>Water Abstractions</b><br>Operator: Firview Nursery<br>Licence Number: 414025A<br>Permit Version: Not Supplied<br>Location: Firview Nursery, Toddington Lane, LITTLEHAMPTON<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture (General)<br>Abstraction Type: Not Supplied<br>Source: Pond or Lake<br>Daily Rate (m3): 68<br>Yearly Rate (m3): 511<br>Details: Additional Purpose: Spray Irrigation<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A18NE (N)                              | 880                          | 2       | 503465 103555 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 16     | <b>Water Abstractions</b><br>Operator: Yoder Toddington Ltd<br>Licence Number: 10/41/414025<br>Permit Version: 101<br>Location: Firview Nursery Toddington Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 17th October 2003<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                   | A18NE (N)                              | 885                          | 2       | 503460<br>103560 |
| 16     | <b>Water Abstractions</b><br>Operator: Yoder Toddington Ltd<br>Licence Number: 10/41/414025<br>Permit Version: 101<br>Location: Firview Nursery Toddington Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 17th October 2003<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A18NE (N)                              | 885                          | 2       | 503460<br>103560 |
| 16     | <b>Water Abstractions</b><br>Operator: Firview Nursery<br>Licence Number: 10/41/414025<br>Permit Version: 100<br>Location: Firview Nursery Toddington Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 23rd March 1966<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m       | A18NE (N)                              | 885                          | 2       | 503460<br>103560 |
| 16     | <b>Water Abstractions</b><br>Operator: Firview Nursery<br>Licence Number: 10/41/414025<br>Permit Version: 100<br>Location: Firview Nursery Toddington Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 23rd March 1966<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                          | A18NE (N)                              | 885                          | 2       | 503460<br>103560 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 17     | <b>Water Abstractions</b><br>Operator: Ministry Of Agriculture; Fisheries & Food<br>Licence Number: 414028<br>Permit Version: Not Supplied<br>Location: Former Glasshouse Crops Research Inst, LITTLEHAMPTON<br>Authority: Environment Agency, Southern Region<br>Abstraction: Garden Centre, Non Domestic Garden Or Horticulture<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 136<br>Yearly Rate (m3): 5682<br>Details: H5 Chalk; Licence Status: Revoked; Lapsed Or Cancelled<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Unknown | A19SE (NE)                             | 970                          | 2       | 504180<br>103280 |
| 17     | <b>Water Abstractions</b><br>Operator: Ministry Of Agriculture Fisheries & Food<br>Licence Number: 414028<br>Permit Version: Not Supplied<br>Location: Former , Glasshouse Crops Research Inst, LITTLEHAMPTON<br>Authority: Environment Agency, Southern Region<br>Abstraction: Spray Irrigation<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 0<br>Yearly Rate (m3): 0<br>Details: H5 Chalk; Licence Status: Revoked; Lapsed Or Cancelled<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Unknown                                       | A19NE (NE)                             | 995                          | 2       | 504200<br>103295 |
|        | <b>Water Abstractions</b><br>Operator: Yoder Toddington Ltd<br>Licence Number: 10/41/414019<br>Permit Version: 101<br>Location: Foxdale Nursery Toddington Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st November 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                        | A23SE (N)                              | 1086                         | 2       | 503580<br>103750 |
|        | <b>Water Abstractions</b><br>Operator: D W P Dales & Co<br>Licence Number: 10/41/414019<br>Permit Version: 100<br>Location: Foxdale Nursery Toddington Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 19th July 1967<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                              | A23SE (N)                              | 1086                         | 2       | 503580<br>103750 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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|        | <b>Water Abstractions</b><br>Operator: Yoder Toddington Ltd<br>Licence Number: 10/41/414031<br>Permit Version: 101<br>Location: Foxdale Nursery Toddington Lane (A)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st November 2004<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A24SW (N)                              | 1097                         | 2       | 503760<br>103720 |
|        | <b>Water Abstractions</b><br>Operator: D W P Dales & Co<br>Licence Number: 10/41/414031<br>Permit Version: 100<br>Location: Foxdale Nursery Toddington Lane (A)<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st August 1968<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m      | A24SW (N)                              | 1097                         | 2       | 503760<br>103720 |
|        | <b>Water Abstractions</b><br>Operator: Store Property Investments<br>Licence Number: 414034<br>Permit Version: Not Supplied<br>Location: Black Ditch, Church Farm, BODYSHOP SITE<br>Authority: Environment Agency, Southern Region<br>Abstraction: Impounding<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 0<br>Yearly Rate (m3): 0<br>Details: Tributary Of Arun<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Unknown                                                                                           | A24SE (NE)                             | 1116                         | 2       | 504000<br>103630 |
|        | <b>Water Abstractions</b><br>Operator: Arc Ltd (Solent Aggregates Ltd)<br>Licence Number: 10/41/411021<br>Permit Version: 100<br>Location: River Arun Estuary - Tidal<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: General Washing/Process Washing<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Tidal<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2016<br>Permit End Date: Not Supplied<br>Positional Accuracy: Unknown                   | A11SW (W)                              | 1286                         | 2       | 501910<br>102330 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Water Abstractions</b><br>Operator: Farfield Plants Limited<br>Licence Number: 10/41/411012<br>Permit Version: 102<br>Location: Borehole At Sandfield Nurseries<br>Authority: Environment Agency, Southern Region<br>Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 13th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m          | A22SW (NW)                             | 1459                         | 2       | 502560 103960 |
|        | <b>Water Abstractions</b><br>Operator: Sandfield Plant Ltd<br>Licence Number: 10/41/411012<br>Permit Version: 101<br>Location: Borehole At Sandfield Nurseries<br>Authority: Environment Agency, Southern Region<br>Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st November 1999<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m               | A22SW (NW)                             | 1459                         | 2       | 502560 103960 |
|        | <b>Water Abstractions</b><br>Operator: Kirin Agribo Toddington Ltd<br>Licence Number: 24/067<br>Permit Version: 1<br>Location: Borehole At Point 'A' At Kirin Agribo Toddington Nurseries<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 16th June 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A23NW (N)                              | 1461                         | 2       | 503090 104110 |
|        | <b>Water Abstractions</b><br>Operator: The Norman Nurseries Ltd<br>Licence Number: 411011<br>Permit Version: Not Supplied<br>Location: Norman Nurseries, Courtwick Lane, LITTLEHAMPTON<br>Authority: Environment Agency, Southern Region<br>Abstraction: Garden Centre, Non Domestic Garden Or Horticulture<br>Abstraction Type: Not Supplied<br>Source: Groundwater<br>Daily Rate (m3): 55<br>Yearly Rate (m3): 9092<br>Details: H5 Chalk<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Unknown                                                                              | A21SE (NW)                             | 1486                         | 2       | 502090 103645 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Water Abstractions</b><br>Operator: Yoder Toddington Ltd<br>Licence Number: 10/41/411004<br>Permit Version: 101<br>Location: Normans Nurseries Courtwick Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Horticulture and Nurseries: Animal Watering & General Use (Non Agricultural)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 6th October 2003<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A21SE (NW)                             | 1504                         | 2       | 502080 103660 |
|        | <b>Water Abstractions</b><br>Operator: The Normans Nurseries Ltd<br>Licence Number: 10/41/411004<br>Permit Version: 100<br>Location: Normans Nurseries Courtwick Lane<br>Authority: Environment Agency, Southern Region<br>Abstraction: Horticulture and Nurseries: Animal Watering & General Use (Non Agricultural)<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 14th July 1993<br>Permit End Date: Not Supplied<br>Positional Accuracy: Unknown                        | A21SE (NW)                             | 1504                         | 2       | 502080 103660 |
|        | <b>Water Abstractions</b><br>Operator: Mr J L Baird<br>Licence Number: 10/41/411016<br>Permit Version: 100<br>Location: Ryebank Rife And Elmer Rife<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints<br>Source: Surface<br>Daily Rate (m3): 1091<br>Yearly Rate (m3): 27272<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 8th December 2005<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                         | A6NW (W)                               | 1508                         | 2       | 501710 102210 |
|        | <b>Water Abstractions</b><br>Operator: James D Baird (Home Farm) Ltd<br>Licence Number: 10/41/411016<br>Permit Version: 101<br>Location: Ryebank Rife<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 30 September<br>Permit Start Date: 16th April 2019<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m          | A6NW (W)                               | 1511                         | 2       | 501720 102160 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Water Abstractions</b><br>Operator: G F Molica Esq<br>Licence Number: 24/065<br>Permit Version: 100<br>Location: Torri House<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                              | A22NW (NW)                             | 1631                         | 2       | 502320 104020 |
|        | <b>Water Abstractions</b><br>Operator: A F Molica Esq<br>Licence Number: 24/064<br>Permit Version: 100<br>Location: Marina House<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st April 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                             | A22NW (NW)                             | 1665                         | 2       | 502320 104060 |
|        | <b>Water Abstractions</b><br>Operator: Mr G Molica-Franco<br>Licence Number: 24/062<br>Permit Version: 103<br>Location: Sandfield Nursery<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 16th June 2009<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m          | A21NE (NW)                             | 1716                         | 2       | 502240 104070 |
|        | <b>Water Abstractions</b><br>Operator: Farfield Plants Limited<br>Licence Number: 24/062<br>Permit Version: 102<br>Location: Sandfield Nursery<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 13th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A21NE (NW)                             | 1716                         | 2       | 502240 104070 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Water Abstractions</b><br>Operator: Sandfield Plant Ltd<br>Licence Number: 24/062<br>Permit Version: 101<br>Location: Sandfield Nursery<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 1st November 1999<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                | A21NE (NW)                             | 1716                         | 2       | 502240 104070 |
|        | <b>Water Abstractions</b><br>Operator: J A Longhurst Ltd<br>Licence Number: 414020<br>Permit Version: Not Supplied<br>Location: Black Ditch , Church Farm, LYMINSTER<br>Authority: Environment Agency, Southern Region<br>Abstraction: Spray Irrigation<br>Abstraction Type: Not Supplied<br>Source: Surface<br>Daily Rate (m3): 655<br>Yearly Rate (m3): 9090<br>Details: Tributary Of Arun<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m                                                                                        | (N)                                    | 1775                         | 2       | 503350 104450 |
|        | <b>Water Abstractions</b><br>Operator: Mr K Langmead<br>Licence Number: 10/41/414014<br>Permit Version: 101<br>Location: Black Ditch At Manor Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 October<br>Permit Start Date: 1st April 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m  | (N)                                    | 1792                         | 2       | 503250 104460 |
|        | <b>Water Abstractions</b><br>Operator: Mr K Langmead<br>Licence Number: 10/41/414014<br>Permit Version: 100<br>Location: Black Ditch At Manor Farm<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Agriculture: Spray Irrigation - Direct<br>Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 October<br>Permit Start Date: 2nd April 1987<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | (N)                                    | 1792                         | 2       | 503250 104460 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Water Abstractions</b><br>Operator: A H Bowerman & Son Ltd<br>Licence Number: 10/41/411003<br>Permit Version: 100<br>Location: Court Wick Park Littlehampton<br>Authority: Environment Agency, Southern Region<br>Abstraction: General Farming And Domestic<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2008<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m | A21SW (NW)                             | 1844                         | 2       | 501720 103760 |
|        | <b>Water Abstractions</b><br>Operator: P Perella<br>Licence Number: 24/059<br>Permit Version: 100<br>Location: Glenvilla Lyminster<br>Authority: Environment Agency, Southern Region<br>Abstraction: Agriculture: Horticultural Watering<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: See Licence Map<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 21st May 1992<br>Permit End Date: Not Supplied<br>Positional Accuracy: Unknown                                              | A21NE (NW)                             | 1849                         | 2       | 502180 104190 |
|        | <b>Groundwater Vulnerability Map</b><br>Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability<br>Combined Vulnerability: Medium<br>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer<br>Pollutant Speed: Intermediate<br>Bedrock Flow: Well Connected Fractures<br>Dilution: 300-550 mm/year<br>Baseflow Index: >70%<br>Superficial: >90%<br>Patchiness:<br>Superficial Thickness: 3-10m<br>Superficial Recharge: High                                                                                                                                                                        | A13SE (N)                              | 0                            | 4       | 503306 102609 |
|        | <b>Groundwater Vulnerability - Soluble Rock Risk</b><br>Classification: Significant Risk - Problems Unlikely                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A13SE (N)                              | 0                            | 4       | 503306 102609 |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Principal Aquifer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A13SE (N)                              | 0                            | 4       | 503306 102609 |
|        | <b>Superficial Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A13SE (N)                              | 0                            | 4       | 503306 102609 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied                                                                                                                                                                                                                                                                                                                                                                                                                                          | A13SW (SW)                             | 195                          | 2       | 503173 102354 |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A13SW (SW)                             | 204                          | 2       | 503160 102344 |
|        | <b>Areas Benefiting from Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                              |         |               |
|        | <b>Flood Water Storage Areas</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                              |         |               |
|        | <b>Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                              |         |               |

| Map ID | Details                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 18     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 103.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Rother and Arun<br>Primacy: 1 | A19NW (NE)                             | 830                          | 5       | 503934<br>103329 |
| 19     | <b>OS Water Network Lines</b><br>Watercourse Form: Tidal river<br>Watercourse Length: 1150.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: River Arun<br>Catchment Name: Rother and Arun<br>Primacy: 1   | A7SW (SW)                              | 895                          | 5       | 502629<br>101841 |
| 20     | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 123.2<br>Watercourse Level: Not Supplied<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Rother and Arun<br>Primacy: 1      | A19NW (NE)                             | 915                          | 5       | 503938<br>103432 |
| 21     | <b>OS Water Network Lines</b><br>Watercourse Form: Tidal river<br>Watercourse Length: 913.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: River Arun<br>Catchment Name: Rother and Arun<br>Primacy: 1    | A7SE (SW)                              | 971                          | 5       | 502698<br>101706 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 22     | <b>Historical Landfill Sites</b><br>Licence Holder: Not Supplied<br>Location: Worthing Road, Littlehampton, Sussex<br>Name: Cornfield Close Caravan Site<br>Operator Location: Not Supplied<br>Boundary Accuracy: As Supplied<br>Provider Reference: EAHLD19985<br>First Input Date: 31st December 1960<br>Last Input Date: 31st December 1970<br>Specified Waste: Deposited Waste included Inert, Commercial and Household Waste<br>Type:<br>EA Waste Ref: 0<br>Regis Ref: Not Supplied<br>WRC Ref: 3800/8118<br>BGS Ref: Not Supplied<br>Other Ref: WD27/153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A18SE (N)                              | 484                          | 2       | 503374 103167 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Arun District Council<br>- Has no landfill data to supply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        | 0                            | 6       | 503306 102609 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: West Sussex County Council<br>- Has supplied landfill data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        | 0                            | 7       | 503306 102609 |
| 23     | <b>Local Authority Recorded Landfill Sites</b><br>Location: Worthing Road, Land Adjoining Cornfield Close, Littlehampton<br>Reference: JU/310/91<br>Authority: West Sussex County Council, Environment & Development<br><b>Last Reported Status:</b> Unknown<br>Types of Waste: Not Supplied<br>Date of Closure: Not Supplied<br>Positional Accuracy: Located by supplier to within 100m<br>Boundary Quality: Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A18SW (N)                              | 534                          | 7       | 503300 103200 |
| 24     | <b>Registered Waste Treatment or Disposal Sites</b><br>Licence Holder: Mrs D E White<br>Licence Reference: WSX/L1/0024<br>Site Location: Barn Works, Wick Street, Littlehampton, West Sussex<br>Operator Location: White Lodge, Toddington Lane, Littlehampton, West Sussex<br>Authority: Environment Agency - Southern Region, Sussex Area<br>Site Category: Scrapyard<br>Max Input Rate: Very Small (Less than 10,000 tonnes per year)<br>Waste Source: No known restriction on source of waste<br>Restrictions:<br>Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled<br>Dated: 1st March 1994<br>Preceded By: Not Given<br>Licence:<br>Superseded By: Not Given<br>Licence:<br>Positional Accuracy: Manually positioned to the address or location<br>Boundary Quality: Not Supplied<br>Authorised Waste<br>Compressed Gas Cylinders<br>Domestic Electrical Appliances<br>Electric/Electronic Components<br>Electric/Electronic Fitt.Fixture/Appl.<br>Empty Used Containers Capacity > 25 L<br>Ferrous Metal Scrap<br>Lead/Acid Batteries<br>Max.Waste Permitted By Licence<br>Motor Vehicles<br>Non-Ferrous Metal Scrap<br>Prohibited Waste<br>Asbestos<br>Metallic Powders<br>Pcb'S And Analogues<br>Percussive/Explosive/Similar Waste<br>Special Wastes N.O.S.<br>Sub'S Control. Radioactive Subs Act'60<br>Waste N.O.S.<br>Waste React.Violently W/Water Or Air | A17SE (NW)                             | 592                          | 2       | 502700 102980 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: White Chalk Subgroup                                                                                                                                                                                                                                                                                                                                                                                                                                           | A13SE (N)                              | 0                            | 1       | 503306 102609 |
| 25     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Littlehampton Brick Works<br>Location: Littlehampton, West Sussex<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 157621<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Quaternary<br>Geology: River Terrace Deposits (Undifferentiated)<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m | A12SW (W)                              | 605                          | 1       | 502590 102415 |
| 26     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Toddington Brickfield<br>Location: Littlehampton, West Sussex<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 16125<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Quaternary<br>Geology: River Terrace Deposits<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                         | A18NE (N)                              | 631                          | 1       | 503309 103299 |
| 27     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Worthing Road Brickfield<br>Location: Wick, Littlehampton, West Sussex<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 16126<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Quaternary<br>Geology: River Terrace Deposits<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                | A17SE (NW)                             | 673                          | 1       | 502830 103210 |
| 28     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Worthing Road Brickfield<br>Location: Wick, Littlehampton, West Sussex<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 16127<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Quaternary<br>Geology: River Terrace Deposits<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m                | A18NW (NW)                             | 677                          | 1       | 503010 103300 |
| 29     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Wick Brick Works<br>Location: Wick, Littlehampton, West Sussex<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 157620<br>Type: Opencast<br><b>Status: Ceased</b><br>Operator: Unknown Operator<br>Operator Location: Not Supplied<br>Periodic Type: Quaternary<br>Geology: River Terrace Deposits (Undifferentiated)<br>Commodity: Common Clay and Shale<br>Positional Accuracy: Located by supplier to within 10m    | A17NE (NW)                             | 937                          | 1       | 502856 103521 |
|        | <b>Coal Mining Affected Areas</b><br>In an area that might not be affected by coal mining                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                              |         |               |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                         | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                  | A13SE (N)                              | 0                            | 1       | 503306 102609 |

| Map ID | Details                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                   | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                     | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                    | A13NE (E)                              | 174                          | 1       | 503611 102618 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                       | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                         | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                           | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level).<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (N)                              | 0                            | 1       | 503306 102609 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service                     | A13SE (N)                              | 0                            | 1       | 503306 102609 |

| Map ID | Details                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 30     | <b>Contemporary Trade Directory Entries</b><br>Name: United Carpet Cleaning Masters<br>Location: 31c Horsham Rd, Littlehampton, West Sussex, BN17 6BZ<br>Classification: Carpet, Curtain & Upholstery Cleaners<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location | A13SE (E)                              | 160                          | -       | 503592 102536 |
| 30     | <b>Contemporary Trade Directory Entries</b><br>Name: Arun Mouldings<br>Location: 3, Southfields Road, Littlehampton, West Sussex, BN17 6AF<br>Classification: Glass Fibre Moulding, Materials & Manufacturers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address         | A13SE (E)                              | 205                          | -       | 503635 102523 |
| 30     | <b>Contemporary Trade Directory Entries</b><br>Name: Arun Mouldings<br>Location: 3, Southfields Road, Littlehampton, West Sussex, BN17 6AF<br>Classification: Glass Fibre Manufacturers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                 | A13SE (E)                              | 205                          | -       | 503635 102523 |
| 31     | <b>Contemporary Trade Directory Entries</b><br>Name: C M D Recovery<br>Location: 77, Horsham Road, Littlehampton, West Sussex, BN17 6DB<br>Classification: Breakdown and Recovery<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                     | A13NE (E)                              | 196                          | -       | 503620 102686 |
| 32     | <b>Contemporary Trade Directory Entries</b><br>Name: R T Spencer Services<br>Location: 64, Highdown Drive, Littlehampton, West Sussex, BN17 6HH<br>Classification: Firefighting Equipment<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                               | A13NW (NW)                             | 215                          | -       | 503091 102832 |
| 33     | <b>Contemporary Trade Directory Entries</b><br>Name: Cuff Miller Forces Cars<br>Location: Horsham Road, Littlehampton, BN17 6BX<br>Classification: Car Dealers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                        | A13SE (SE)                             | 223                          | -       | 503627 102460 |
| 33     | <b>Contemporary Trade Directory Entries</b><br>Name: Esso<br>Location: Horsham Road, Littlehampton, West Sussex, BN17 6BX<br>Classification: Petrol Filling Stations<br><b>Status:</b> Active<br>Positional Accuracy: Manually positioned within the geographical locality                                       | A13SE (SE)                             | 223                          | -       | 503627 102460 |
| 33     | <b>Contemporary Trade Directory Entries</b><br>Name: Cuff Miller<br>Location: Horsham Road, LITTLEHAMPTON, West Sussex, BN17 6BX<br>Classification: Car Dealers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                         | A13SE (SE)                             | 223                          | -       | 503627 102460 |
| 34     | <b>Contemporary Trade Directory Entries</b><br>Name: Mr Housework<br>Location: 34, Falkland Avenue, Littlehampton, West Sussex, BN17 6AB<br>Classification: Cleaning Services - Domestic<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                | A14SW (E)                              | 258                          | -       | 503695 102545 |
| 35     | <b>Contemporary Trade Directory Entries</b><br>Name: C L Services<br>Location: 89, Queen Street, Littlehampton, BN17 6EL<br>Classification: Commercial Cleaning Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                              | A12SE (W)                              | 279                          | -       | 502895 102540 |
| 36     | <b>Contemporary Trade Directory Entries</b><br>Name: Carroll Media Ltd<br>Location: 10, Southfields Road, Littlehampton, West Sussex, BN17 6AE<br>Classification: Photo & Digital Imaging Bureaus<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                     | A14SW (E)                              | 302                          | -       | 503719 102466 |
| 37     | <b>Contemporary Trade Directory Entries</b><br>Name: Profile Metal Finishing<br>Location: Goda Ct, Goda Rd, Littlehampton, West Sussex, BN17 6AS<br>Classification: Metal Finishing Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                   | A8NW (SW)                              | 310                          | -       | 503104 102248 |



| Map ID | Details                                                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 37     | <b>Contemporary Trade Directory Entries</b><br>Name: L A Ceramics<br>Location: 5, Goda Road, Littlehampton, West Sussex, BN17 6AS<br>Classification: Ceramic Manufacturers, Supplies & Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                   | A8NW (SW)                              | 334                          | -       | 503063 102236 |
| 38     | <b>Contemporary Trade Directory Entries</b><br>Name: Traffic Shepherd<br>Location: 45, Queen Street, Littlehampton, West Sussex, BN17 6EP<br>Classification: Furniture - Repairing & Restoring<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                    | A12SE (SW)                             | 341                          | -       | 502866 102416 |
| 39     | <b>Contemporary Trade Directory Entries</b><br>Name: Yeomans Honda<br>Location: Horsham Road, Littlehampton, West Sussex, BN17 6DN<br>Classification: Car Dealers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                 | A14NW (E)                              | 342                          | -       | 503757 102739 |
| 39     | <b>Contemporary Trade Directory Entries</b><br>Name: N B Recovery<br>Location: 7, Bellscroft Close, Littlehampton, West Sussex, BN17 6EA<br>Classification: Car Breakdown & Recovery Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                       | A14NW (E)                              | 372                          | -       | 503786 102753 |
| 40     | <b>Contemporary Trade Directory Entries</b><br>Name: Cobwebs Quality Cleaning<br>Location: 9, Goda Road, Littlehampton, West Sussex, BN17 6AS<br>Classification: Commercial Cleaning Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                       | A8NW (SW)                              | 354                          | -       | 503060 102216 |
| 40     | <b>Contemporary Trade Directory Entries</b><br>Name: Cobwebs Quality Cleaning<br>Location: 9, Goda Road, Littlehampton, West Sussex, BN17 6AS<br>Classification: Commercial Cleaning Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                     | A8NW (SW)                              | 354                          | -       | 503060 102216 |
| 41     | <b>Contemporary Trade Directory Entries</b><br>Name: R S Vehicle Inspections<br>Location: 1, Amberley Close, Wick, Littlehampton, West Sussex, BN17 6HN<br>Classification: Vehicle Inspection Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address              | A18SW (NW)                             | 355                          | -       | 503053 102972 |
| 42     | <b>Contemporary Trade Directory Entries</b><br>Name: Littlehampton Fantastic Cleaners<br>Location: 37, East Street, Littlehampton, West Sussex, BN17 6AU<br>Classification: Carpet, Curtain & Upholstery Cleaners<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW)                              | 381                          | -       | 502952 102244 |
| 42     | <b>Contemporary Trade Directory Entries</b><br>Name: Littlehampton Cleaners<br>Location: 37, East Street, Littlehampton, West Sussex, BN17 6AU<br>Classification: Carpet, Curtain & Upholstery Cleaners<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address           | A7NE (SW)                              | 381                          | -       | 502952 102244 |
| 43     | <b>Contemporary Trade Directory Entries</b><br>Name: Magical Maids<br>Location: 3, Queen Street, Littlehampton, West Sussex, BN17 6EP<br>Classification: Cleaning Services - Domestic<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                             | A12SE (SW)                             | 406                          | -       | 502843 102321 |
| 43     | <b>Contemporary Trade Directory Entries</b><br>Name: Levett & Quinn<br>Location: 17a, Connaught Road, Littlehampton, BN17 6ER<br>Classification: Boilers - Servicing, Replacements & Repairs<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                        | A12SE (SW)                             | 430                          | -       | 502804 102340 |
| 44     | <b>Contemporary Trade Directory Entries</b><br>Name: Downlands Machines<br>Location: 27, Church Street, Littlehampton, West Sussex, BN17 5EN<br>Classification: Vacuum Cleaners - Sales & Service<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                 | A8NW (SW)                              | 426                          | -       | 503104 102129 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 45     | <b>Contemporary Trade Directory Entries</b><br>Name: Blue Frog Cleaning Services<br>Location: Gratwicke House, 10, East Street, Littlehampton, BN17 6AW<br>Classification: Commercial Cleaning Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                         | A7NE (SW)                              | 446                          | -       | 502939 102173 |
| 45     | <b>Contemporary Trade Directory Entries</b><br>Name: M J S Auto & Marine<br>Location: Littlehampton, BN17 5AH<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                                                | A7NE (SW)                              | 475                          | -       | 502945 102136 |
| 45     | <b>Contemporary Trade Directory Entries</b><br>Name: Ats Euromaster Ltd<br>Location: Church Street, Littlehampton, West Sussex, BN17 5AH<br>Classification: Tyre Dealers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                      | A7NE (SW)                              | 484                          | -       | 502935 102131 |
| 45     | <b>Contemporary Trade Directory Entries</b><br>Name: A & A Cleaning Services<br>Location: 2, Manor Parade Flats, Church Street, LITTLEHAMPTON, West Sussex, BN17 5AJ<br>Classification: Carpet, Curtain & Upholstery Cleaners<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A7NE (SW)                              | 484                          | -       | 502956 102119 |
| 46     | <b>Contemporary Trade Directory Entries</b><br>Name: Cobra Cars<br>Location: Arundel Road, Littlehampton, BN17 7DE<br>Classification: Mot Testing Centres<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                                     | A12SE (W)                              | 473                          | -       | 502706 102497 |
| 46     | <b>Contemporary Trade Directory Entries</b><br>Name: Cobra Cars<br>Location: Arundel Road, Littlehampton, West Sussex, BN17 7DE<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                            | A12SE (W)                              | 473                          | -       | 502706 102497 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Alpha Catering Equipment Ltd<br>Location: Lloyds Bank Chambers, High Street, Littlehampton, West Sussex, BN17 5AG<br>Classification: Catering Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                  | A7NE (SW)                              | 493                          | -       | 502946 102115 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Mcb Components Ltd<br>Location: Lloyds Bank Chambers, High Street, Littlehampton, West Sussex, BN17 5AG<br>Classification: Distribution Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                         | A7NE (SW)                              | 493                          | -       | 502946 102115 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Coopers Cleaning Services<br>Location: 79, High Street, Littlehampton, West Sussex, BN17 5AG<br>Classification: Cleaning Services - Domestic<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                             | A7NE (SW)                              | 496                          | -       | 502940 102114 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Paul Ryan Uk Ltd<br>Location: Lloyds Bank Chambers, 90 High Street, Littlehampton, West Sussex, BN17 5AG<br>Classification: French Polishing<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                             | A7NE (SW)                              | 515                          | -       | 502940 102093 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Gunthart & Co Ltd<br>Location: 86 High St, Littlehampton, West Sussex, BN17 5DX<br>Classification: Confectionery Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location                                    | A7NE (SW)                              | 541                          | -       | 502900 102086 |

| Map ID | Details                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Beach Road Dry Cleaners<br>Location: 4, Beach Road, Littlehampton, West Sussex, BN17 5HT<br>Classification: Dry Cleaners<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                  | A7NE (SW)                              | 543                          | -       | 502919 102073 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Hygiene Express<br>Location: 9-11, Beach Road, Littlehampton, West Sussex, BN17 5HZ<br>Classification: Cleaning Materials & Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                   | A7NE (SW)                              | 546                          | -       | 502956 102051 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Coastline Cleaning Co<br>Location: 9-11, Beach Road, Littlehampton, West Sussex, BN17 5HZ<br>Classification: Cleaning Services - Commercial<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address             | A7NE (SW)                              | 546                          | -       | 502956 102051 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Hygiene Express<br>Location: 9-11, Beach Road, Littlehampton, West Sussex, BN17 5HZ<br>Classification: Cleaning Materials & Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                   | A7NE (SW)                              | 546                          | -       | 502956 102051 |
| 47     | <b>Contemporary Trade Directory Entries</b><br>Name: Electech Services<br>Location: 8 Ocean House 16-18 Beach rd, Littlehampton, West Sussex, BN17 5HT<br>Classification: Electrical Engineers<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the address or location          | A7NE (SW)                              | 573                          | -       | 502939 102029 |
| 48     | <b>Contemporary Trade Directory Entries</b><br>Name: Tyrrell Autos<br>Location: Rear Of 38 Arundel Rd, Littlehampton, West Sussex, BN17 7DB<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location                        | A12SE (SW)                             | 493                          | -       | 502736 102334 |
| 49     | <b>Contemporary Trade Directory Entries</b><br>Name: Littlehampton Hospital<br>Location: Fitzalan Road, Littlehampton, West Sussex, BN17 5EU<br>Classification: Hospitals<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                    | A8NW (S)                               | 499                          | -       | 503162 102050 |
| 50     | <b>Contemporary Trade Directory Entries</b><br>Name: Lulus Designs & Services Ltd<br>Location: Unit 8, Anchor Springs, Littlehampton, West Sussex, BN17 6BP<br>Classification: Printers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                      | A7NE (SW)                              | 514                          | -       | 502819 102182 |
| 51     | <b>Contemporary Trade Directory Entries</b><br>Name: Interphones<br>Location: 67a, High Street, Littlehampton, West Sussex, BN17 5EJ<br>Classification: Mobile Phone Accessories and Car Kits<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location         | A7NE (SW)                              | 524                          | -       | 502884 102117 |
| 52     | <b>Contemporary Trade Directory Entries</b><br>Name: Home & Dry Cleaning Services<br>Location: Flat 5, 59, Arundel Road, Littlehampton, BN17 7BY<br>Classification: Commercial Cleaning Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address               | A12SE (W)                              | 526                          | -       | 502680 102384 |
| 53     | <b>Contemporary Trade Directory Entries</b><br>Name: P G Autos<br>Location: Merton Dr, Littlehampton, West Sussex, BN17 7DU<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location                        | A12SE (W)                              | 527                          | -       | 502644 102562 |
| 54     | <b>Contemporary Trade Directory Entries</b><br>Name: Littlehampton Tyre & Exhaust Centre<br>Location: St. Martins Barn, St. Martins Lane, Littlehampton, West Sussex, BN17 6BS<br>Classification: Tyre Dealers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A7NE (SW)                              | 530                          | -       | 502733 102263 |

| Map ID | Details                                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 55     | <b>Contemporary Trade Directory Entries</b><br>Name: S G Tank Insulation<br>Location: 6, Sussex Street, Wick, Littlehampton, West Sussex, BN17 6JD<br>Classification: Tank Cleaning & Repairing<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address          | A17SE (NW)                             | 543                          | -       | 502797 103020 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: Tyrrell Autos Ltd<br>Location: Church Approach, Littlehampton, West Sussex, BN17 5EH<br>Classification: Garage Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                               | A8NW (SW)                              | 553                          | -       | 503021 102020 |
| 56     | <b>Contemporary Trade Directory Entries</b><br>Name: City Contract Cleaning Ltd<br>Location: 41b, Beach Road, Littlehampton, West Sussex, BN17 5JA<br>Classification: Commercial Cleaning Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address         | A8NW (SW)                              | 587                          | -       | 502998 101990 |
| 57     | <b>Contemporary Trade Directory Entries</b><br>Name: Austins<br>Location: 68, Lansdowne Road, Wick, Littlehampton, West Sussex, BN17 6JG<br>Classification: Carpet, Curtain & Upholstery Cleaners<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address        | A17SE (NW)                             | 564                          | -       | 502869 103105 |
| 58     | <b>Contemporary Trade Directory Entries</b><br>Name: S & N Auto Services<br>Location: Rear Of 7 Clun Rd, Littlehampton, West Sussex, BN17 7DX<br>Classification: Garage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to an adjacent address or location          | A12SW (W)                              | 566                          | -       | 502604 102598 |
| 58     | <b>Contemporary Trade Directory Entries</b><br>Name: Hatches Garage<br>Location: Merton Drive, Littlehampton, West Sussex, BN17 7DU<br>Classification: Garage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                   | A12SW (W)                              | 590                          | -       | 502580 102567 |
| 59     | <b>Contemporary Trade Directory Entries</b><br>Name: Apex Gutter Clearing<br>Location: 27, Southfields Road, Littlehampton, West Sussex, BN17 6PA<br>Classification: Commercial Cleaning Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address        | A14SE (E)                              | 572                          | -       | 504002 102482 |
| 59     | <b>Contemporary Trade Directory Entries</b><br>Name: Apex Gutter & Window Cleaning<br>Location: 27, Southfields Road, Littlehampton, West Sussex, BN17 6PA<br>Classification: Commercial Cleaning Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address | A14SE (E)                              | 572                          | -       | 504002 102482 |
| 60     | <b>Contemporary Trade Directory Entries</b><br>Name: Klick<br>Location: 35, High Street, Littlehampton, West Sussex, BN17 5EG<br>Classification: Photographic Processors<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                 | A7NE (SW)                              | 582                          | -       | 502767 102139 |
| 60     | <b>Contemporary Trade Directory Entries</b><br>Name: Bunce'S Home Hardware<br>Location: 50, High Street, Littlehampton, West Sussex, BN17 5EA<br>Classification: Hardware<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                | A7NE (SW)                              | 591                          | -       | 502785 102109 |
| 60     | <b>Contemporary Trade Directory Entries</b><br>Name: Bunces Home Hardware<br>Location: 50, High Street, Littlehampton, BN17 5EA<br>Classification: Hardware<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                | A7NE (SW)                              | 591                          | -       | 502785 102109 |
| 61     | <b>Contemporary Trade Directory Entries</b><br>Name: Baxi Air Management Ltd<br>Location: 15, Timberleys, Littlehampton, West Sussex, BN17 6QA<br>Classification: Ventilators & Ventilation Systems<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address      | A14NW (NE)                             | 597                          | -       | 503959 102935 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 62     | <b>Contemporary Trade Directory Entries</b><br>Name: Solar Screen<br>Location: 80, Parkside Avenue, Littlehampton, West Sussex, BN17 6BJ<br>Classification: Window Tinting<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                       | A9NW (SE)                              | 598                          | -       | 503871 102166 |
| 63     | <b>Contemporary Trade Directory Entries</b><br>Name: B M W<br>Location: Beach Rd, Littlehampton, West Sussex, BN17 5JA<br>Classification: Garage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the road within the address or location                                                 | A8NW (SW)                              | 600                          | -       | 502983 101982 |
| 64     | <b>Contemporary Trade Directory Entries</b><br>Name: H D White<br>Location: 42, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JH<br>Classification: Scrap Metal Merchants<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the address or location                                          | A17SE (NW)                             | 601                          | -       | 502687 102977 |
| 64     | <b>Contemporary Trade Directory Entries</b><br>Name: Baker Press Ltd<br>Location: A, 30, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JH<br>Classification: Printers<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                     | A17SE (NW)                             | 615                          | -       | 502659 102960 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: The Car Surgery Littlehampton Ltd<br>Location: 9, North Street, Wick, Littlehampton, West Sussex, BN17 6JJ<br>Classification: Garage Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                 | A17SE (NW)                             | 608                          | -       | 502758 103072 |
| 65     | <b>Contemporary Trade Directory Entries</b><br>Name: Arun Laundry<br>Location: 11, North Street, Wick, Littlehampton, West Sussex, BN17 6JJ<br>Classification: Laundries & Launderettes<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                          | A17SE (NW)                             | 611                          | -       | 502772 103090 |
| 66     | <b>Contemporary Trade Directory Entries</b><br>Name: Dairy Crest<br>Location: Wick Farm, Arundel Road, Littlehampton, West Sussex, BN17 7DH<br>Classification: Dairies<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                           | A12NW (W)                              | 630                          | -       | 502589 102852 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: Make It Snappy<br>Location: 11, High Street, Littlehampton, West Sussex, BN17 5EG<br>Classification: Photographic Processors<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                | A7NE (SW)                              | 630                          | -       | 502699 102143 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: Rainbow International<br>Location: 1-3, High Street, Littlehampton, West Sussex, BN17 5EG<br>Classification: Carpet, Curtain & Upholstery Cleaners<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                          | A7NE (SW)                              | 644                          | -       | 502680 102142 |
| 67     | <b>Contemporary Trade Directory Entries</b><br>Name: A Langley<br>Location: Office B, 20a, High Street, LITTLEHAMPTON, West Sussex, BN17 5EE<br>Classification: Concrete Contractors<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                             | A7NE (SW)                              | 665                          | -       | 502675 102116 |
| 68     | <b>Contemporary Trade Directory Entries</b><br>Name: T H A Plumbing, Heating & Electrical<br>Location: 44, Gloucester Place, LITTLEHAMPTON, West Sussex, BN17 7AL<br>Classification: Boilers - Servicing, Replacements & Repairs<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A12SW (W)                              | 634                          | -       | 502569 102380 |
| 69     | <b>Contemporary Trade Directory Entries</b><br>Name: Rentafilm<br>Location: 9, Arundel Road, Littlehampton, West Sussex, BN17 7BY<br>Classification: Digital Printing<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                            | A7NE (SW)                              | 643                          | -       | 502634 102209 |

| Map ID | Details                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 70     | <b>Contemporary Trade Directory Entries</b><br>Name: Walsh Pest Control<br>Location: 47, Carvel Way, Littlehampton, BN17 6RJ<br>Classification: Pest & Vermin Control<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                       | A14SE (E)                              | 670                          | -       | 504108 102602 |
| 70     | <b>Contemporary Trade Directory Entries</b><br>Name: Walsh Pest Control<br>Location: 47, Carvel Way, Littlehampton, West Sussex, BN17 6RJ<br>Classification: Pest & Vermin Control<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                        | A14SE (E)                              | 670                          | -       | 504108 102602 |
| 70     | <b>Contemporary Trade Directory Entries</b><br>Name: Jeff King<br>Location: 34, Beacon Way, Littlehampton, West Sussex, BN17 6QS<br>Classification: Washing Machines - Servicing & Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                | A14SE (E)                              | 710                          | -       | 504149 102579 |
| 71     | <b>Contemporary Trade Directory Entries</b><br>Name: Wynn Engineering<br>Location: Surrey St, Littlehampton, West Sussex, BN17 5BG<br>Classification: Precision Engineers<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned within the geographical locality                    | A7NE (SW)                              | 670                          | -       | 502695 102087 |
| 72     | <b>Contemporary Trade Directory Entries</b><br>Name: Hammond<br>Location: 97, Wick Farm Road, Wick, LITTLEHAMPTON, West Sussex, BN17 7HJ<br>Classification: Boilers - Servicing, Replacements & Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address   | A12NW (W)                              | 674                          | -       | 502532 102825 |
| 73     | <b>Contemporary Trade Directory Entries</b><br>Name: South Coast Minis<br>Location: Whitelea Rd, Wick, Littlehampton, West Sussex, BN17 7JL<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location     | A12NW (NW)                             | 677                          | -       | 502580 102948 |
| 73     | <b>Contemporary Trade Directory Entries</b><br>Name: Scutt & Underwood<br>Location: 9a, Whitelea Road, Wick, Littlehampton, West Sussex, BN17 7JL<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                      | A17SW (NW)                             | 702                          | -       | 502575 102989 |
| 73     | <b>Contemporary Trade Directory Entries</b><br>Name: J Ds<br>Location: 14, West Way, Wick, Littlehampton, West Sussex, BN17 7LY<br>Classification: Car Breakdown & Recovery Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                      | A17SW (NW)                             | 728                          | -       | 502560 103015 |
| 74     | <b>Contemporary Trade Directory Entries</b><br>Name: Straight<br>Location: Flat 1, Progress House, 1, Arundel Road, Littlehampton, West Sussex, BN17 7BA<br>Classification: Ironing & Home Laundry Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A7NW (SW)                              | 689                          | -       | 502623 102144 |
| 75     | <b>Contemporary Trade Directory Entries</b><br>Name: Lab Kinetics Ltd<br>Location: 52, East Ham Road, Littlehampton, West Sussex, BN17 7BE<br>Classification: Laboratory Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                        | A12SW (W)                              | 698                          | -       | 502483 102470 |
| 76     | <b>Contemporary Trade Directory Entries</b><br>Name: I P L D<br>Location: 1, Harwood Road, Littlehampton, BN17 7AT<br>Classification: Plastic Products - Manufacturers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                    | A12SW (W)                              | 699                          | -       | 502474 102530 |

| Map ID | Details                                                                                                                                                                                                                                                                                              | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 76     | <b>Contemporary Trade Directory Entries</b><br>Name: Sussex Eco Solutions<br>Location: Enterprise Harwood Road, Littlehampton, West Sussex, BN17 7AT<br>Classification: Woodburning Stoves<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the address or location           | A12SW (W)                              | 699                          | -       | 502474 102530 |
| 77     | <b>Contemporary Trade Directory Entries</b><br>Name: Stuart Lyons<br>Location: Windross, Worthing Road, Wick, Littlehampton, West Sussex, BN17 6LY<br>Classification: Road Haulage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address               | A18NE (N)                              | 717                          | -       | 503578 103376 |
| 78     | <b>Contemporary Trade Directory Entries</b><br>Name: Rassilon Replicas<br>Location: 90, Timberleys, Littlehampton, BN17 6QE<br>Classification: Tool Design, Manufacturers & Makers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                          | A19SE (NE)                             | 720                          | -       | 503985 103124 |
| 79     | <b>Contemporary Trade Directory Entries</b><br>Name: Chemical Express<br>Location: 35, Leeward Road, Littlehampton, West Sussex, BN17 6PQ<br>Classification: Cleaning Materials & Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address               | A9NE (SE)                              | 738                          | -       | 504049 102164 |
| 80     | <b>Contemporary Trade Directory Entries</b><br>Name: Ortronics<br>Location: 22, Roman Acre, Wick, Littlehampton, West Sussex, BN17 7HN<br>Classification: Electronic Engineers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                            | A12NW (W)                              | 743                          | -       | 502444 102760 |
| 81     | <b>Contemporary Trade Directory Entries</b><br>Name: Arun Tyre & Exhaust<br>Location: 4, Terminus Road, Littlehampton, BN17 5BS<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                          | A7NW (SW)                              | 746                          | -       | 502580 102106 |
| 81     | <b>Contemporary Trade Directory Entries</b><br>Name: Porter Coachwork Co<br>Location: The Old Railway Goods Yard, Terminus Road, Littlehampton, West Sussex, BN17 5BS<br>Classification: Car Body Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A7NW (SW)                              | 764                          | -       | 502541 102130 |
| 82     | <b>Contemporary Trade Directory Entries</b><br>Name: K Lansdowne<br>Location: 47, Maxwell Road, Littlehampton, West Sussex, BN17 7BW<br>Classification: Boilers - Servicing, Replacements & Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address       | A12SW (W)                              | 749                          | -       | 502479 102285 |
| 83     | <b>Contemporary Trade Directory Entries</b><br>Name: Wick Launuderette<br>Location: 93, Wick Street, Wick, Littlehampton, BN17 7JN<br>Classification: Dry Cleaners<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                          | A17SE (NW)                             | 756                          | -       | 502636 103160 |
| 83     | <b>Contemporary Trade Directory Entries</b><br>Name: Wick Launuderette<br>Location: 93, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JN<br>Classification: Laundries & Launderettes<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address               | A17SE (NW)                             | 756                          | -       | 502636 103160 |
| 83     | <b>Contemporary Trade Directory Entries</b><br>Name: Littlehampton Blinds<br>Location: 5-6 True Blue Precinct, Wick Street, Wick, Littlehampton, BN17 7JN<br>Classification: Blinds, Awnings & Canopies<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address     | A17SW (NW)                             | 760                          | -       | 502612 103139 |



| Map ID | Details                                                                                                                                                                                                                                                                                                                          | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 84     | <b>Contemporary Trade Directory Entries</b><br>Name: Flashings & Fabrications Services Ltd<br>Location: Units 1-2-4 Harwood Centre, Harwood Road, Littlehampton, West Sussex, BN17 7AT<br>Classification: Sheet Metal Work<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned within the geographical locality | A12SW (W)                              | 757                          | -       | 502413 102580 |
| 85     | <b>Contemporary Trade Directory Entries</b><br>Name: R W P Group - Your Marketing Services Partner<br>Location: 108, Wick Street, Wick, Littlehampton, BN17 7JS<br>Classification: Printers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                             | A17SE (NW)                             | 762                          | -       | 502679 103208 |
| 85     | <b>Contemporary Trade Directory Entries</b><br>Name: R W P<br>Location: 108, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JS<br>Classification: Printers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                                      | A17SE (NW)                             | 762                          | -       | 502679 103208 |
| 86     | <b>Contemporary Trade Directory Entries</b><br>Name: Gray Computer Services Ltd<br>Location: 67, Norfolk Road, Littlehampton, West Sussex, BN17 5HE<br>Classification: Heat Exchangers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                | A8SE (S)                               | 769                          | -       | 503592 101826 |
| 87     | <b>Contemporary Trade Directory Entries</b><br>Name: Shell Select<br>Location: Service Station, Worthing Road, Wick, Littlehampton, BN17 6LE<br>Classification: Petrol Filling Stations<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                 | A19NW (NE)                             | 772                          | -       | 503836 103328 |
| 87     | <b>Contemporary Trade Directory Entries</b><br>Name: Shell East Field<br>Location: Service Station, Worthing Road, Wick, Littlehampton, West Sussex, BN17 6LE<br>Classification: Petrol Filling Stations<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                              | A19NW (NE)                             | 773                          | -       | 503836 103328 |
| 87     | <b>Contemporary Trade Directory Entries</b><br>Name: Shell Service Station Ltd<br>Location: Service Station, Worthing Road, Wick, Littlehampton, West Sussex, BN17 6LE<br>Classification: Petrol Filling Stations - 24 Hour<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address           | A19NW (NE)                             | 773                          | -       | 503836 103328 |
| 88     | <b>Contemporary Trade Directory Entries</b><br>Name: Chauffer Services Ltd<br>Location: 7, Toddington Park, Wick, Littlehampton, West Sussex, BN17 6JZ<br>Classification: Car Engine Tuning & Diagnostic Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                     | A18NW (N)                              | 773                          | -       | 503166 103427 |
| 89     | <b>Contemporary Trade Directory Entries</b><br>Name: Travis Perkins Plc<br>Location: Pier Road, Littlehampton, West Sussex, BN17 5BB<br>Classification: Builders' Merchants<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                                             | A7SE (SW)                              | 773                          | -       | 502743 101911 |
| 89     | <b>Contemporary Trade Directory Entries</b><br>Name: Amstel Cycles<br>Location: 47, Pier Road, Littlehampton, West Sussex, BN17 5LW<br>Classification: Cycle Accessories, Manufacturers & Wholesalers<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the address or location                          | A7SE (SW)                              | 781                          | -       | 502777 101879 |
| 90     | <b>Contemporary Trade Directory Entries</b><br>Name: Sparkle Cleaners<br>Location: 118, Timberleys, Littlehampton, West Sussex, BN17 6QF<br>Classification: Cleaning Services - Domestic<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                              | A19SE (NE)                             | 783                          | -       | 504034 103164 |

| Map ID | Details                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 91     | <b>Contemporary Trade Directory Entries</b><br>Name: Bluelight Distributions<br>Location: 8, Lansdowne Road, Wick, Littlehampton, West Sussex, BN17 6JQ<br>Classification: Distribution Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                        | A17NE (NW)                             | 787                          | -       | 502919 103385 |
| 92     | <b>Contemporary Trade Directory Entries</b><br>Name: Noble Autos<br>Location: Enterprise Unit, 2, Harwood Road, LITTLEHAMPTON, West Sussex, BN17 7AT<br>Classification: Car Body Repairs<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                  | A12SW (W)                              | 814                          | -       | 502356 102595 |
| 93     | <b>Contemporary Trade Directory Entries</b><br>Name: Pensa Engineering Services<br>Location: 23, Windward Close, Littlehampton, West Sussex, BN17 6QX<br>Classification: Refrigerators & Freezers - Servicing & Repairs<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A14SE (E)                              | 829                          | -       | 504256 102442 |
| 93     | <b>Contemporary Trade Directory Entries</b><br>Name: C M D Recovery<br>Location: 39, Windward Close, Littlehampton, West Sussex, BN17 6QX<br>Classification: Car Breakdown & Recovery Services<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                            | A14SE (E)                              | 872                          | -       | 504299 102440 |
| 94     | <b>Contemporary Trade Directory Entries</b><br>Name: A M S<br>Location: 25, River Road, Littlehampton, West Sussex, BN17 5BZ<br>Classification: Garage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                         | A7NW (SW)                              | 831                          | -       | 502490 102086 |
| 95     | <b>Contemporary Trade Directory Entries</b><br>Name: Frank Clarke<br>Location: Worthing Rd, Wick, Littlehampton, West Sussex, BN17 6JR<br>Classification: Cabinet Makers<br><b>Status:</b> Inactive<br>Positional Accuracy: Manually positioned to the road within the address or location                         | A17NE (NW)                             | 839                          | -       | 502865 103418 |
| 96     | <b>Contemporary Trade Directory Entries</b><br>Name: Grip & Tip Services<br>Location: 27, The Blatchen, Littlehampton, West Sussex, BN17 5HF<br>Classification: Waste Disposal Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                 | A9SW (SE)                              | 840                          | -       | 503798 101820 |
| 96     | <b>Contemporary Trade Directory Entries</b><br>Name: Grip & Tip Services<br>Location: 27, The Blatchen, Littlehampton, West Sussex, BN17 5HF<br>Classification: Waste Disposal Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                 | A9SW (SE)                              | 840                          | -       | 503798 101820 |
| 97     | <b>Contemporary Trade Directory Entries</b><br>Name: Cosi Ltd<br>Location: Watersmead Business Park, Littlehampton, West Sussex, BN17 6LS<br>Classification: Toiletries<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                 | A19NW (NE)                             | 849                          | -       | 503799 103437 |
| 98     | <b>Contemporary Trade Directory Entries</b><br>Name: Jpa<br>Location: 20, The Cape, Littlehampton, West Sussex, BN17 6PL<br>Classification: Cleaning Services - Domestic<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                                                | A9NE (E)                               | 855                          | -       | 504223 102238 |
| 99     | <b>Contemporary Trade Directory Entries</b><br>Name: Shanks Printers & Finishers<br>Location: 10, Selwyn Avenue, Wick, Littlehampton, BN17 7NF<br>Classification: Printers<br><b>Status:</b> Active<br>Positional Accuracy: Automatically positioned to the address                                                | A17SW (NW)                             | 859                          | -       | 502536 103203 |

| Map ID | Details                                                                                                                                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
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| 100    | <b>Contemporary Trade Directory Entries</b><br>Name: Oven Solutions<br>Location: 40, The Faroes, Littlehampton, West Sussex, BN17 6SB<br>Classification: Oven cleaning<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                         | A19SE (NE)                             | 860                          | -       | 504148<br>103136 |
| 101    | <b>Contemporary Trade Directory Entries</b><br>Name: C M Wood<br>Location: Linden Park, Littlehampton, West Sussex, BN17 7BJ<br>Classification: Car Body Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                               | A12SW (W)                              | 861                          | -       | 502332<br>102389 |
| 101    | <b>Contemporary Trade Directory Entries</b><br>Name: Complete Automobile Repair Services<br>Location: Unit 6, Gloucester Road, Littlehampton, West Sussex, BN17 7BS<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address           | A12SW (W)                              | 890                          | -       | 502302<br>102388 |
| 101    | <b>Contemporary Trade Directory Entries</b><br>Name: R W Catering Services Ltd<br>Location: Unit 3-5, Gloucester Road, Littlehampton, West Sussex, BN17 7BS<br>Classification: Catering Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address              | A12SW (W)                              | 890                          | -       | 502302<br>102388 |
| 102    | <b>Contemporary Trade Directory Entries</b><br>Name: Sts Communication Ltd<br>Location: 143, Wick Street, Wick, Littlehampton, West Sussex, BN17 7JY<br>Classification: Telecommunications Equipment & Systems<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A17NE (NW)                             | 863                          | -       | 502651<br>103316 |
| 103    | <b>Contemporary Trade Directory Entries</b><br>Name: Biffa Municipal<br>Location: Harwood Road, Littlehampton, BN17 7AU<br>Classification: Waste Disposal Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                               | A12SW (W)                              | 863                          | -       | 502307<br>102611 |
| 104    | <b>Contemporary Trade Directory Entries</b><br>Name: Fuse Logistics<br>Location: Pier Road, Littlehampton, West Sussex, BN17 5LR<br>Classification: Road Haulage Services<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the road within the address or location                 | A7SE (SW)                              | 871                          | -       | 502754<br>101789 |
| 104    | <b>Contemporary Trade Directory Entries</b><br>Name: Harbour Master Office<br>Location: Harbour Office, Pier Road, Littlehampton, West Sussex, BN17 5LR<br>Classification: Ports, Docks & Harbours<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address             | A7SE (SW)                              | 903                          | -       | 502729<br>101766 |
| 104    | <b>Contemporary Trade Directory Entries</b><br>Name: Littlehampton Harbour<br>Location: Harbour Office, Pier Road, LITTLEHAMPTON, West Sussex, BN17 5LR<br>Classification: Ports, Docks & Harbours<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address               | A7SE (SW)                              | 909                          | -       | 502733<br>101757 |
| 105    | <b>Contemporary Trade Directory Entries</b><br>Name: Crystal Clear<br>Location: 26, Norfolk Gardens, Littlehampton, West Sussex, BN17 5PE<br>Classification: Cleaning Materials & Equipment<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                    | A9SW (SE)                              | 876                          | -       | 503681<br>101737 |
| 106    | <b>Contemporary Trade Directory Entries</b><br>Name: Express Transport<br>Location: 45, Olliver Acre, Wick, Littlehampton, West Sussex, BN17 6FD<br>Classification: Road Haulage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                      | A18NE (N)                              | 879                          | -       | 503552<br>103546 |
| 107    | <b>Contemporary Trade Directory Entries</b><br>Name: The Service Centre<br>Location: 6, The Saltings, Littlehampton, West Sussex, BN17 6RR<br>Classification: Domestic Appliances - Servicing, Repairs & Parts<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A14NE (E)                              | 890                          | -       | 504283<br>102898 |

| Map ID | Details                                                                                                                                                                                                                                                                                         | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 108    | <b>Contemporary Trade Directory Entries</b><br>Name: Lynx Finishers Ltd<br>Location: Gloucester Road, Littlehampton, West Sussex, BN17 7BS<br>Classification: Powder Coatings<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                        | A12SW (W)                              | 895                          | -       | 502311 102332 |
| 108    | <b>Contemporary Trade Directory Entries</b><br>Name: Formet Fabrications Ltd<br>Location: Gloucester Road, Littlehampton, West Sussex, BN17 7BS<br>Classification: Sheet Metal Work<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                  | A12SW (W)                              | 895                          | -       | 502311 102332 |
| 108    | <b>Contemporary Trade Directory Entries</b><br>Name: First Call Trading Ltd<br>Location: Gloucester Road, Littlehampton, West Sussex, BN17 7BS<br>Classification: Salvage Dealers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                    | A12SW (W)                              | 895                          | -       | 502311 102332 |
| 108    | <b>Contemporary Trade Directory Entries</b><br>Name: Becket Recovery Services Ltd<br>Location: Unit 7a, Gloucester Road, Littlehampton, BN17 7BS<br>Classification: Breakdown and Recovery<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address           | A12SW (W)                              | 903                          | -       | 502296 102362 |
| 108    | <b>Contemporary Trade Directory Entries</b><br>Name: C A R S<br>Location: Unit 6, Gloucester Road, Littlehampton, West Sussex, BN17 7BS<br>Classification: Mot Testing Centres<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the road within the address or location  | A12SW (W)                              | 904                          | -       | 502309 102306 |
| 109    | <b>Contemporary Trade Directory Entries</b><br>Name: Inpress Plastics Ltd<br>Location: Unit 1, Harwood Road, Littlehampton, West Sussex, BN17 7AU<br>Classification: Plastics - Injection Moulding<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address     | A11SE (W)                              | 896                          | -       | 502274 102553 |
| 109    | <b>Contemporary Trade Directory Entries</b><br>Name: Noble Autos<br>Location: Unit 1,2, Harwood Rd, Littlehampton, West Sussex, BN17 7AU<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Manually positioned to the road within the address or location   | A11SE (W)                              | 934                          | -       | 502236 102562 |
| 110    | <b>Contemporary Trade Directory Entries</b><br>Name: A S W Print & Promo<br>Location: 5, Watersmead Drive, Littlehampton, BN17 6GH<br>Classification: Printers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                         | A19NE (NE)                             | 897                          | -       | 504076 103289 |
| 111    | <b>Contemporary Trade Directory Entries</b><br>Name: Kleen Zone<br>Location: 44, Trinity Way, Littlehampton, West Sussex, BN17 5SS<br>Classification: Cleaning Services - Domestic<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                   | A9SW (SE)                              | 898                          | -       | 503768 101744 |
| 112    | <b>Contemporary Trade Directory Entries</b><br>Name: Maxicause Ltd<br>Location: 21, Toddington Park, Wick, Littlehampton, BN17 6JZ<br>Classification: Heat Exchangers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                | A18NW (N)                              | 904                          | -       | 503130 103554 |
| 113    | <b>Contemporary Trade Directory Entries</b><br>Name: Cushy Motors<br>Location: 1, Victoria Gardens, Clifton Road, Littlehampton, BN17 5LU<br>Classification: Car Dealers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                             | A7SE (SW)                              | 922                          | -       | 502790 101713 |
| 114    | <b>Contemporary Trade Directory Entries</b><br>Name: Engine Management Services<br>Location: Unit 1, Wickham Business Centre, Harwood Road, Littlehampton, BN17 7AU<br>Classification: Garage Services<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address | A11SE (W)                              | 927                          | -       | 502243 102592 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                 | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
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| 114    | <b>Contemporary Trade Directory Entries</b><br>Name: Engine Management Services<br>Location: Unit 1, Wickham Business Centre, Harwood Road, Littlehampton, West Sussex, BN17 7AU<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address          | A11SE (W)                              | 927                          | -       | 502243 102592 |
| 114    | <b>Contemporary Trade Directory Entries</b><br>Name: J & N Joinery<br>Location: Unit 16, Wickham Business Centre, Harwood Road, Littlehampton, West Sussex, BN17 7AU<br>Classification: Cabinet Makers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                         | A11SE (W)                              | 964                          | -       | 502206 102577 |
| 114    | <b>Contemporary Trade Directory Entries</b><br>Name: Rokk Building Products Ltd<br>Location: Unit 4, Wickham Business Centre, Harwood Road, Littlehampton, West Sussex, BN17 7AU<br>Classification: Builders' Merchants<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the address or location | A11SE (W)                              | 964                          | -       | 502206 102577 |
| 114    | <b>Contemporary Trade Directory Entries</b><br>Name: Rk Direct<br>Location: Unit 4, Wickham Business Centre, Harwood Road, Littlehampton, West Sussex, BN17 7AU<br>Classification: Builders' Merchants<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                       | A11SE (W)                              | 964                          | -       | 502206 102577 |
| 115    | <b>Contemporary Trade Directory Entries</b><br>Name: Oven Miracle Cleaning Co<br>Location: 11, Gratwicke Drive, Wick, Littlehampton, West Sussex, BN17 6GU<br>Classification: Oven cleaning<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                    | A18NE (N)                              | 931                          | -       | 503581 103593 |
| 115    | <b>Contemporary Trade Directory Entries</b><br>Name: Ironing R Us<br>Location: 11, Gratwicke Drive, Wick, Littlehampton, BN17 6GU<br>Classification: Ironing & Home Laundry Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                         | A18NE (N)                              | 931                          | -       | 503581 103593 |
| 116    | <b>Contemporary Trade Directory Entries</b><br>Name: Complete Automobile Repair Services<br>Location: 47, River Road, Littlehampton, West Sussex, BN17 5BZ<br>Classification: Garage Services<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                | A7NW (SW)                              | 933                          | -       | 502334 102156 |
| 116    | <b>Contemporary Trade Directory Entries</b><br>Name: Riverside Autos<br>Location: 47, River Road, Littlehampton, West Sussex, BN17 5BZ<br>Classification: Car Body Repairs<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                   | A7NW (SW)                              | 933                          | -       | 502334 102156 |
| 116    | <b>Contemporary Trade Directory Entries</b><br>Name: Riverside Autos<br>Location: 57 River Road, Littlehampton, West Sussex, BN17 5BZ<br>Classification: Car Body Repairs<br><b>Status: Active</b><br>Positional Accuracy: Manually positioned to the address or location                                               | A7NW (SW)                              | 933                          | -       | 502334 102156 |
| 117    | <b>Contemporary Trade Directory Entries</b><br>Name: Uk 24-7 Repair & Recovery<br>Location: 4, Ensign Way, Littlehampton, West Sussex, BN17 6RQ<br>Classification: Breakdown and Recovery<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                    | A15SW (E)                              | 941                          | -       | 504379 102587 |
| 118    | <b>Contemporary Trade Directory Entries</b><br>Name: Bill Dodd Computer Systems Ltd<br>Location: 16b Norfolk Road, Littlehampton, West Sussex, BN17 5PN<br>Classification: Computer Manufacturers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                              | A8SE (S)                               | 958                          | -       | 503535 101626 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                     | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 119    | <b>Contemporary Trade Directory Entries</b><br>Name: Domestic Bliss<br>Location: 44, Capstan Drive, LITTLEHAMPTON, West Sussex, BN17 6RW<br>Classification: Cleaning Services - Domestic<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                         | A19SE (NE)                             | 962                          | -       | 504289 103092 |
| 119    | <b>Contemporary Trade Directory Entries</b><br>Name: Housekeepers Of Rustington<br>Location: 6, Pebble Walk, Littlehampton, West Sussex, BN17 6TE<br>Classification: Cleaning Services - Domestic<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                | A19SE (NE)                             | 992                          | -       | 504310 103117 |
| 120    | <b>Contemporary Trade Directory Entries</b><br>Name: Framework Accounting Solutions Ltd<br>Location: 23, Western Road, Littlehampton, West Sussex, BN17 5NP<br>Classification: Metal Workers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                                       | A8SE (S)                               | 967                          | -       | 503429 101605 |
| 121    | <b>Contemporary Trade Directory Entries</b><br>Name: 1st Call Commercial Cleaning<br>Location: 27, Buttermere Way, Littlehampton, West Sussex, BN17 6SX<br>Classification: Cleaning Services - Commercial<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                        | A20SW (E)                              | 967                          | -       | 504334 102996 |
| 121    | <b>Contemporary Trade Directory Entries</b><br>Name: D D P<br>Location: 12, Buttermere Way, Littlehampton, West Sussex, BN17 6SX<br>Classification: Scaffolding & Work Platforms<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                                 | A20SW (E)                              | 980                          | -       | 504340 103017 |
| 121    | <b>Contemporary Trade Directory Entries</b><br>Name: Andy Hooper<br>Location: 10, Buttermere Way, Littlehampton, West Sussex, BN17 6SX<br>Classification: Outboard Motors - Sales & Service<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address                                      | A20SW (E)                              | 984                          | -       | 504341 103026 |
| 122    | <b>Contemporary Trade Directory Entries</b><br>Name: Packaging Etc<br>Location: Harwood House, Harwood Road, Littlehampton, BN17 7AU<br>Classification: Packaging Materials Manufacturers & Suppliers<br><b>Status: Active</b><br>Positional Accuracy: Automatically positioned to the address                              | A11SE (W)                              | 988                          | -       | 502185 102517 |
| 122    | <b>Contemporary Trade Directory Entries</b><br>Name: Design Packaging<br>Location: Harwood House, Harwood Road, Littlehampton, West Sussex, BN17 7AU<br>Classification: Packaging Materials Manufacturers & Suppliers<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address            | A11SE (W)                              | 988                          | -       | 502185 102517 |
| 123    | <b>Contemporary Trade Directory Entries</b><br>Name: Mander Pools Ltd<br>Location: 32, Courtwick Road, Wick, Littlehampton, West Sussex, BN17 7NH<br>Classification: Swimming Pool Contractors, Repairers & Service<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address              | A17SW (NW)                             | 993                          | -       | 502419 103273 |
| 124    | <b>Contemporary Trade Directory Entries</b><br>Name: Dando Drilling International Ltd<br>Location: Old Customs House, Wharf Road, Littlehampton, West Sussex, BN17 5DD<br>Classification: Drilling & Boring Equipment & Supplies<br><b>Status: Inactive</b><br>Positional Accuracy: Automatically positioned to the address | A6NE (W)                               | 995                          | -       | 502225 102270 |
| 125    | <b>Fuel Station Entries</b><br>Name: Cuff Miller<br>Location: Horsham Road Southfields Road, , Littlehampton, West Sussex, BN17 6BX<br>Brand: Esso<br>Premises Type: Petrol Station<br><b>Status: Open</b><br>Positional Accuracy: Automatically positioned to the address                                                  | A13SE (SE)                             | 224                          | -       | 503627 102459 |

| Map ID | Details                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 126    | <b>Fuel Station Entries</b><br>Name: Yeomans Garage<br>Location: 52-54, Horsham Road , , Littlehampton, West Sussex, BN17 6DN<br>Brand: Obsolete<br>Premises Type: Not Applicable<br><b>Status: Obsolete</b><br>Positional Accuracy: Manually positioned to the address or location | A14NW (E)                              | 340                          | -       | 503756<br>102738 |
| 127    | <b>Fuel Station Entries</b><br>Name: Shell Eastfield<br>Location: Rustington Bypass Worthing Road, , Littlehampton, West Sussex, BN17 6LE<br>Brand: SHELL<br>Premises Type: Petrol Station<br><b>Status: Open</b><br>Positional Accuracy: Automatically positioned to the address   | A19NW (NE)                             | 773                          | -       | 503836<br>103328 |



| Map ID | Details                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
| 128    | <b>Nitrate Vulnerable Zones</b><br>Name: Sussex Chalk<br>Description: Groundwater<br>Source: Environment Agency, Head Office | A19NW (NE)                             | 721                          | 4       | 503650<br>103360 |

| Agency & Hydrological                                                                                                                                                                                                                         | Version                                          | Update Cycle                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|
| <b>Contaminated Land Register Entries and Notices</b><br>Arun District Council - Environmental Health Department<br>Worthing Borough Council - Environmental Health Department<br>Environment Agency - Head Office                            | December 2019<br>December 2019<br>September 2019 | Annual Rolling Update<br>Annual Rolling Update<br>Annually |
| <b>Discharge Consents</b><br>Environment Agency - Southern Region                                                                                                                                                                             | April 2020                                       | Quarterly                                                  |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - Southern Region                                                                                                                                                            | March 2013                                       | Annual Rolling Update                                      |
| <b>Integrated Pollution Controls</b><br>Environment Agency - Southern Region                                                                                                                                                                  | October 2008                                     | Variable                                                   |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - South East Region - Solent & South Downs Area<br>Environment Agency - Southern Region                                                                              | April 2020<br>April 2020                         | Quarterly<br>Quarterly                                     |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Arun District Council - Environmental Health Department<br>Worthing Borough Council - Environmental Health Department                                                   | December 2014<br>March 2013                      | Variable<br>Variable                                       |
| <b>Local Authority Pollution Prevention and Controls</b><br>Arun District Council - Environmental Health Department<br>Worthing Borough Council - Environmental Health Department                                                             | December 2014<br>November 2014                   | Not Applicable<br>Annual Rolling Update                    |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Arun District Council - Environmental Health Department<br>Worthing Borough Council - Environmental Health Department                                                 | December 2014<br>November 2014                   | Variable<br>Variable                                       |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey                                                                                                                                                                                       | April 2020                                       |                                                            |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Southern Region                                                                                                                                                       | December 1999                                    | Not Applicable                                             |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - Southern Region                                                                                                                                                  | March 2013                                       | Annual Rolling Update                                      |
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - Southern Region                                                                                                                                                     | March 2013                                       | Annual Rolling Update                                      |
| <b>Registered Radioactive Substances</b><br>Environment Agency - Southern Region                                                                                                                                                              | June 2016                                        |                                                            |
| <b>River Quality</b><br>Environment Agency - Head Office                                                                                                                                                                                      | November 2001                                    | Not Applicable                                             |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                              | July 2012                                        | Annually                                                   |
| <b>River Quality Chemistry Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                            | July 2012                                        | Annually                                                   |
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency - South East Region - Solent & South Downs Area<br>Environment Agency - Southern Region - Solent and South Downs<br>Environment Agency - Southern Region - Sussex Area | April 2020<br>April 2020<br>April 2020           | Quarterly<br>Quarterly<br>Quarterly                        |
| <b>Water Abstractions</b><br>Environment Agency - Southern Region                                                                                                                                                                             | April 2020                                       | Quarterly                                                  |
| <b>Water Industry Act Referrals</b><br>Environment Agency - Southern Region                                                                                                                                                                   | October 2017                                     | Quarterly                                                  |
| <b>Groundwater Vulnerability Map</b><br>Environment Agency - Head Office                                                                                                                                                                      | June 2018                                        | As notified                                                |
| <b>Groundwater Vulnerability - Soluble Rock Risk</b><br>Environment Agency - Head Office                                                                                                                                                      | June 2018                                        | As notified                                                |

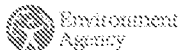
| Agency & Hydrological                                                                                                 | Version       | Update Cycle |
|-----------------------------------------------------------------------------------------------------------------------|---------------|--------------|
| <b>Bedrock Aquifer Designations</b><br>Environment Agency - Head Office                                               | January 2018  | Annually     |
| <b>Superficial Aquifer Designations</b><br>Environment Agency - Head Office                                           | January 2018  | Annually     |
| <b>Source Protection Zones</b><br>Environment Agency - Head Office                                                    | October 2019  | Quarterly    |
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                       | February 2020 | Quarterly    |
| <b>Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                               | February 2020 | Quarterly    |
| <b>Areas Benefiting from Flood Defences</b><br>Environment Agency - Head Office                                       | February 2020 | Quarterly    |
| <b>Flood Water Storage Areas</b><br>Environment Agency - Head Office                                                  | February 2020 | Quarterly    |
| <b>Flood Defences</b><br>Environment Agency - Head Office                                                             | February 2020 | Quarterly    |
| <b>OS Water Network Lines</b><br>Ordnance Survey                                                                      | March 2020    | Quarterly    |
| <b>BGS Groundwater Flooding Susceptibility</b><br>British Geological Survey - National Geoscience Information Service | May 2013      | Annually     |

| Waste                                                                                                                                                                                                                                                          | Version                                         | Update Cycle                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------|
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                      | June 1996                                       | Not Applicable                                     |
| <b>Historical Landfill Sites</b><br>Environment Agency - Head Office                                                                                                                                                                                           | October 2019                                    | Quarterly                                          |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - Southern Region                                                                                                                                                             | October 2008                                    | Not Applicable                                     |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency - South East Region - Solent & South Downs Area<br>Environment Agency - Southern Region - Solent and South Downs<br>Environment Agency - Southern Region - Sussex Area | November 2019<br>November 2019<br>November 2019 | Quarterly<br>Quarterly<br>Quarterly                |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Environment Agency - South East Region - Solent & South Downs Area<br>Environment Agency - Southern Region - Solent and South Downs<br>Environment Agency - Southern Region - Sussex Area           | April 2020<br>April 2020<br>April 2020          | Quarterly<br>Quarterly<br>Quarterly                |
| <b>Local Authority Landfill Coverage</b><br>Arun District Council - Technical Support Unit<br>West Sussex County Council - Environment & Development<br>Worthing Borough Council - Planning Department                                                         | May 2000<br>May 2000<br>May 2000                | Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Local Authority Recorded Landfill Sites</b><br>Arun District Council - Technical Support Unit<br>West Sussex County Council - Environment & Development<br>Worthing Borough Council - Planning Department                                                   | May 2000<br>May 2000<br>May 2000                | Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Registered Landfill Sites</b><br>Environment Agency - Southern Region - Solent and South Downs<br>Environment Agency - Southern Region - Sussex Area                                                                                                        | March 2003<br>March 2003                        | Not Applicable<br>Not Applicable                   |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency - Southern Region - Solent and South Downs<br>Environment Agency - Southern Region - Sussex Area                                                                                                  | March 2003<br>March 2003                        | Not Applicable<br>Not Applicable                   |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency - Southern Region - Solent and South Downs<br>Environment Agency - Southern Region - Sussex Area                                                                                     | March 2003<br>March 2003                        | Not Applicable<br>Not Applicable                   |
| Hazardous Substances                                                                                                                                                                                                                                           | Version                                         | Update Cycle                                       |
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive                                                                                                                                                                          | April 2018                                      | Bi-Annually                                        |
| <b>Explosive Sites</b><br>Health and Safety Executive                                                                                                                                                                                                          | March 2017                                      | Annually                                           |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive                                                                                                                                                      | November 2000                                   | Not Applicable                                     |
| <b>Planning Hazardous Substance Enforcements</b><br>Arun District Council - Technical Support Unit<br>Worthing Borough Council - Planning Department<br>West Sussex County Council - Environment & Development                                                 | February 2016<br>February 2016<br>October 2006  | Variable<br>Variable<br>Annual Rolling Update      |
| <b>Planning Hazardous Substance Consents</b><br>Arun District Council - Technical Support Unit<br>Worthing Borough Council - Planning Department<br>West Sussex County Council - Environment & Development                                                     | February 2016<br>February 2016<br>October 2006  | Variable<br>Variable<br>Annual Rolling Update      |

| Geological                                                                                                                                      | Version      | Update Cycle          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|
| <b>BGS 1:625,000 Solid Geology</b><br>British Geological Survey - National Geoscience Information Service                                       | January 2009 | Not Applicable        |
| <b>BGS Recorded Mineral Sites</b><br>British Geological Survey - National Geoscience Information Service                                        | October 2019 | Bi-Annually           |
| <b>CBSCB Compensation District</b><br>Cheshire Brine Subsidence Compensation Board (CBSCB)                                                      | August 2011  | Not Applicable        |
| <b>Coal Mining Affected Areas</b><br>The Coal Authority - Property Searches                                                                     | March 2014   | Annual Rolling Update |
| <b>Mining Instability</b><br>Ove Arup & Partners                                                                                                | October 2000 | Not Applicable        |
| <b>Non Coal Mining Areas of Great Britain</b><br>British Geological Survey - National Geoscience Information Service                            | May 2015     | Not Applicable        |
| <b>Potential for Collapsible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                | January 2019 | Annually              |
| <b>Potential for Compressible Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service               | January 2019 | Annually              |
| <b>Potential for Ground Dissolution Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                | January 2019 | Annually              |
| <b>Potential for Landslide Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service                  | January 2019 | Annually              |
| <b>Potential for Running Sand Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service               | January 2019 | Annually              |
| <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>British Geological Survey - National Geoscience Information Service | January 2019 | Annually              |
| <b>Radon Potential - Radon Affected Areas</b><br>British Geological Survey - National Geoscience Information Service                            | July 2011    | Annually              |
| <b>Radon Potential - Radon Protection Measures</b><br>British Geological Survey - National Geoscience Information Service                       | July 2011    | Annually              |
| Industrial Land Use                                                                                                                             | Version      | Update Cycle          |
| <b>Contemporary Trade Directory Entries</b><br>Thomson Directories                                                                              | April 2020   | Quarterly             |
| <b>Fuel Station Entries</b><br>Catalist Ltd - Experian                                                                                          | June 2020    | Quarterly             |
| <b>Gas Pipelines</b><br>National Grid                                                                                                           | July 2014    |                       |
| <b>Underground Electrical Cables</b><br>National Grid                                                                                           | October 2019 |                       |

| Sensitive Land Use                                                                                                                                | Version                                         | Update Cycle                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|
| <b>Ancient Woodland</b><br>Natural England                                                                                                        | April 2020                                      | Bi-Annually                               |
| <b>Areas of Adopted Green Belt</b><br>Arun District Council - Technical Support Unit<br>South Downs National Park<br>Worthing Borough Council     | February 2020<br>February 2020<br>February 2020 | As notified<br>As notified<br>As notified |
| <b>Areas of Unadopted Green Belt</b><br>Arun District Council - Technical Support Unit<br>South Downs National Park<br>Worthing Borough Council   | February 2020<br>February 2020<br>February 2020 | As notified<br>As notified<br>As notified |
| <b>Areas of Outstanding Natural Beauty</b><br>Natural England                                                                                     | June 2019                                       | Bi-Annually                               |
| <b>Environmentally Sensitive Areas</b><br>Natural England                                                                                         | January 2017                                    |                                           |
| <b>Forest Parks</b><br>Forestry Commission                                                                                                        | April 1997                                      | Not Applicable                            |
| <b>Local Nature Reserves</b><br>Natural England                                                                                                   | April 2020                                      | Bi-Annually                               |
| <b>Marine Nature Reserves</b><br>Natural England                                                                                                  | July 2019                                       | Bi-Annually                               |
| <b>National Nature Reserves</b><br>Natural England                                                                                                | July 2019                                       | Bi-Annually                               |
| <b>National Parks</b><br>Natural England                                                                                                          | April 2017                                      | Bi-Annually                               |
| <b>Nitrate Sensitive Areas</b><br>Natural England                                                                                                 | April 2016                                      | Not Applicable                            |
| <b>Nitrate Vulnerable Zones</b><br>Environment Agency - Head Office<br>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) | December 2017<br>October 2015                   | Bi-Annually                               |
| <b>Ramsar Sites</b><br>Natural England                                                                                                            | April 2019                                      | Bi-Annually                               |
| <b>Sites of Special Scientific Interest</b><br>Natural England                                                                                    | May 2020                                        | Bi-Annually                               |
| <b>Special Areas of Conservation</b><br>Natural England                                                                                           | June 2019                                       | Bi-Annually                               |
| <b>Special Protection Areas</b><br>Natural England                                                                                                | April 2019                                      | Bi-Annually                               |

A selection of organisations who provide data within this report

| Data Supplier                          | Data Supplier Logo                                                                                                                                                       |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ordnance Survey                        |                                                                                       |
| Environment Agency                     |                                                                                       |
| Scottish Environment Protection Agency |                                                                                       |
| The Coal Authority                     |                                                                                       |
| British Geological Survey              | <br><b>British Geological Survey</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL          |
| Centre for Ecology and Hydrology       | <br><b>Centre for Ecology &amp; Hydrology</b><br>NATURAL ENVIRONMENT RESEARCH COUNCIL |
| Natural Resources Wales                |                                                                                      |
| Scottish Natural Heritage              |                                                                                     |
| Natural England                        |                                                                                     |
| Public Health England                  |                                                                                     |
| Ove Arup                               |                                                                                     |
| Peter Brett Associates                 |                                                                                     |



| Contact | Name and Address                                                                                                                                                  | Contact Details                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1       | <b>British Geological Survey - Enquiry Service</b><br>British Geological Survey, Environmental Science Centre, Keyworth,<br>Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk                          |
| 2       | <b>Environment Agency - National Customer Contact Centre (NCCC)</b><br>PO Box 544, Templeborough, Rotherham, S60 1BY                                              | Telephone: 03708 506 506<br>Email: enquiries@environment-agency.gov.uk                                                          |
| 3       | <b>Arun District Council - Environmental Health Department</b><br>Civic Centre, Maltravers Road, Littlehampton, Sussex, BN17 5LF                                  | Telephone: 01903 737696<br>Fax: 01903 723936<br>Email: Environment@arun.gov.uk<br>Website: www.arun.gov.uk                      |
| 4       | <b>Environment Agency - Head Office</b><br>Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon,<br>BS32 4UD                                        | Telephone: 01454 624400<br>Fax: 01454 624409                                                                                    |
| 5       | <b>Ordnance Survey</b><br>Adanac Drive, Southampton, Hampshire, SO16 0AS                                                                                          | Telephone: 03456 05 05 05<br>Email: customerservices@ordnancesurvey.co.uk<br>Website: www.ordnancesurvey.gov.uk                 |
| 6       | <b>Arun District Council - Technical Support Unit</b><br>Civic Centre, Maltravers Road, Littlehampton, Sussex, BN17 5LF                                           | Telephone: 01903 737500<br>Fax: 01903 730442<br>Website: www.arun.gov.uk                                                        |
| 7       | <b>West Sussex County Council - Environment &amp; Development</b><br>County Hall, Tower hall, Chichester, West Sussex, PO19 1RH                                   | Telephone: 01243 777100<br>Website: www.westsussex.gov.uk                                                                       |
| 8       | <b>Natural England</b><br>County Hall, Spetchley Road, Worcester, WR5 2NP                                                                                         | Telephone: 0300 060 3900<br>Email: enquiries@naturalengland.org.uk<br>Website: www.naturalengland.org.uk                        |
| -       | <b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b><br>Chilton, Didcot, Oxfordshire, OX11 0RQ                   | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@phe.gov.uk<br>Website: www.ukradon.org                             |
| -       | <b>Landmark Information Group Limited</b><br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD                                                                  | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

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## APPENDIX E – Qualitative Risk Assessment

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### Qualitative Risk Assessment

## Preliminary Geotechnical Risk Register

[illegible][illegible][illegible][illegible]

| Likelihood of Occurrence |            |                     |
|--------------------------|------------|---------------------|
| Scale                    | Likelihood | Chance              |
| 4                        | Probable   | >1 in 2             |
| 3                        | Likely     | 1 in 10 to 1 in 2   |
| 2                        | Unlikely   | 1 in 100 to 1 in 10 |
| 1                        | Negligible | <1 in 100           |

↔

| Effect of Hazard |           |                          |
|------------------|-----------|--------------------------|
| Scale            | Effect    | Increase in cost or time |
| 4                | Very High | >10%                     |
| 3                | High      | 4-10%                    |
| 2                | Low       | 1-4%                     |
| 1                | Very Low  | <1%                      |

—

| Degree of Risk |             |                                                                                                          |
|----------------|-------------|----------------------------------------------------------------------------------------------------------|
| Degree of Risk | Risk Level  | Action required                                                                                          |
| 1-4            | Trivial     | None                                                                                                     |
| 5-8            | Significant | Consider cost effective solutions or improvements at no extra cost                                       |
| 9-12           | Substantial | Work must not start until risk has been reduced.<br>Additional resource required                         |
| 13-16          | Intolerable | Work must not start until risk has been reduced. If risk can not be reduced, project should not proceed. |

| Hazard                                    | Effect                              | Likelihood of Occurrence | Effect of Hazard | Risk Classification | Notes                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------|-------------------------------------|--------------------------|------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Made Ground                               | Deepened foundations                | Likely                   | Low              | Significant         | Given the site was previously occupied by buildings which have since been demolished it is likely that the made ground occurs over most of the site. The historical maps indicate an area of low ground during demolition which no longer appears of aerial imagery. therefore it is likely that relatively deep made ground may occur on site.                                                                         |
|                                           | Unstable excavations                | Likely                   | Low              | Significant         |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Compressible Ground                       | Bearing capacity failure            | Negligible               | High             | Trivial             | The natural deposits beneath the site are not deemed to be excessively compressible. However, made ground is highly variable and can be compressible. Given the potentially for areas of deep made ground on site there is a potential for compressible ground in these areas. However, assuming all loads are extended to the natural soils at depth then risks associated with compressible ground is considered low. |
|                                           | Excessive settlement                | Negligible               | High             | Trivial             |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| High Groundwater Table                    | Unstable excavations/ running sands | Likely                   | High             | Substantial         | Given the variable nature of the underlying river terrace deposits there is a potential for perched water to occur on site. Furthermore, the envirocheck report highlights that the site is situated in an area of potential risk for groundwater flooding. As such groundwater at shallow depths is considered likely on site.                                                                                         |
|                                           | Dewatering                          | Likely                   | High             | Substantial         |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                           | Contamination                       | Negligible               | Low              | Trivial             |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Deep Excavations                          | Deepened foundations                | Negligible               | High             | Trivial             | Absence of deep excavations on-site                                                                                                                                                                                                                                                                                                                                                                                     |
| Working in highway                        | Traffic Management                  | Negligible               | Very low         | Trivial             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Shrinkable soils                          | Deepened foundations                | Unlikely                 | High             | Significant         | The soils on site are not considered to be likely to exhibit excess shrink swell behaviour. However, river terrace deposits can contain a large clay fraction and given the trees along the sites southern boundary there is a potential for foundations to require deepening in this area.                                                                                                                             |
|                                           | Heave                               | Unlikely                 | High             | Significant         |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Frost Susceptible soils                   | Road Design                         | Unlikely                 | Low              | Trivial             | The soils on site may contain a significant quantity of silt and as such may be susceptible to frost action.                                                                                                                                                                                                                                                                                                            |
| Aggressive ground conditions for Concrete | Concrete design                     | Unlikely                 | Low              | Trivial             | The soils on site are not among those listed as potentially aggressive to concrete within the BRE digest on aggressive ground conditions.                                                                                                                                                                                                                                                                               |

|                                      |                             |            |           |             |                                                                                                                                                                                                                                                                                 |
|--------------------------------------|-----------------------------|------------|-----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slope Stability/Retaining Structure  | Local stability             | Negligible | High      | Trivial     | The site is relatively flat.                                                                                                                                                                                                                                                    |
|                                      | Global stability            | Negligible | High      | Trivial     |                                                                                                                                                                                                                                                                                 |
| Mining                               | Suitability for development | Negligible | High      | Trivial     | N/A                                                                                                                                                                                                                                                                             |
| Ground dissolution/ Natural cavities | Remedial measures           |            |           |             | The site is situated on river terrace deposits which overlay the chalk. As such there is a potential for solutions features to occur on site. Furthermore from local experience leap is aware of potential solution features which have been encountered in the local area.     |
|                                      |                             | Unlikely   | High      | Significant |                                                                                                                                                                                                                                                                                 |
| Landfill                             | Land gas                    |            |           |             | Given the potential for deep made ground to occur on site there is a potential that this included biodegradable material which could represent a potential ground gas source on site.                                                                                           |
|                                      |                             | Unlikely   | High      | Significant |                                                                                                                                                                                                                                                                                 |
| Contaminated land                    | Remedial measures           |            |           |             | It is assumed that much of the demolition rubble from the removal of the previous school buildings is still present on site. There is a potential for contamination including heavy metals, hydrocarbons and asbestos within the stockpiles as well as any made ground on site. |
|                                      |                             | Likely     | High      | Substantial |                                                                                                                                                                                                                                                                                 |
| Archaeological remains               | Remedial measures           |            |           |             | Given the site has previously been developed it is unlikely that if previously present any archaeological materials remain on site.                                                                                                                                             |
|                                      |                             | Negligible | High      | Trivial     |                                                                                                                                                                                                                                                                                 |
| UXO                                  | UXO supervision             | Likely     | Very high | Substantial | UXO risk has been deemed Moderate based on an assessment of the Zetica Risk Maps.                                                                                                                                                                                               |

DT IX T DP DQ DZ MC AWT EC TT T

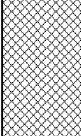
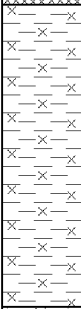
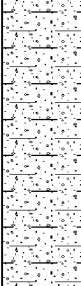
Site Name Land west of Elm Grove Road, Littlehampton  
 Project number LP2765  
 Current land use Former primary and secondary school site  
 Proposed land use Residential with private gardens, areas of public open space

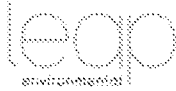
| Primary sources                                               | Potential contaminants                                                                                                                     | Potential Pathways                                                | Potential Receptors                                         | Likelihood      | Consequence       | Risk Classification                                                                                                                                                                                                                                                                                                                                                                                     | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------|-----------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Made ground source area 1                                     | Non-volatile potential contaminants of concern i.e. metals, metalloids, TPH compounds with carbon bands >C12, PAHs, excluding naphthalene  | Dermal contact with household dust                                | Future residential land users                               | Likely          | Mild              | Moderate/low risk                                                                                                                                                                                                                                                                                                                                                                                       | In the non-stockpiled areas of the site there was visible signs of demolition waste at surface including concrete, brick and asphalt graves. Given the age of the previous school buildings heavy metals and PAHs in this material.                                                                                                                                                                                                                |
|                                                               |                                                                                                                                            | Dermal contact with soil                                          |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Ingestion of contaminated vegetables                              |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Ingestion of household dust                                       |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Ingestion of soil                                                 |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Ingestion of soil attached to vegetables                          |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Ingestion of household dust                                       |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Inhalation of fugitive household dust                             |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Inhalation of fugitive soil dust                                  |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Dermal contact with soil<br>Ingestion of soil                     | Construction worker                                         | High likelihood | Mild              | Moderate risk                                                                                                                                                                                                                                                                                                                                                                                           | In the absence of PPE the risk to construction and maintenance workers is moderate. This may be reduced to low risk with appropriate risk assessments, method statements and use of PPE                                                                                                                                                                                                                                                            |
|                                                               |                                                                                                                                            | Inhalation of fugitive soil dust                                  |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Direct contact with soil                                          | Below ground infrastructure e.g. potable water supply pipes | Likely          | Medium            | Moderate risk                                                                                                                                                                                                                                                                                                                                                                                           | Localised areas of PAH/TPH contamination may pose a risk to potable water pipes                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Vertical and lateral migration via saturated zone                 | Groundwater                                                 | Low likelihood  | Medium            | Moderate/low risk                                                                                                                                                                                                                                                                                                                                                                                       | Near surface soils comprise low permeability clays, sands and silts of the River Terrace Deposits (Secondary A Aquifer) overlying Chalk aquifer (Principal Aquifer).                                                                                                                                                                                                                                                                               |
|                                                               |                                                                                                                                            | Vertical and lateral migration via unsaturated zone               |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Surface water runoff                                              | Surface water feature                                       | Unlikely        | Mild              | Very low risk                                                                                                                                                                                                                                                                                                                                                                                           | There is a unnamed surface water feature onsite, which appears to be a dry retention pond in the west of the site. There are no named surface water features within 500 m of the site.                                                                                                                                                                                                                                                             |
| Asbestos containing materials / loose asbestos fibres in soil | Inhalation pathways only                                                                                                                   | Future residential land users                                     | Low likelihood                                              | Severe          | Moderate risk     | There is the possibility of residual asbestos containing material in demolition material in near surface soils, as observed during the walkover. However it is noted that during demolition works (as evidenced by the coatings report filed in the WSCC planning portal) that asbestos removal works were undertaken. On this basis, it may be anticipated that low level ACMs may be present on site. |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Construction worker                                               | Low likelihood                                              | Severe          | Moderate risk     | As above, the risk to construction works can be reduced to low provided that appropriate H&S mitigation measures are applied, including toolbox talks, dust suppression and PPE & APE as a last measure.                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               | Land gases (methane, carbon dioxide etc)                                                                                                   | Inhalation of land gases inside                                   | Future residential land users                               | Low likelihood  | Medium            | Moderate/low risk                                                                                                                                                                                                                                                                                                                                                                                       | Made ground thickness across the majority of the site is anticipated to be <1 m thick, as such the generation of land gases is considered to be a low likelihood. However, historical maps indicate an earth bund in the western portion of the site, which is currently covered by a waste stockpile. Depending on the nature of the covered bund and whether it contained putrescible waste there is a possibility of onsite land gas generation |
|                                                               |                                                                                                                                            | Inhalation of land gases outside                                  |                                                             | Low likelihood  | Mild              | Low risk                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                               |                                                                                                                                            | Migration of land gases through permeable deposits                | Buildings                                                   | Low likelihood  | Medium            | Moderate/low risk                                                                                                                                                                                                                                                                                                                                                                                       | As above                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                               | Stockpiled material<br>Metals and metalloids e.g. arsenic, lead, copper, TPH, PAHs, VOCs, asbestos containing material, putrescible wastes | All human health (dermal contact, ingestion, inhalation) pathways | Future residential land users                               | Unlikely        | Mild              | Very low risk                                                                                                                                                                                                                                                                                                                                                                                           | At this stage we understand that the stockpiles are a waste and will not be permitted to remain on site, as such post development there will be no risk.                                                                                                                                                                                                                                                                                           |
| Construction worker                                           |                                                                                                                                            |                                                                   | Likely                                                      | Mild            | Moderate/low risk | During groundworks construction workers may be exposed to potential contaminants of concern that may be contained within the stockpiles. During the walkover no obvious signs of contaminated material were observed in the stockpiles                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Surface water runoff                                          |                                                                                                                                            |                                                                   | Surface water feature                                       | Unlikely        | Mild              | Very low risk                                                                                                                                                                                                                                                                                                                                                                                           | As above - post development the stockpiles will not remain                                                                                                                                                                                                                                                                                                                                                                                         |
| Vertical and lateral migration via unsaturated zone           |                                                                                                                                            |                                                                   | Groundwater                                                 | Unlikely        | Mild              | Very low risk                                                                                                                                                                                                                                                                                                                                                                                           | As above - post development the stockpiles will not remain                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                               |                                                                                                                                            |                                                                   |                                                             |                 |                   |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| > Electrical substation                                       | Polychlorinated biphenyls (PCBs)                                                                                                           | Vertical and lateral migration via unsaturated zone               | Future residential land users                               | Unlikely        | Medium            | Low risk                                                                                                                                                                                                                                                                                                                                                                                                | The off site electrical substation is down hydraulic gradient of the site. It is considered unlikely that accidental releases of transformer oils would migrate through the surficial deposits onto site.                                                                                                                                                                                                                                          |
|                                                               |                                                                                                                                            | Construction worker                                               | Unlikely                                                    | Medium          | Low risk          |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## APPENDIX F Trial Hole and Borehole Logs

## Trial Hole and Borehole Logs



|  Leap Environmental Ltd<br>The Atrium, Curtis Road<br>Dorking, Surrey RH4 1XA<br>Tel: 01306 646510<br>www.leapenvironmental.com |                             |      |         | <h1 style="text-align: center;">Trial Pit Log</h1> |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          | Trialpit No<br><b>TP1</b><br>Sheet 1 of 1 |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|---------|----------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                      |                             |      |         | Project No.<br>LP2265                              |                      | Co-ords: -<br>Level:                                                                                                                                                                                                |                                                                                                                                                                          | Date<br>22/06/2020                        |                                                                                       |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                             |                             |      |         |                                                    |                      | Dimensions (m):                                                                                                                                                                                                     |                                                                                                                                                                          | Scale<br>1:25                             |                                                                                       |
| Client: Boklok Housing                                                                                                                                                                                          |                             |      |         |                                                    |                      | Depth<br>2.50                                                                                                                                                                                                       |                                                                                                                                                                          | Logged<br>MW                              |                                                                                       |
| Water<br>Strike                                                                                                                                                                                                 | Samples and In Situ Testing |      |         | Depth<br>(m)                                       | Level<br>(m)         | Legend                                                                                                                                                                                                              | Stratum Description                                                                                                                                                      |                                           |                                                                                       |
|                                                                                                                                                                                                                 | Depth                       | Type | Results |                                                    |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          |                                           |                                                                                       |
|                                                                                                                                                                                                                 | 0.20                        | ES   | N=12    | 0.50                                               |                      |  Light brown sandy gravelly MADE GROUND. The gravel comprises brick and concrete with occasional asphalt, wires and flint cobbles. |  Stiff brown becoming orangish brown with depth slightly silty CLAY.<br>Hand Pen=240kPa | 1                                         |                                                                                       |
|                                                                                                                                                                                                                 | 0.50                        | D    |         |                                                    |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          |                                           |                                                                                       |
|                                                                                                                                                                                                                 | 0.60                        | ES   |         |                                                    |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          |                                           |                                                                                       |
|                                                                                                                                                                                                                 | 1.00                        | D    |         | 1.50                                               |                      |  Medium dense silty slightly clayey gravelly SAND. Sand is medium to coarse, gravel is sub-angular to rounded flint.              | 2                                                                                                                                                                        |                                           |                                                                                       |
|                                                                                                                                                                                                                 | 1.50                        | B    |         |                                                    |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          |                                           |                                                                                       |
|                                                                                                                                                                                                                 | 2.00                        | D    |         |                                                    |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          |                                           |                                                                                       |
|                                                                                                                                                                                                                 | 2.50                        | B    | 2.50    |                                                    | End of pit at 2.50 m |                                                                                                                                                                                                                     | 3                                                                                                                                                                        |                                           |                                                                                       |
|                                                                                                                                                                                                                 |                             |      |         |                                                    |                      |                                                                                                                                                                                                                     | 4                                                                                                                                                                        |                                           |                                                                                       |
|                                                                                                                                                                                                                 |                             |      |         |                                                    |                      |                                                                                                                                                                                                                     | 5                                                                                                                                                                        |                                           |                                                                                       |
| Remarks: Trial pit remained dry and stable and was backfilled with arisings on completion.                                                                                                                      |                             |      |         |                                                    |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          |                                           |  |
| Stability:                                                                                                                                                                                                      |                             |      |         |                                                    |                      |                                                                                                                                                                                                                     |                                                                                                                                                                          |                                           |                                                                                       |

|  Leap Environmental Ltd<br>The Atrium, Curtis Road<br>Dorking, Surrey RH4 1XA<br>Tel: 01306 646510<br>www.leapenvironmental.com |                             |      |         | <h1 style="text-align: center;">Trial Pit Log</h1> |                                                                                     |                                                                                     |                                                                                                                                     | Trialpit No<br><b>TP2</b><br>Sheet 1 of 1 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|---------|----------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |                             |      |         | Project No.<br>LP2265                              |                                                                                     | Co-ords: -<br>Level:                                                                |                                                                                                                                     | Date<br>22/06/2020                        |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |                             |      |         |                                                    |                                                                                     | Dimensions (m):                                                                     |                                                                                                                                     | Scale<br>1:25                             |  |
| Client: Boklok Housing                                                                                                                                                                                           |                             |      |         |                                                    |                                                                                     | Depth<br>3.00                                                                       |                                                                                                                                     | Logged<br>MW                              |  |
| Water<br>Strike                                                                                                                                                                                                  | Samples and In Situ Testing |      |         | Depth<br>(m)                                       | Level<br>(m)                                                                        | Legend                                                                              | Stratum Description                                                                                                                 |                                           |  |
|                                                                                                                                                                                                                  | Depth                       | Type | Results |                                                    |                                                                                     |                                                                                     |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  | 0.15                        | ES   | N=10    | 0.02                                               |                                                                                     |    | Grass over light brown gravelly clayey TOPSOIL                                                                                      |                                           |  |
|                                                                                                                                                                                                                  |                             |      |         |                                                    |                                                                                     |    | Black ashy gravelly fill possible remenant blacktop surface.                                                                        |                                           |  |
|                                                                                                                                                                                                                  |                             |      |         | 0.25                                               |                                                                                     |    | Pale brown gravelly sandy CLAY. Gravel is fine to coarse sub angular to sub rounded flint with occasional flint cobbles.            |                                           |  |
|                                                                                                                                                                                                                  | 0.50                        | D    |         | 0.35                                               |                                                                                     |    | Very stiff greyish brown CLAY.<br><i>Hand Pen=580kPa</i>                                                                            |                                           |  |
|                                                                                                                                                                                                                  |                             |      |         |                                                    |                                                                                     |    |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  | 0.80                        | ES   |         |                                                    |                                                                                     |    |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  | 1.00                        | D    |         | 1.00                                               |                                                                                     |    | Firm orange brown CLAY. From 1.5m becoming slightly mottled orange slightly gravelly CLAY. Gravel is sub angular to angular gravel. |                                           |  |
|                                                                                                                                                                                                                  |                             |      |         |                                                    |                                                                                     |   |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  | 1.50                        | D    |         |                                                    |                                                                                     |  | <i>Clay becomes slightly mottled orange and slightly gravelly from 1.5m</i><br><i>Hand Pen=180kPa</i>                               |                                           |  |
|                                                                                                                                                                                                                  |                             |      |         |                                                    |                                                                                     |  |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  |                             |      | 1.80    |                                                    |  | Firm orange brown sandy silty CLAY. Sand is fine to medium grained.                 |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  |                             |      | 2.00    |                                                    |  |                                                                                     |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  |                             |      | 2.10    |                                                    |  | Firm pale yellow mottled brown sandy CLAY. Sand is fine to coarse grained           |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  |                             |      | 2.40    |                                                    |  | Firm pale yellow mottled brown sandy CLAY.<br><i>Hand Pen=215kPa</i>                |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  |                             |      | 2.50    |                                                    |  |                                                                                     |                                                                                                                                     |                                           |  |
|                                                                                                                                                                                                                  |                             |      | 3.00    |                                                    |  | End of pit at 3.00 m                                                                |                                                                                                                                     |                                           |  |
| Remarks: Trial pit remained dry and stable and was backfilled with arisings on completion.                                                                                                                       |                             |      |         |                                                    |                                                                                     |                                                                                     |                                                                                                                                     |                                           |  |
| Stability:                                                                                                                                                                                                       |                             |      |         |                                                    |                                                                                     |                                                                                     |                                                                                                                                     |                                           |  |



|                                                                                                                                                                            |  |  |  |                                           |  |                                                                                                                                                                                                                                     |  |                                                                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------|--|
| <div style="clear: both;"></div> <p>Leap Environmental Ltd<br/>The Atrium, Curtis Road<br/>Dorking, Surrey RH4 1XA<br/>Tel: 01306 646510<br/>www.leapenvironmental.com</p> |  |  |  | <h1 style="margin: 0;">Trial Pit Log</h1> |  |                                                                                                                                                                                                                                     |  | <p>Trialpit No</p> <h2 style="margin: 0;">TP3</h2> <p>Sheet 1 of 1</p> |  |
| <p><b>Project Name:</b> Elmgrove Road, Littlehampton</p>                                                                                                                   |  |  |  | <p><b>Project No.</b><br/>LP2265</p>      |  | <p><b>Co-ords:</b> -<br/><b>Level:</b></p>                                                                                                                                                                                          |  | <p><b>Date</b><br/>22/06/2020</p>                                      |  |
| <p><b>Location:</b> ElmGrove Road, Littlehampton, West Sussex</p>                                                                                                          |  |  |  |                                           |  | <p><b>Dimensions (m):</b></p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Depth<br/>3.00</div> <div style="border: 1px solid black; width: 100px; height: 30px; flex-grow: 1;"></div> </div> |  | <p><b>Scale</b><br/>1:25</p>                                           |  |
| <p><b>Client:</b> Boklok Housing</p>                                                                                                                                       |  |  |  |                                           |  | <p><b>Logged</b><br/>MW</p>                                                                                                                                                                                                         |  |                                                                        |  |

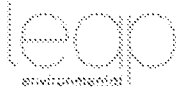
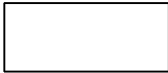
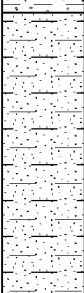
| Water Strike | Samples and In Situ Testing |         |         | Depth (m) | Level (m) | Legend                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Stratum Description |  |
|--------------|-----------------------------|---------|---------|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|              | Depth                       | Type    | Results |           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |  |
|              | 0.20                        | ES      | N=46    | 0.30      |           | <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> | 1                   |  |
|              | 0.50<br>0.60                | D<br>ES |         |           |           | <p>Light brown sandy gravelly MADE GROUND. Comprising gravels of asphalt concrete, occasional tile fragment and medium to coarse flint.</p> <p>Stiff brown silty gravelly CLAY. Gravel is medium to coarse sub angular to sub rounded flint.</p> <p><u>Hand Pen=245kPa</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |  |
|              | 1.00                        | D       |         | 1.20      |           | <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div>                                                                                                                                                                       | 2                   |  |
|              | 1.50                        | D       |         |           |           | <p>Firm orange brown sandy gravelly CLAY. Sand is fine to medium grained. Gravel is sub-angular to sub-rounded flint.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |  |
|              | 2.00                        | B       |         | 1.80      |           | <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div>                                                                                                                                                                       | 3                   |  |
|              | 2.50                        | D       |         |           |           | <p>Medium dense orange finely laminated silty SAND. Sand is fine to medium grained.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |  |
|              | 3.00                        | D       |         | 2.50      |           | <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div>                                                                                                                                                                       | 4                   |  |
|              |                             |         |         |           |           | <p>Medium dense yellowish orange silty gravelly SAND. Sand is fine to medium grained. Gravel is angular to sub-angular occasional sub-rounded flint with rare flint cobbles.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |
|              |                             |         |         | 3.00      |           | <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px); width: 100px; height: 20px; margin-bottom: 5px;"></div>                                                                                                                                                                       | 5                   |  |
|              |                             |         |         |           |           | <p>End of pit at 3.00 m</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |  |

**Remarks:** Trial pit remained dry and stable and was backfilled with arisings on completion.

**Stability:**



|  Leap Environmental Ltd<br>The Atrium, Curtis Road<br>Dorking, Surrey RH4 1XA<br>Tel: 01306 646510<br>www.leapenvironmental.com |                             |      |                      | <h1 style="text-align: center;">Trial Pit Log</h1> |                                                                                                                                                                 |                                                                                                                   |                                                                                                                           | Trialpit No<br><b>TP5</b><br>Sheet 1 of 1 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|----------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |                             |      |                      | Project No.<br>LP2265                              |                                                                                                                                                                 | Co-ords: -<br>Level:                                                                                              |                                                                                                                           | Date<br>22/06/2020                        |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |                             |      |                      |                                                    |                                                                                                                                                                 | Dimensions (m):<br>Depth 3.00                                                                                     |                                                                                                                           | Scale<br>1:25                             |  |
| Client: Boklok Housing                                                                                                                                                                                           |                             |      |                      |                                                    |                                                                                                                                                                 |                                |                                                                                                                           | Logged<br>ADC                             |  |
| Water<br>Strike                                                                                                                                                                                                  | Samples and In Situ Testing |      |                      | Depth<br>(m)                                       | Level<br>(m)                                                                                                                                                    | Legend                                                                                                            | Stratum Description                                                                                                       |                                           |  |
|                                                                                                                                                                                                                  | Depth                       | Type | Results              |                                                    |                                                                                                                                                                 |                                                                                                                   |                                                                                                                           |                                           |  |
|                                                                                                                                                                                                                  | 0.30                        | ES   | N=12                 | 0.20                                               |                                                                                                                                                                 |                                  | Grass over light brown slightly silty slightly sandy gravelly MADE GROUND. Gravel is flint, concrete, brick and blacktop. |                                           |  |
|                                                                                                                                                                                                                  | 0.50                        | ES   |                      | 0.50                                               |                                                                                | Orangish brown gravelly MADE GROUND. Gravel is medium to coarse flint, whole bricks and concrete cobbles.         |                                                                                                                           |                                           |  |
|                                                                                                                                                                                                                  | 1.00                        | D    |                      | 1.30                                               |                                                                                | Firm to stiff orangish brown slightly silty slightly gravelly CLAY. Gravel is medium to coarse sub angular flint. |                                                                                                                           |                                           |  |
|                                                                                                                                                                                                                  | 1.50                        | D    |                      |                                                    | Hand Pen=210kPa                                                                                                                                                 |                                                                                                                   |                                                                                                                           |                                           |  |
|                                                                                                                                                                                                                  | 1.70                        | D    |                      |                                                    | Medium dense orangish brown slightly gravelly slightly clayey SAND with occasional pockets of sandy clay. Sand is fine grained. Gravel is coarse rounded flint. |                                                                                                                   |                                                                                                                           |                                           |  |
|                                                                                                                                                                                                                  | 2.50                        | B    |                      | 3.00                                               |                                                                               | Hand Pen=180kPa (on a clay pocket)                                                                                |                                                                                                                           |                                           |  |
|                                                                                                                                                                                                                  |                             |      | End of pit at 3.00 m |                                                    |                                                                                                                                                                 |                                                                                                                   |                                                                                                                           |                                           |  |
| Remarks: Trial pit remained dry and stable and was backfilled with arisings on completion.                                                                                                                       |                             |      |                      |                                                    |                                                                                                                                                                 |                                                                                                                   |                                                                                                                           |                                           |  |
| Stability:                                                                                                                                                                                                       |                             |      |                      |                                                    |                                                                                                                                                                 |                                                                                                                   |                                                                                                                           |                                           |  |

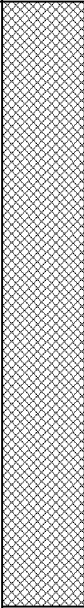










|  Leap Environmental Ltd<br>The Atrium, Curtis Road<br>Dorking, Surrey RH4 1XA<br>Tel: 01306 646510<br>www.leapenvironmental.com |                             |      |         | <h1 style="text-align: center;">Trial Pit Log</h1> |              |                                                                                    |                                                                                                                                                                                          | Trialpit No<br><b>TP9</b><br>Sheet 1 of 1 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|---------|----------------------------------------------------|--------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                      |                             |      |         | Project No.<br>LP2265                              |              | Co-ords: -<br>Level:                                                               |                                                                                                                                                                                          | Date<br>22/06/2020                        |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                             |                             |      |         |                                                    |              | Dimensions (m):                                                                    |                                                                                                                                                                                          | Scale<br>1:25                             |  |
| Client: Boklok Housing                                                                                                                                                                                          |                             |      |         |                                                    |              | Depth<br>2.00                                                                      |                                                                                                                                                                                          | Logged<br>MW                              |  |
| Water<br>Strike                                                                                                                                                                                                 | Samples and In Situ Testing |      |         | Depth<br>(m)                                       | Level<br>(m) | Legend                                                                             | Stratum Description                                                                                                                                                                      |                                           |  |
|                                                                                                                                                                                                                 | Depth                       | Type | Results |                                                    |              |                                                                                    |                                                                                                                                                                                          |                                           |  |
|                                                                                                                                                                                                                 | 1.50                        | ES   |         | 2.00                                               |              |  | Grass over brown slightly sandy clayey gravelly MADE GROUND. Gravels of rounded to sub rounded sub angular flint, sub rounded chalk, coarse brick and concrete, occasional whole bricks. |                                           |  |
|                                                                                                                                                                                                                 |                             |      |         |                                                    |              |                                                                                    | End of pit at 2.00 m                                                                                                                                                                     |                                           |  |
| <div style="display: flex; justify-content: space-between;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> <span>5</span> </div>                                                                  |                             |      |         |                                                    |              |                                                                                    |                                                                                                                                                                                          |                                           |  |
| Remarks: Trial pit remained dry and stable and was backfilled with arisings on completion. Trial pit was undertaken into stockpile.                                                                             |                             |      |         |                                                    |              |                                                                                    |                                                                                                                                                                                          |                                           |  |
| Stability:                                                                                                                                                                                                      |                             |      |         |                                                    |              |                                                                                    |                                                                                                                                                                                          |                                           |  |





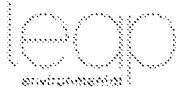
|                                                                                                                                                                            |  |  |  |                                           |  |                                                                                                                                                                                                                                     |  |                                                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|
| <div style="clear: both;"></div> <p>Leap Environmental Ltd<br/>The Atrium, Curtis Road<br/>Dorking, Surrey RH4 1XA<br/>Tel: 01306 646510<br/>www.leapenvironmental.com</p> |  |  |  | <h1 style="margin: 0;">Trial Pit Log</h1> |  |                                                                                                                                                                                                                                     |  | <p>Trialpit No<br/><b>TP11</b></p> <p>Sheet 1 of 1</p> |  |
| <p><b>Project Name:</b> Elmgrove Road, Littlehampton</p>                                                                                                                   |  |  |  | <p><b>Project No.</b><br/>LP2265</p>      |  | <p><b>Co-ords:</b> -<br/><b>Level:</b></p>                                                                                                                                                                                          |  | <p><b>Date</b><br/>22/06/2020</p>                      |  |
| <p><b>Location:</b> ElmGrove Road, Littlehampton, West Sussex</p>                                                                                                          |  |  |  |                                           |  | <p><b>Dimensions (m):</b></p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Depth<br/>2.50</div> <div style="border: 1px solid black; width: 100px; height: 30px; flex-grow: 1;"></div> </div> |  | <p><b>Scale</b><br/>1:25</p>                           |  |
| <p><b>Client:</b> Boklok Housing</p>                                                                                                                                       |  |  |  |                                           |  | <p><b>Logged</b><br/>MW</p>                                                                                                                                                                                                         |  |                                                        |  |

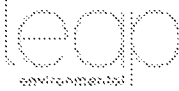
| Water Strike | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                     |   |
|--------------|-----------------------------|------|---------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|              | Depth                       | Type | Results |           |           |        |                                                                                                                                                                                                                                         |   |
|              | 0.50                        | ES   |         |           |           |        | Grass over greyish brown slightly sandy clayey gravelly MADE GROUND. Gravels of rounded to sub rounded sub angular flint, coarse brick and concrete, occasional whole bricks.                                                           | 1 |
|              | 1.50                        | ES   |         |           |           |        | Soft dark brown greyish gravelly clay MADE GROUND. Gravels of rounded to sub rounded flint. Occasional fine to medium brick gravel. Woven black plastic membrane embedded within clay.<br><i>Burnt organic odour within made ground</i> | 2 |
|              |                             |      |         | 2.50      |           |        | End of pit at 2.50 m                                                                                                                                                                                                                    | 3 |
|              |                             |      |         |           |           |        |                                                                                                                                                                                                                                         | 4 |
|              |                             |      |         |           |           |        |                                                                                                                                                                                                                                         | 5 |

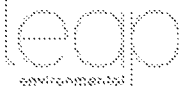
|                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>Remarks:</b> Trial pit remained dry and stable and was backfilled with arisings on completion. Trial pit was undertaken into stockpile</p> <p><b>Stability:</b></p> |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|---------|------------------------|--------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |                             |      |         | Project No.<br>LP2265  |              | Co-ords: -<br>Level: |                                                                                                                                                                                                                                                                                                  | Date<br>22/06/2020                         |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |                             |      |         |                        |              | Dimensions (m):      |                                                                                                                                                                                                                                                                                                  | Scale<br>1:25                              |  |
| Client: Boklok Housing                                                                                                                                                                                           |                             |      |         |                        |              | Depth<br>2.50        |                                                                                                                                                                                                                                                                                                  | Logged<br>MW                               |  |
| Water<br>Strike                                                                                                                                                                                                  | Samples and In Situ Testing |      |         | Depth<br>(m)           | Level<br>(m) | Legend               | Stratum Description                                                                                                                                                                                                                                                                              |                                            |  |
|                                                                                                                                                                                                                  | Depth                       | Type | Results |                        |              |                      |                                                                                                                                                                                                                                                                                                  |                                            |  |
|                                                                                                                                                                                                                  | 0.50                        | ES   |         |                        |              |                      | Grass over light brown becoming brown with depth slightly sandy gravelly clay MADE GROUND. Gravel is sub rounded to sub angular flint with medium to coarse brick and concrete. Occasional whole bricks, and asphalt gravels. Rare wood and plastic fragments / plastic bags. Rare paving slabs. |                                            |  |
|                                                                                                                                                                                                                  | 1.80                        | ES   |         | 1.60                   |              |                      | Soft to firm dark grey slightly gravelly clay MADE GROUND. Slight organic odour. Gravel is medium to coarse sub rounded to rounded sub angular flint. Black plastic netting, plastic tile fragments and rare rubber seals encountered within clay.                                               |                                            |  |
|                                                                                                                                                                                                                  |                             |      |         | 2.50                   |              |                      | End of pit at 2.50 m                                                                                                                                                                                                                                                                             |                                            |  |
| Remarks: Trial pit remained dry and stable and was backfilled with arisings on completion. Trial pit was undertaken into stockpile                                                                               |                             |      |         |                        |              |                      |                                                                                                                                                                                                                                                                                                  |                                            |  |
| Stability:                                                                                                                                                                                                       |                             |      |         |                        |              |                      |                                                                                                                                                                                                                                                                                                  |                                            |  |

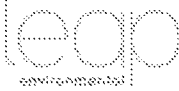


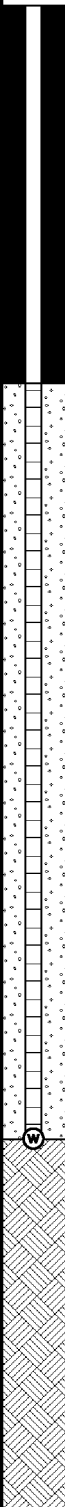
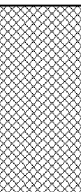
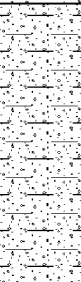
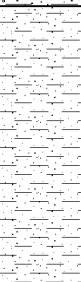
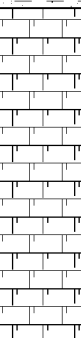
|  Leap Environmental Ltd<br>The Atrium, Curtis Road<br>Dorking, Surrey RH4 1XA<br>Tel: 01306 646510<br>www.leapenvironmental.com |                  |                             |      | <h1>Borehole Log</h1>          |              |                  |        | Borehole No.<br><b>WS1B</b><br>Sheet 1 of 1                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|------|--------------------------------|--------------|------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------|--|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |                  |                             |      | Project No.<br>LP2265          |              | Co-ords: -       |        | Hole Type<br>WS                                                                                                                        |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |                  |                             |      | Level:                         |              | Scale<br>1:20    |        |                                                                                                                                        |  |
| Client: Boklok Housing                                                                                                                                                                                           |                  |                             |      | Dates: 22/06/2020 - 22/06/2020 |              | Logged By<br>ADC |        |                                                                                                                                        |  |
| Well                                                                                                                                                                                                             | Water<br>Strikes | Samples and In Situ Testing |      |                                | Depth<br>(m) | Level<br>(m)     | Legend | Stratum Description                                                                                                                    |  |
|                                                                                                                                                                                                                  |                  | Depth (m)                   | Type | Results                        |              |                  |        |                                                                                                                                        |  |
|                                                                                                                                                                                                                  |                  |                             |      |                                | 0.35         |                  |        | Grass over pale brown slightly gravelly slightly<br>sandy silty reworked TOPSOIL. Gravel is fine to<br>medium flint and rare concrete. |  |
|                                                                                                                                                                                                                  |                  |                             |      |                                |              |                  |        | End of borehole at 0.35 m                                                                                                              |  |
|                                                                                                                                                                                                                  |                  |                             |      |                                |              |                  |        | 1                                                                                                                                      |  |
|                                                                                                                                                                                                                  |                  |                             |      |                                |              |                  |        | 2                                                                                                                                      |  |
|                                                                                                                                                                                                                  |                  |                             |      |                                |              |                  |        | 3                                                                                                                                      |  |
|                                                                                                                                                                                                                  |                  |                             |      |                                |              |                  |        | 4                                                                                                                                      |  |
| Remarks<br>Excavation remained dry and stable and was backfilled with arisings on completion. Excavation was terminated due to<br>encountering a concrete obstruction at 0.35m                                   |                  |                             |      |                                |              |                  |        |                                                                                                                                        |  |



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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------|------|---------|--------------------------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |               |                             |      |         | Project No.<br>LP2265          |           | Co-ords: -       |                                                                                                                           | Hole Type<br>WS |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |               |                             |      |         | Level:                         |           | Scale<br>1:20    |                                                                                                                           |                 |
| Client: Boklok Housing                                                                                                                                                                                           |               |                             |      |         | Dates: 22/06/2020 - 22/06/2020 |           | Logged By<br>ADC |                                                                                                                           |                 |
| Well                                                                                                                                                                                                             | Water Strikes | Samples and In Situ Testing |      |         | Depth (m)                      | Level (m) | Legend           | Stratum Description                                                                                                       |                 |
|                                                                                                                                                                                                                  |               | Depth (m)                   | Type | Results |                                |           |                  |                                                                                                                           |                 |
|                                                                                                                                                                                                                  |               |                             |      |         | 0.30                           |           |                  | Blacktop and concrete rubble over grey slightly sandy gravelly MADEGROUND. Gravel is concrete, brick, blacktop and flint. |                 |
| <div style="text-align: right;">End of borehole at 0.30 m</div>                                                                                                                                                  |               |                             |      |         |                                |           |                  |                                                                                                                           |                 |
|                                                                                                                                                                                                                  |               |                             |      |         |                                |           |                  |                                                                                                                           |                 |
| Remarks<br>Excavation remained dry and stable and was backfilled with arisings on completion. Excavation was terminated due to encountering a concrete obstruction at 0.30m                                      |               |                             |      |         |                                |           |                  |                                                                                                                           |                 |



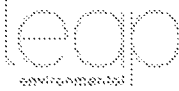
|                                                                                                                                                                                                                  |  |  |  |                                                   |  |                  |  |                                                          |  |
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| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |  |  |  | Project No.<br>LP2265                             |  | Co-ords: -       |  | Sheet 1 of 2<br>Hole Type<br>WS                          |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |  |  |  | Level:                                            |  | Scale<br>1:20    |  |                                                          |  |
| Client: Boklok Housing                                                                                                                                                                                           |  |  |  | Dates: 22/06/2020 - 22/06/2020                    |  | Logged By<br>ADC |  |                                                          |  |

| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                     | Depth (m) | Level (m)                                                                           | Legend                                                                                                                                                        | Stratum Description |                                                                                                                                  |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|---------------------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    |               | Depth (m)                   | Type | Results             |           |                                                                                     |                                                                                                                                                               |                     |                                                                                                                                  |
|  |               | 0.20                        | ES   |                     | 0.50      |    | Grass over light brown gravelly silty MADE GROUND. Gravel is fine to coarse, flint, brick and mortar.                                                         | 1                   |                                                                                                                                  |
|                                                                                    |               |                             |      |                     |           |                                                                                     |                                                                             |                     | Firm orangish brown slightly gravelly slightly silty CLAY. Gravel is fine to coarse flint with occasional rounded flint cobbles. |
|                                                                                    |               | 0.90                        | D    |                     | 1.60      |  | Medium dense dark orangish brown slightly gravelly slightly clayey SAND. Gravel is medium to coarse sub-angular to sub-rounded flint. Sand is fine to medium. | 2                   |                                                                                                                                  |
|                                                                                    |               | 1.00                        |      | N=14 (3,4/4,4,3,3)  |           |                                                                                     |                                                                                                                                                               |                     | <div>Hand Pen at 1.2m =330kPa</div>                                                                                              |
|                                                                                    |               | 1.80                        | D    |                     | 2.35      |  | Stiff grey sandy CLAY with occasional medium flint gravel.<br><div>Localised orange iron staining.</div> <div>Hand Pen at 2.5m =490kPa</div>                  | 3                   |                                                                                                                                  |
|                                                                                    |               | 2.00                        |      | N=12 (4,4/3,3,3,3)  |           |                                                                                     |                                                                                                                                                               |                     |                                                                                                                                  |
|                                                                                    |               | 2.50                        | D    |                     | 3.10      |  | Highly weathered off white mottled pale orange CHALK recovered as gravelly silt. Gravel is fine to medium low density chalk and flint. Grade Dm               | 4                   |                                                                                                                                  |
|                                                                                    |               | 3.00                        |      | N=37 (7,5/10,9,9,9) |           |                                                                                     |                                                                                                                                                               |                     |                                                                                                                                  |
|                                                                                    | 3.50          | D                           |      |                     |           |                                                                                     |                                                                                                                                                               |                     |                                                                                                                                  |

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|                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Remarks</b><br>Borehole remained stable throughout. Groundwater monitoring well was installed comprising a raised steel cover over 1.0m of plain 63mm diameter pipe over 2.0m of slotted pipe. The slotted pipe was surrounded with shingle whilst the plain pipe was surrounded with bentonite to form a seal. The remainder of the borehole from 3.0m to 6.0m was backfilled with arisings. |  |
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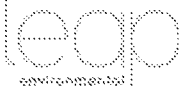


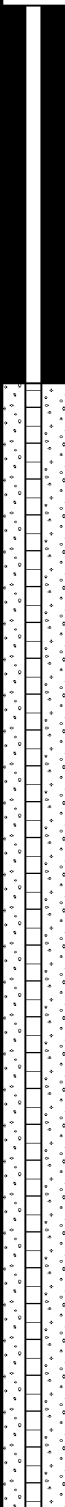
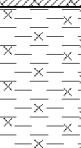
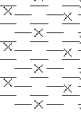
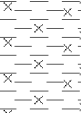
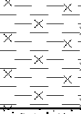
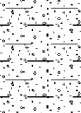
|                                                                                                                                                                                                                  |  |                                                   |  |                  |                                                                       |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|------------------|-----------------------------------------------------------------------|-----------------|
|  Leap Environmental Ltd<br>The Atrium, Curtis Road<br>Dorking, Surrey RH4 1XA<br>Tel: 01306 646510<br>www.leapenvironmental.com |  | <h1 style="text-align: center;">Borehole Log</h1> |  |                  | Borehole No.<br><h2 style="text-align: center;">WS2</h2> Sheet 2 of 2 |                 |
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |  | Project No. LP2265                                |  | Co-ords: -       |                                                                       | Hole Type<br>WS |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |  | Level:                                            |  | Scale<br>1:20    |                                                                       |                 |
| Client: Boklok Housing                                                                                                                                                                                           |  | Dates: 22/06/2020 - 22/06/2020                    |  | Logged By<br>ADC |                                                                       |                 |

| Well | Water Strikes | Samples and In Situ Testing |                      |                          | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                      |   |
|------|---------------|-----------------------------|----------------------|--------------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type                 | Results                  |           |           |        |                                                                                                                                          |   |
| Well |               | 4.00                        |                      | N=47<br>(2,4/8,11,14,14) | 4.30      |           | Legend | Highly weathered off white mottled pale orange CHALK recovered as silty gravel. Gravel is fine to coarse, medium density chalk. Grade Dc |   |
|      | 4.50          | D                           |                      |                          |           |           |        |                                                                                                                                          |   |
|      | 5.00          |                             | N=42 (4,6/7,12,15,8) |                          |           | 5         |        |                                                                                                                                          |   |
|      | 5.80          | D                           |                      |                          |           |           |        |                                                                                                                                          |   |
|      |               | 6.00                        |                      | N=40<br>(6,8/5,10,10,15) | 6.00      |           |        | <i>Sample slightly damp to the touch at 6.0m</i><br>End of borehole at 6.00 m                                                            | 6 |
|      |               |                             |                      |                          |           |           |        |                                                                                                                                          | 7 |
|      |               |                             |                      |                          |           |           |        |                                                                                                                                          | 8 |

**Remarks**  
 Borehole remained stable throughout. Groundwater monitoring well was installed comprising a raised steel cover over 1.0m of plain 63mm diameter pipe over 2.0m of slotted pipe. The slotted pipe was surrounded with shingle whilst the plain pipe was surrounded with bentonite to form a seal. The remainder of the borehole from 3.0m to 6.0m was backfilled with arisings.

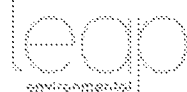


|                                                                                                                                                                                                                  |  |  |  |                                                   |  |                  |  |                                                          |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------|--|------------------|--|----------------------------------------------------------|--|
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| Project Name: Elm Grove Road, Littlehampton                                                                                                                                                                      |  |  |  | Project No.<br>LP2265                             |  | Co-ords: -       |  | Sheet 1 of 2<br>Hole Type<br>WS                          |  |
| Location: Elm Grove Road, Littlehampton, West Sussex                                                                                                                                                             |  |  |  | Level:                                            |  | Scale<br>1:20    |  |                                                          |  |
| Client: Boklok Housing                                                                                                                                                                                           |  |  |  | Dates: 22/06/2020 - 22/06/2020                    |  | Logged By<br>ADC |  |                                                          |  |

| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m)                                                                         | Level (m)                                                                           | Legend                                                                                                                             | Stratum Description                                                                                                                                                 |                                                                                                 |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                    |               | Depth (m)                   | Type | Results            |                                                                                   |                                                                                     |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|  |               | 0.15                        | ES   |                    | 0.30                                                                              |    | Grass over light orangish brown gravelly reworked silty TOPSOIL. Gravel is fine to medium flint and occasional brick and concrete. | <div style="text-align: center;">1</div> <div style="text-align: center;">2</div> <div style="text-align: center;">3</div> <div style="text-align: center;">4</div> |                                                                                                 |
|                                                                                    |               |                             |      |                    |                                                                                   |                                                                                     |                                                   |                                                                                                                                                                     | Firm orangish brown slightly sandy very silty CLAY with occasional coarse rounded flint gravel. |
|                                                                                    |               |                             |      |                    |  | Becoming sandier with depth.                                                        |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               | 1.00                        |      | N=12 (2,2/3,3,3,3) |                                                                                   |    | Hand Pen at 1.3m = 230kPa                                                                                                          |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               | 1.20                        | D    |                    | 1.55                                                                              |   |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               |                             |      |                    |                                                                                   |                                                                                     |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               | 1.70                        | D    |                    |                                                                                   |                                                                                     |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               |                             | 2.00 |                    | N=37 (6,10/10,8,10,9)                                                             |                                                                                     |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               | 2.50                        | D    |                    |                                                                                   |                                                                                     |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               | 3.00                        |      | N=8 (2,2/2,2,2,2)  |                                                                                   |  | Gravel more abundant below 3.0m                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               | 3.50                        | D    |                    |                                                                                   |                                                                                     |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |
|                                                                                    |               | 4.00                        |      | N=6 (1,1/1,1,2,2)  |                                                                                   |                                                                                     |                                                                                                                                    |                                                                                                                                                                     |                                                                                                 |

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|                                                                                                                                                                                                                                                                                                             |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Remarks<br>Borehole remained stable throughout. Groundwater monitoring well was installed comprising a raised steel cover over 1.0m of plain 63mm diameter pipe over 5.0m of slotted pipe. The slotted pipe was surrounded with shingle whilst the plain pipe was surrounded with bentonite to form a seal. |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|



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# Borehole Log

Borehole No.

**WS3**

Sheet 2 of 2

Project Name: Elmgrove Road, Littlehampton

Project No.  
LP2265

Co-ords: -

Hole Type  
WS

Location: ElmGrove Road, Littlehampton, West Sussex

Level:

Scale  
1:20

Client: Boklok Housing

Dates: 22/06/2020 - 22/06/2020

Logged By  
ADC

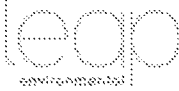
| Well | Water Strikes | Samples and In Situ Testing |      |                            | Depth (m) | Level (m) | Legend | Stratum Description |   |
|------|---------------|-----------------------------|------|----------------------------|-----------|-----------|--------|---------------------|---|
|      |               | Depth (m)                   | Type | Results                    |           |           |        |                     |   |
|      |               | 4.10                        |      |                            | 4.10      |           |        |                     |   |
|      |               | 4.50                        | D    |                            |           |           |        |                     |   |
|      |               | 5.00                        |      | N=43<br>(2,3/4,12,17,10)   | 5.00      |           |        |                     | 5 |
|      |               | 5.50                        | D    |                            |           |           |        |                     |   |
|      |               | 6.00                        |      | N=52<br>(9,10/14,12,11,15) | 6.00      |           |        |                     | 6 |
|      |               |                             |      |                            |           |           |        |                     | 7 |
|      |               |                             |      |                            |           |           |        |                     | 8 |

## Remarks

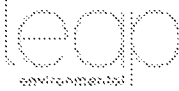
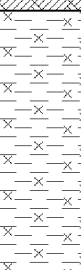
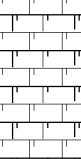
Borehole remained stable throughout. Groundwater monitoring well was installed comprising a raised steel cover over 1.0m of plain 63mm diameter pipe over 5.0m of slotted pipe. The slotted pipe was surrounded with shingle whilst the plain pipe was surrounded with bentonite to form a seal.





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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------|------|---------------------------|--------------------------------|-----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                             |      |                           | Project No.<br>LP2265          |           | Co-ords: -                                                                        |                                                                                                                                                             | Hole Type<br>WS |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                             |      |                           | Level:                         |           | Scale<br>1:20                                                                     |                                                                                                                                                             |                 |  |
| Client: Boklok Housing                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                             |      |                           | Dates: 22/06/2020 - 22/06/2020 |           | Logged By<br>ADC                                                                  |                                                                                                                                                             |                 |  |
| Well                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Water Strikes | Samples and In Situ Testing |      |                           | Depth (m)                      | Level (m) | Legend                                                                            | Stratum Description                                                                                                                                         |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | Depth (m)                   | Type | Results                   |                                |           |                                                                                   |                                                                                                                                                             |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                |               |                             |      |                           | 4.10                           |           |  | Off white relicly structured low density CHALK recovered as silty gravel. Gravel is fine to coarse low to medium density chalk and occasional coarse flint. |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                             |      |                           |                                |           |                                                                                   |                                                                                                                                                             |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                             |      |                           |                                |           |                                                                                   |                                                                                                                                                             |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | 4.50                        | D    |                           |                                |           |                                                                                   |                                                                                                                                                             |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | 5.00                        |      | N=51<br>(8,9/14,10,12,15) | 5.00                           |           |                                                                                   | End of borehole at 5.00 m                                                                                                                                   | 5               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                             |      |                           |                                |           |                                                                                   |                                                                                                                                                             | 6               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                             |      |                           |                                |           |                                                                                   |                                                                                                                                                             | 7               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                             |      |                           |                                |           |                                                                                   |                                                                                                                                                             | 8               |  |
| <b>Remarks</b><br>Borehole was terinated at 5.0m where the standar penetromter test refused. The borehole remained stable throughout. Groundwater monitoring well was installed comprising a raised steel cover over 1.0m of plain 63mm diameter pipe over 2.0m of slotted pipe. The slotted pipe was surrounded with shingle whilst the plain pipe was surrounded with bentonite to form a seal. The remainder of the borehole from 3.0m to 5.0m was backfilled with arisings. |               |                             |      |                           |                                |           |                                                                                   |                                                                                                                                                             |                 |  |



|  Leap Environmental Ltd<br>The Atrium, Curtis Road<br>Dorking, Surrey RH4 1XA<br>Tel: 01306 646510<br>www.leapenvironmental.com |                                                                                    |                             |      | <h1>Borehole Log</h1>          |           |                  |                                                                                     | Borehole No.<br><b>WS5</b><br>Sheet 1 of 1                                                                             |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------|------|--------------------------------|-----------|------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| Project Name: Elmgrove Road, Littlehampton                                                                                                                                                                       |                                                                                    |                             |      | Project No. LP2265             |           | Co-ords: -       |                                                                                     | Hole Type<br>WS                                                                                                        |  |
| Location: ElmGrove Road, Littlehampton, West Sussex                                                                                                                                                              |                                                                                    |                             |      | Level:                         |           | Scale<br>1:20    |                                                                                     |                                                                                                                        |  |
| Client: Boklok Housing                                                                                                                                                                                           |                                                                                    |                             |      | Dates: 22/06/2020 - 22/06/2020 |           | Logged By<br>ADC |                                                                                     |                                                                                                                        |  |
| Well                                                                                                                                                                                                             | Water Strikes                                                                      | Samples and In Situ Testing |      |                                | Depth (m) | Level (m)        | Legend                                                                              | Stratum Description                                                                                                    |  |
|                                                                                                                                                                                                                  |                                                                                    | Depth (m)                   | Type | Results                        |           |                  |                                                                                     |                                                                                                                        |  |
|                                                                                                                                |  | 0.20                        | ES   |                                | 0.40      |                  |    | Grass over gravelly silty reworked TOPSOIL. Gravel is flint, brick, concrete and chalk.                                |  |
|                                                                                                                                                                                                                  |                                                                                    |                             |      |                                |           |                  |    | Dark orangish brown slightly silty CLAY with rare flint gravel.                                                        |  |
|                                                                                                                                                                                                                  |                                                                                    | 1.00                        |      | N=28 (4,4/5,8,7,8)             | 1.10      |                  |   | Medium dense orangish brown slightly clayey SAND with rare coarse flint gravel.                                        |  |
|                                                                                                                                                                                                                  |                                                                                    | 1.50                        | D    |                                |           |                  |  | <u>Becoming clayey with depth.</u>                                                                                     |  |
|                                                                                                                                                                                                                  |                                                                                    | 2.00                        |      | N=8 (1,1/0,2,2,4)              | 2.40      |                  |  | Weathered off yellowish white CHALK recovered as silty gravel. Gravel is fine to coarse medium density chalk. Grade Dc |  |
|                                                                                                                                                                                                                  |                                                                                    | 2.50                        | D    |                                |           |                  |                                                                                     |                                                                                                                        |  |
|                                                                                                                                                                                                                  |                                                                                    | 3.00                        |      | N=22 (4,6/9,6,4,3)             | 3.00      |                  | End of borehole at 3.00 m                                                           |                                                                                                                        |  |
| Remarks<br>Borehole remained dry and stable and was backfilled with arisings on completion                                                                                                                       |                                                                                    |                             |      |                                |           |                  |                                                                                     |                                                                                                                        |  |



## APPENDIX G - Field Monitoring Records

Field Monitoring Records

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## APPENDIX H - Chemical Laboratory Test Results

Chemical Laboratory  
Test Results



2683



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## THE ENVIRONMENTAL LABORATORY LTD

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**Analytical Report Number:** 20-28607

**Issue:** 1

**Date of Issue:** 02/07/2020

**Contact:** Martin Weil

**Customer Details:** Leap Environmental Ltd  
The Atrium  
Curtis Road  
Dorking  
Surrey RH4 1X4

**Quotation No:** Q14-00063

**Order No:** LPO-2136

**Customer Reference:** LP2265

**Date Received:** 24/06/2020

**Date Approved:** 02/07/2020

**Details:** Land off Elmgrove Road, Littlehampton

**Approved by:**

Mike Varley, Technical Manager

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Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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## Sample Summary

Report No.: 20-28607, issue number 1

| Elab No. | Client's Ref. | Date Sampled | Date Scheduled | Description       | Deviations |
|----------|---------------|--------------|----------------|-------------------|------------|
| 206931   | TP1 0.20      | 22/06/2020   | 25/06/2020     | Sandy silty loam  |            |
| 206932   | TP1 0.60      | 22/06/2020   | 25/06/2020     | Silty clayey loam |            |
| 206933   | TP2 0.15      | 22/06/2020   | 25/06/2020     | Sandy silty loam  |            |
| 206934   | TP2 0.80      | 22/06/2020   | 25/06/2020     |                   |            |
| 206935   | TP3 0.20      | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206936   | TP3 0.60      | 22/06/2020   | 25/06/2020     | Silty clayey loam |            |
| 206937   | TP4 1.20      | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206938   | TP5 0.30      | 22/06/2020   | 25/06/2020     | Sandy silty loam  |            |
| 206939   | TP5 0.50      | 22/06/2020   | 25/06/2020     |                   |            |
| 206940   | TP6 0.50      | 22/06/2020   | 25/06/2020     | Silty loam        | c          |
| 206941   | TP7 1.50      | 22/06/2020   | 25/06/2020     | Silty loam        | c          |
| 206942   | TP8 1.50      | 22/06/2020   | 25/06/2020     | Silty loam        | c          |
| 206943   | TP9 1.50      | 22/06/2020   | 25/06/2020     | Silty loam        | c          |
| 206944   | TP10 0.80     | 22/06/2020   | 25/06/2020     | Silty loam        | c          |
| 206945   | TP11 0.50     | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206946   | TP11 1.50     | 22/06/2020   | 25/06/2020     | Silty clayey loam |            |
| 206947   | TP12 1.80     | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206948   | WS2 0.20      | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206949   | WS3 0.15      | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206950   | WS4 0.10      | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206951   | WS4 0.40      | 22/06/2020   | 25/06/2020     | Silty loam        |            |
| 206952   | WS5 0.20      | 22/06/2020   | 25/06/2020     | Silty loam        |            |



## Results Summary

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|                                       |       |          |      |                        |            |            |            |            |
|---------------------------------------|-------|----------|------|------------------------|------------|------------|------------|------------|
| Report Ref: 20-20001, Issue Number: 1 |       |          |      | ELAB Reference         | 206931     | 206932     | 206933     | 206935     |
|                                       |       |          |      | Customer Reference     |            |            |            |            |
|                                       |       |          |      | Sample ID              |            |            |            |            |
|                                       |       |          |      | Sample Type            | SOIL       | SOIL       | SOIL       | SOIL       |
|                                       |       |          |      | Sample Location        | TP1        | TP1        | TP2        | TP3        |
|                                       |       |          |      | Sample Depth (m)       | 0.20       | 0.60       | 0.15       | 0.20       |
|                                       |       |          |      | Sampling Date          | 22/06/2020 | 22/06/2020 | 22/06/2020 | 22/06/2020 |
| Determinand                           | Codes | Units    | LOD  |                        |            |            |            |            |
| Soil sample preparation parameters    |       |          |      |                        |            |            |            |            |
| Material removed                      | N     | %        | 0.1  | 68.9                   | < 0.1      | 63.0       | 63.0       |            |
| Description of Inert material removed | N     |          | 0    | Stones, brick, clinker | None       | Stones     | Stones     |            |
| Metals                                |       |          |      |                        |            |            |            |            |
| Arsenic                               | M     | mg/kg    | 1    | 13.3                   | 13.3       | 9.6        | 9.7        |            |
| Cadmium                               | M     | mg/kg    | 0.5  | 0.5                    | < 0.5      | < 0.5      | 0.6        |            |
| Chromium                              | M     | mg/kg    | 5    | 25.1                   | 33.8       | 19.8       | 19.4       |            |
| Copper                                | M     | mg/kg    | 5    | 21.0                   | 21.6       | 20.0       | 27.6       |            |
| Lead                                  | M     | mg/kg    | 5    | 108                    | 19.2       | 39.2       | 60.7       |            |
| Mercury                               | M     | mg/kg    | 0.5  | < 0.5                  | < 0.5      | < 0.5      | < 0.5      |            |
| Nickel                                | M     | mg/kg    | 5    | 20.8                   | 23.9       | 16.0       | 15.0       |            |
| Selenium                              | M     | mg/kg    | 1    | < 1.0                  | < 1.0      | < 1.0      | < 1.0      |            |
| Zinc                                  | M     | mg/kg    | 5    | 287                    | 66.5       | 82.0       | 154        |            |
| Inorganics                            |       |          |      |                        |            |            |            |            |
| Hexavalent Chromium                   | N     | mg/kg    | 0.8  | < 0.8                  | < 0.8      | < 0.8      | < 0.8      |            |
| Miscellaneous                         |       |          |      |                        |            |            |            |            |
| Acid Neutralisation Capacity          | N     | mol/kg   | 0.1  | n/t                    | n/t        | n/t        | n/t        |            |
| Loss On Ignition (450°C)              | M     | %        | 0.01 | n/t                    | n/t        | n/t        | n/t        |            |
| pH                                    | M     | pH units | 0.1  | 8.6                    | 8.0        | 7.9        | 8.2        |            |
| Total Organic Carbon                  | N     | %        | 0.01 | 1.5                    | 0.28       | 2.6        | 3.8        |            |
| Polyaromatic hydrocarbons             |       |          |      |                        |            |            |            |            |
| Naphthalene                           | M     | mg/kg    | 0.1  | 0.2                    | < 0.1      | 1.1        | 1.1        |            |
| Acenaphthylene                        | M     | mg/kg    | 0.1  | 1.1                    | < 0.1      | 3.9        | 5.1        |            |
| Acenaphthene                          | M     | mg/kg    | 0.1  | 0.4                    | < 0.1      | 3.1        | 4.3        |            |
| Fluorene                              | M     | mg/kg    | 0.1  | 0.3                    | < 0.1      | 1.7        | 3.0        |            |
| Phenanthrene                          | M     | mg/kg    | 0.1  | 6.7                    | < 0.1      | 70.5       | 117        |            |
| Anthracene                            | M     | mg/kg    | 0.1  | 2.6                    | < 0.1      | 20.6       | 33.7       |            |
| Fluoranthene                          | M     | mg/kg    | 0.1  | 34.5                   | < 0.1      | 207        | 202        |            |
| Pyrene                                | M     | mg/kg    | 0.1  | 35.2                   | < 0.1      | 168        | 166        |            |
| Benzo(a)anthracene                    | M     | mg/kg    | 0.1  | 20.8                   | < 0.1      | 85.4       | 82.9       |            |
| Chrysene                              | M     | mg/kg    | 0.1  | 21.1                   | < 0.1      | 89.8       | 87.2       |            |
| Benzo(b)fluoranthene                  | M     | mg/kg    | 0.1  | 20.2                   | < 0.1      | 81.5       | 78.1       |            |
| Benzo(k)fluoranthene                  | M     | mg/kg    | 0.1  | 18.1                   | < 0.1      | 69.4       | 67.3       |            |
| Benzo(a)pyrene                        | M     | mg/kg    | 0.1  | 20.9                   | < 0.1      | 77.8       | 75.5       |            |
| Indeno(1,2,3-cd)pyrene                | M     | mg/kg    | 0.1  | 14.7                   | < 0.1      | 62.6       | 57.7       |            |
| Dibenzo(a,h)anthracene                | M     | mg/kg    | 0.1  | 3.6                    | < 0.1      | 19.3       | 14.5       |            |
| Benzo[g,h,i]perylene                  | M     | mg/kg    | 0.1  | 13.7                   | < 0.1      | 52.4       | 60.7       |            |
| Total PAH(16)                         | M     | mg/kg    | 0.4  | 214                    | < 0.4      | 1010       | 1060       |            |
| Total PAH (Including Coronene GC-FID) | N     | mg/kg    | 2    | n/t                    | n/t        | n/t        | n/t        |            |
| BTEX                                  |       |          |      |                        |            |            |            |            |
| Total BTEX                            | N     | mg/kg    | 0.01 | n/t                    | n/t        | n/t        | n/t        |            |
| Total Petroleum Hydrocarbons          |       |          |      |                        |            |            |            |            |
| Mineral Oil                           | M     | mg/kg    | 5    | n/t                    | n/t        | n/t        | n/t        |            |
| PCB (ICES 7 congeners)                |       |          |      |                        |            |            |            |            |
| PCB (Total of 7 Congeners)            | M     | mg/kg    | 0.03 | n/t                    | n/t        | n/t        | n/t        |            |



## Results Summary

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|                                           |              |              |            |            |            |
|-------------------------------------------|--------------|--------------|------------|------------|------------|
| ELAB Reference                            | 206936       | 206937       | 206938     | 206940     | 206941     |
| Customer Reference                        |              |              |            |            |            |
| Sample ID                                 |              |              |            |            |            |
| Sample Type                               | SOIL         | SOIL         | SOIL       | SOIL       | SOIL       |
| Sample Location                           | TP3          | TP4          | TP5        | TP6        | TP7        |
| Sample Depth (m)                          | 0.60         | 1.20         | 0.30       | 0.50       | 1.50       |
| Sampling Date                             | 22/06/2020   | 22/06/2020   | 22/06/2020 | 22/06/2020 | 22/06/2020 |
| <b>Determinand</b>                        | <b>Codes</b> | <b>Units</b> | <b>LOD</b> |            |            |
| <b>Soil sample preparation parameters</b> |              |              |            |            |            |
| Material removed                          | N            | %            | 0.1        | < 0.1      | 18.6       |
| Description of Inert material removed     | N            |              | 0          | None       | Stones     |
| <b>Metals</b>                             |              |              |            |            |            |
| Arsenic                                   | M            | mg/kg        | 1          | 11.2       | 11.0       |
| Cadmium                                   | M            | mg/kg        | 0.5        | < 0.5      | < 0.5      |
| Chromium                                  | M            | mg/kg        | 5          | 29.3       | 25.0       |
| Copper                                    | M            | mg/kg        | 5          | 18.7       | 17.7       |
| Lead                                      | M            | mg/kg        | 5          | 16.1       | 51.6       |
| Mercury                                   | M            | mg/kg        | 0.5        | < 0.5      | < 0.5      |
| Nickel                                    | M            | mg/kg        | 5          | 21.1       | 18.0       |
| Selenium                                  | M            | mg/kg        | 1          | < 1.0      | < 1.0      |
| Zinc                                      | M            | mg/kg        | 5          | 54.5       | 76.7       |
| <b>Inorganics</b>                         |              |              |            |            |            |
| Hexavalent Chromium                       | N            | mg/kg        | 0.8        | < 0.8      | < 0.8      |
| <b>Miscellaneous</b>                      |              |              |            |            |            |
| Acid Neutralisation Capacity              | N            | mol/kg       | 0.1        | n/t        | n/t        |
| Loss On Ignition (450°C)                  | M            | %            | 0.01       | n/t        | n/t        |
| pH                                        | M            | pH units     | 0.1        | 7.7        | 8.9        |
| Total Organic Carbon                      | N            | %            | 0.01       | 0.49       | 1.2        |
| <b>Polyaromatic hydrocarbons</b>          |              |              |            |            |            |
| Naphthalene                               | M            | mg/kg        | 0.1        | < 0.1      | < 0.1      |
| Acenaphthylene                            | M            | mg/kg        | 0.1        | < 0.1      | < 0.1      |
| Acenaphthene                              | M            | mg/kg        | 0.1        | < 0.1      | < 0.1      |
| Fluorene                                  | M            | mg/kg        | 0.1        | < 0.1      | < 0.1      |
| Phenanthrene                              | M            | mg/kg        | 0.1        | < 0.1      | 0.1        |
| Anthracene                                | M            | mg/kg        | 0.1        | < 0.1      | < 0.1      |
| Fluoranthene                              | M            | mg/kg        | 0.1        | 0.1        | 0.4        |
| Pyrene                                    | M            | mg/kg        | 0.1        | < 0.1      | 0.3        |
| Benzo(a)anthracene                        | M            | mg/kg        | 0.1        | < 0.1      | 0.3        |
| Chrysene                                  | M            | mg/kg        | 0.1        | < 0.1      | 0.3        |
| Benzo(b)fluoranthene                      | M            | mg/kg        | 0.1        | < 0.1      | 0.2        |
| Benzo(k)fluoranthene                      | M            | mg/kg        | 0.1        | < 0.1      | 0.2        |
| Benzo(a)pyrene                            | M            | mg/kg        | 0.1        | < 0.1      | 0.3        |
| Indeno(1,2,3-cd)pyrene                    | M            | mg/kg        | 0.1        | < 0.1      | 0.2        |
| Dibenzo(a,h)anthracene                    | M            | mg/kg        | 0.1        | < 0.1      | < 0.1      |
| Benzo[g,h,i]perylene                      | M            | mg/kg        | 0.1        | < 0.1      | 0.2        |
| Total PAH(16)                             | M            | mg/kg        | 0.4        | < 0.4      | 2.5        |
| Total PAH (Including Coronene GC-FID)     | N            | mg/kg        | 2          | n/t        | n/t        |
| <b>BTEX</b>                               |              |              |            |            |            |
| Total BTEX                                | N            | mg/kg        | 0.01       | n/t        | n/t        |
| <b>Total Petroleum Hydrocarbons</b>       |              |              |            |            |            |
| Mineral Oil                               | M            | mg/kg        | 5          | n/t        | n/t        |
| <b>PCB (ICES 7 congeners)</b>             |              |              |            |            |            |
| PCB (Total of 7 Congeners)                | M            | mg/kg        | 0.03       | n/t        | n/t        |

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193





## Results Summary

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|                                           |              |              |            |            |            |
|-------------------------------------------|--------------|--------------|------------|------------|------------|
| ELAB Reference                            | 206942       | 206943       | 206944     | 206945     | 206946     |
| Customer Reference                        |              |              |            |            |            |
| Sample ID                                 |              |              |            |            |            |
| Sample Type                               | SOIL         | SOIL         | SOIL       | SOIL       | SOIL       |
| Sample Location                           | TP8          | TP9          | TP10       | TP11       | TP11       |
| Sample Depth (m)                          | 1.50         | 1.50         | 0.80       | 0.50       | 1.50       |
| Sampling Date                             | 22/06/2020   | 22/06/2020   | 22/06/2020 | 22/06/2020 | 22/06/2020 |
| <b>Determinand</b>                        | <b>Codes</b> | <b>Units</b> | <b>LOD</b> |            |            |
| <b>Soil sample preparation parameters</b> |              |              |            |            |            |
| Material removed                          | N            | %            | 0.1        | 21.4       | 16.4       |
| Description of Inert material removed     | N            |              | 0          | Stones     | Stones     |
| <b>Metals</b>                             |              |              |            |            |            |
| Arsenic                                   | M            | mg/kg        | 1          | 9.1        | 11.5       |
| Cadmium                                   | M            | mg/kg        | 0.5        | < 0.5      | < 0.5      |
| Chromium                                  | M            | mg/kg        | 5          | 21.3       | 28.1       |
| Copper                                    | M            | mg/kg        | 5          | 22.0       | 25.7       |
| Lead                                      | M            | mg/kg        | 5          | 40.5       | 79.4       |
| Mercury                                   | M            | mg/kg        | 0.5        | < 0.5      | < 0.5      |
| Nickel                                    | M            | mg/kg        | 5          | 15.4       | 19.6       |
| Selenium                                  | M            | mg/kg        | 1          | < 1.0      | < 1.0      |
| Zinc                                      | M            | mg/kg        | 5          | 66.3       | 119        |
| <b>Inorganics</b>                         |              |              |            |            |            |
| Hexavalent Chromium                       | N            | mg/kg        | 0.8        | < 0.8      | < 0.8      |
| <b>Miscellaneous</b>                      |              |              |            |            |            |
| Acid Neutralisation Capacity              | N            | mol/kg       | 0.1        | n/t        | n/t        |
| Loss On Ignition (450°C)                  | M            | %            | 0.01       | n/t        | n/t        |
| pH                                        | M            | pH units     | 0.1        | 8.1        | 8.4        |
| Total Organic Carbon                      | N            | %            | 0.01       | 1.2        | 1.5        |
| <b>Polyaromatic hydrocarbons</b>          |              |              |            |            |            |
| Naphthalene                               | M            | mg/kg        | 0.1        | c < 0.1    | c 0.3      |
| Acenaphthylene                            | M            | mg/kg        | 0.1        | c < 0.1    | c 0.9      |
| Acenaphthene                              | M            | mg/kg        | 0.1        | c < 0.1    | c 2.2      |
| Fluorene                                  | M            | mg/kg        | 0.1        | c < 0.1    | c 2.3      |
| Phenanthrene                              | M            | mg/kg        | 0.1        | c 0.1      | c 52.3     |
| Anthracene                                | M            | mg/kg        | 0.1        | c < 0.1    | c 14.8     |
| Fluoranthene                              | M            | mg/kg        | 0.1        | c 0.3      | c 69.1     |
| Pyrene                                    | M            | mg/kg        | 0.1        | c 0.3      | c 54.1     |
| Benzo(a)anthracene                        | M            | mg/kg        | 0.1        | c 0.2      | c 36.3     |
| Chrysene                                  | M            | mg/kg        | 0.1        | c 0.2      | c 35.9     |
| Benzo(b)fluoranthene                      | M            | mg/kg        | 0.1        | c 0.3      | c 26.9     |
| Benzo(k)fluoranthene                      | M            | mg/kg        | 0.1        | c 0.3      | c 25.9     |
| Benzo(a)pyrene                            | M            | mg/kg        | 0.1        | c 0.3      | c 27.0     |
| Indeno(1,2,3-cd)pyrene                    | M            | mg/kg        | 0.1        | c 0.2      | c 17.1     |
| Dibenzo(a,h)anthracene                    | M            | mg/kg        | 0.1        | c < 0.1    | c 5.5      |
| Benzo[g,h,i]perylene                      | M            | mg/kg        | 0.1        | c 0.3      | c 15.1     |
| Total PAH(16)                             | M            | mg/kg        | 0.4        | c 2.8      | c 386      |
| Total PAH (Including Coronene GC-FID)     | N            | mg/kg        | 2          | n/t        | n/t        |
| <b>BTEX</b>                               |              |              |            |            |            |
| Total BTEX                                | N            | mg/kg        | 0.01       | n/t        | n/t        |
| <b>Total Petroleum Hydrocarbons</b>       |              |              |            |            |            |
| Mineral Oil                               | M            | mg/kg        | 5          | n/t        | n/t        |
| <b>PCB (ICES 7 congeners)</b>             |              |              |            |            |            |
| PCB (Total of 7 Congeners)                | M            | mg/kg        | 0.03       | n/t        | n/t        |

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## Results Summary

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|                                       |       |          |      |            |             |            |            |            |
|---------------------------------------|-------|----------|------|------------|-------------|------------|------------|------------|
| ELAB Reference                        |       |          |      | 206947     | 206948      | 206949     | 206950     | 206951     |
| Customer Reference                    |       |          |      |            |             |            |            |            |
| Sample ID                             |       |          |      |            |             |            |            |            |
| Sample Type                           |       |          |      | SOIL       | SOIL        | SOIL       | SOIL       | SOIL       |
| Sample Location                       |       |          |      | TP12       | WS2         | WS3        | WS4        | WS4        |
| Sample Depth (m)                      |       |          |      | 1.80       | 0.20        | 0.15       | 0.10       | 0.40       |
| Sampling Date                         |       |          |      | 22/06/2020 | 22/06/2020  | 22/06/2020 | 22/06/2020 | 22/06/2020 |
| Determinand                           | Codes | Units    | LOD  |            |             |            |            |            |
| Soil sample preparation parameters    |       |          |      |            |             |            |            |            |
| Material removed                      | N     | %        | 0.1  | 7.4        | 38.5        | < 0.1      | 12.5       | < 0.1      |
| Description of Inert material removed | N     |          | 0    | Stones     | Sones,brick | None       | Stones     | None       |
| Metals                                |       |          |      |            |             |            |            |            |
| Arsenic                               | M     | mg/kg    | 1    | 10.4       | 9.8         | 8.1        | 9.6        | 8.6        |
| Cadmium                               | M     | mg/kg    | 0.5  | < 0.5      | < 0.5       | < 0.5      | < 0.5      | < 0.5      |
| Chromium                              | M     | mg/kg    | 5    | 21.6       | 20.5        | 17.9       | 18.1       | 18.8       |
| Copper                                | M     | mg/kg    | 5    | 22.7       | 18.0        | 17.3       | 22.9       | 20.1       |
| Lead                                  | M     | mg/kg    | 5    | 37.4       | 33.8        | 22.1       | 45.5       | 26.5       |
| Mercury                               | M     | mg/kg    | 0.5  | < 0.5      | < 0.5       | < 0.5      | < 0.5      | < 0.5      |
| Nickel                                | M     | mg/kg    | 5    | 17.5       | 15.8        | 13.4       | 14.3       | 13.9       |
| Selenium                              | M     | mg/kg    | 1    | < 1.0      | < 1.0       | < 1.0      | < 1.0      | < 1.0      |
| Zinc                                  | M     | mg/kg    | 5    | 61.2       | 89.1        | 52.9       | 56.8       | 47.7       |
| Inorganics                            |       |          |      |            |             |            |            |            |
| Hexavalent Chromium                   | N     | mg/kg    | 0.8  | < 0.8      | < 0.8       | < 0.8      | < 0.8      | < 0.8      |
| Miscellaneous                         |       |          |      |            |             |            |            |            |
| Acid Neutralisation Capacity          | N     | mol/kg   | 0.1  | n/t        | n/t         | n/t        | n/t        | n/t        |
| Loss On Ignition (450°C)              | M     | %        | 0.01 | n/t        | n/t         | n/t        | n/t        | n/t        |
| pH                                    | M     | pH units | 0.1  | 7.8        | 8.6         | 8.3        | 8.0        | 8.1        |
| Total Organic Carbon                  | N     | %        | 0.01 | 0.92       | 1.2         | 0.67       | 1.5        | 0.78       |
| Polyaromatic hydrocarbons             |       |          |      |            |             |            |            |            |
| Naphthalene                           | M     | mg/kg    | 0.1  | < 0.1      | 0.1         | < 0.1      | 0.2        | < 0.1      |
| Acenaphthylene                        | M     | mg/kg    | 0.1  | < 0.1      | 0.8         | 0.1        | 2.3        | 0.2        |
| Acenaphthene                          | M     | mg/kg    | 0.1  | < 0.1      | 0.4         | < 0.1      | 0.5        | < 0.1      |
| Fluorene                              | M     | mg/kg    | 0.1  | < 0.1      | 0.3         | < 0.1      | 0.4        | < 0.1      |
| Phenanthrene                          | M     | mg/kg    | 0.1  | < 0.1      | 6.7         | 0.4        | 8.9        | < 0.1      |
| Anthracene                            | M     | mg/kg    | 0.1  | < 0.1      | 2.3         | 0.2        | 3.5        | < 0.1      |
| Fluoranthene                          | M     | mg/kg    | 0.1  | 0.1        | 16.4        | 1.3        | 23.6       | 0.3        |
| Pyrene                                | M     | mg/kg    | 0.1  | < 0.1      | 15.5        | 1.2        | 22.7       | 0.4        |
| Benzo(a)anthracene                    | M     | mg/kg    | 0.1  | < 0.1      | 9.5         | 1.0        | 18.5       | 0.3        |
| Chrysene                              | M     | mg/kg    | 0.1  | < 0.1      | 9.8         | 1.1        | 16.0       | 0.2        |
| Benzo(b)fluoranthene                  | M     | mg/kg    | 0.1  | < 0.1      | 9.8         | 1.6        | 17.1       | 0.2        |
| Benzo(k)fluoranthene                  | M     | mg/kg    | 0.1  | < 0.1      | 9.5         | 1.1        | 15.0       | 0.3        |
| Benzo(a)pyrene                        | M     | mg/kg    | 0.1  | < 0.1      | 10.3        | 1.3        | 17.2       | 0.4        |
| Indeno(1,2,3-cd)pyrene                | M     | mg/kg    | 0.1  | < 0.1      | 8.1         | 1.0        | 11.8       | 0.3        |
| Dibenzo(a,h)anthracene                | M     | mg/kg    | 0.1  | < 0.1      | 2.0         | 0.3        | 3.5        | 0.1        |
| Benzo[g,h,i]perylene                  | M     | mg/kg    | 0.1  | < 0.1      | 8.7         | 1.1        | 10.0       | 0.4        |
| Total PAH(16)                         | M     | mg/kg    | 0.4  | 0.4        | 110         | 11.8       | 171        | 3.3        |
| Total PAH (Including Coronene GC-FID) | N     | mg/kg    | 2    | n/t        | n/t         | n/t        | n/t        | n/t        |
| BTEX                                  |       |          |      |            |             |            |            |            |
| Total BTEX                            | N     | mg/kg    | 0.01 | n/t        | n/t         | n/t        | n/t        | n/t        |
| Total Petroleum Hydrocarbons          |       |          |      |            |             |            |            |            |
| Mineral Oil                           | M     | mg/kg    | 5    | n/t        | n/t         | n/t        | n/t        | n/t        |
| PCB (ICES 7 congeners)                |       |          |      |            |             |            |            |            |
| PCB (Total of 7 Congeners)            | M     | mg/kg    | 0.03 | n/t        | n/t         | n/t        | n/t        | n/t        |

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## Results Summary

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|                    |            |
|--------------------|------------|
| ELAB Reference     | 206952     |
| Customer Reference |            |
| Sample ID          |            |
| Sample Type        | SOIL       |
| Sample Location    | WS5        |
| Sample Depth (m)   | 0.20       |
| Sampling Date      | 22/06/2020 |

| Determinand                               | Codes | Units    | LOD  |        |
|-------------------------------------------|-------|----------|------|--------|
| <b>Soil sample preparation parameters</b> |       |          |      |        |
| Material removed                          | N     | %        | 0.1  | 9.7    |
| Description of Inert material removed     | N     |          | 0    | Stones |
| <b>Metals</b>                             |       |          |      |        |
| Arsenic                                   | M     | mg/kg    | 1    | 9.4    |
| Cadmium                                   | M     | mg/kg    | 0.5  | < 0.5  |
| Chromium                                  | M     | mg/kg    | 5    | 21.1   |
| Copper                                    | M     | mg/kg    | 5    | 17.3   |
| Lead                                      | M     | mg/kg    | 5    | 24.0   |
| Mercury                                   | M     | mg/kg    | 0.5  | < 0.5  |
| Nickel                                    | M     | mg/kg    | 5    | 15.0   |
| Selenium                                  | M     | mg/kg    | 1    | < 1.0  |
| Zinc                                      | M     | mg/kg    | 5    | 59.1   |
| <b>Inorganics</b>                         |       |          |      |        |
| Hexavalent Chromium                       | N     | mg/kg    | 0.8  | < 0.8  |
| <b>Miscellaneous</b>                      |       |          |      |        |
| Acid Neutralisation Capacity              | N     | mol/kg   | 0.1  | n/t    |
| Loss On Ignition (450°C)                  | M     | %        | 0.01 | n/t    |
| pH                                        | M     | pH units | 0.1  | 8.1    |
| Total Organic Carbon                      | N     | %        | 0.01 | 0.62   |
| <b>Polyaromatic hydrocarbons</b>          |       |          |      |        |
| Naphthalene                               | M     | mg/kg    | 0.1  | < 0.1  |
| Acenaphthylene                            | M     | mg/kg    | 0.1  | 0.7    |
| Acenaphthene                              | M     | mg/kg    | 0.1  | 0.6    |
| Fluorene                                  | M     | mg/kg    | 0.1  | 0.3    |
| Phenanthrene                              | M     | mg/kg    | 0.1  | 6.0    |
| Anthracene                                | M     | mg/kg    | 0.1  | 2.7    |
| Fluoranthene                              | M     | mg/kg    | 0.1  | 19.5   |
| Pyrene                                    | M     | mg/kg    | 0.1  | 16.0   |
| Benzo(a)anthracene                        | M     | mg/kg    | 0.1  | 7.2    |
| Chrysene                                  | M     | mg/kg    | 0.1  | 7.5    |
| Benzo(b)fluoranthene                      | M     | mg/kg    | 0.1  | 7.8    |
| Benzo(k)fluoranthene                      | M     | mg/kg    | 0.1  | 6.5    |
| Benzo(a)pyrene                            | M     | mg/kg    | 0.1  | 7.1    |
| Indeno(1,2,3-cd)pyrene                    | M     | mg/kg    | 0.1  | 5.1    |
| Dibenzo(a,h)anthracene                    | M     | mg/kg    | 0.1  | 1.2    |
| Benzo[g,h,i]perylene                      | M     | mg/kg    | 0.1  | 4.8    |
| Total PAH(16)                             | M     | mg/kg    | 0.4  | 93.2   |
| Total PAH (Including Coronene GC-FID)     | N     | mg/kg    | 2    | n/t    |
| <b>BTEX</b>                               |       |          |      |        |
| Total BTEX                                | N     | mg/kg    | 0.01 | n/t    |
| <b>Total Petroleum Hydrocarbons</b>       |       |          |      |        |
| Mineral Oil                               | M     | mg/kg    | 5    | n/t    |
| <b>PCB (ICES 7 congeners)</b>             |       |          |      |        |
| PCB (Total of 7 Congeners)                | M     | mg/kg    | 0.03 | n/t    |

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## WAC Analysis

|                              |  |                                       |         |  |         |                                                                              |                                                               |                          |
|------------------------------|--|---------------------------------------|---------|--|---------|------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------|
| Elab Ref:                    |  | 206946                                |         |  |         | Landfill Waste Acceptance Criteria Limits*                                   |                                                               |                          |
| Sample Date:                 |  | 22/06/2020                            |         |  |         | Inert Waste Landfill                                                         | Stable Non-reactive Hazardous waste in non-hazardous Landfill | Hazardous Waste Landfill |
| Sample ID:                   |  | TP11                                  |         |  |         |                                                                              |                                                               |                          |
| Depth (m)                    |  | 1.5                                   |         |  |         |                                                                              |                                                               |                          |
| Site:                        |  | Land off Elmgrove Road, Littlehampton |         |  |         |                                                                              |                                                               |                          |
|                              |  |                                       |         |  |         |                                                                              |                                                               |                          |
| Determinand                  |  | Code                                  | Units   |  |         |                                                                              |                                                               |                          |
| Total Organic Carbon         |  | N                                     | %       |  | 0.86    | 3                                                                            | 5                                                             | 6                        |
| Loss on Ignition             |  | M                                     | %       |  | 4.1     | --                                                                           | --                                                            | 10                       |
| Total BTEX                   |  | M                                     | mg/kg   |  | < 0.01  | 6                                                                            | --                                                            | --                       |
| Total PCBs (7 congeners)     |  | M                                     | mg/kg   |  | < 0.03  | 1                                                                            | --                                                            | --                       |
| TPH Total WAC                |  | M                                     | mg/kg   |  | 86      | 500                                                                          | --                                                            | --                       |
| Total (of 17) PAHs           |  | N                                     | mg/kg   |  | < 2     | 100                                                                          | --                                                            | --                       |
| pH                           |  | M                                     |         |  | 7.8     | --                                                                           | >6                                                            | --                       |
| Acid Neutralisation Capacity |  | N                                     | mol/kg  |  | < 0.1   | --                                                                           | To evaluate                                                   | To evaluate              |
| Eluate Analysis              |  |                                       | 10:1    |  | 10:1    | Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg |                                                               |                          |
|                              |  |                                       | mg/l    |  | mg/kg   |                                                                              |                                                               |                          |
| Arsenic                      |  | N                                     | < 0.005 |  | < 0.05  | 0.5                                                                          | 2                                                             | 25                       |
| Barium                       |  | N                                     | 0.031   |  | 0.31    | 20                                                                           | 100                                                           | 300                      |
| Cadmium                      |  | N                                     | < 0.001 |  | < 0.01  | 0.04                                                                         | 1                                                             | 5                        |
| Chromium                     |  | N                                     | < 0.005 |  | < 0.05  | 0.5                                                                          | 10                                                            | 70                       |
| Copper                       |  | N                                     | 0.023   |  | 0.23    | 2                                                                            | 50                                                            | 100                      |
| Mercury                      |  | N                                     | < 0.005 |  | < 0.01  | 0.01                                                                         | 0.2                                                           | 2                        |
| Molybdenum                   |  | N                                     | 0.011   |  | 0.11    | 0.5                                                                          | 10                                                            | 30                       |
| Nickel                       |  | N                                     | 0.002   |  | < 0.05  | 0.4                                                                          | 10                                                            | 40                       |
| Lead                         |  | N                                     | < 0.001 |  | < 0.05  | 0.5                                                                          | 10                                                            | 50                       |
| Antimony                     |  | N                                     | < 0.005 |  | < 0.05  | 0.06                                                                         | 0.7                                                           | 5                        |
| Selenium                     |  | N                                     | < 0.005 |  | < 0.05  | 0.1                                                                          | 0.5                                                           | 7                        |
| Zinc                         |  | N                                     | < 0.005 |  | < 0.05  | 4                                                                            | 50                                                            | 200                      |
| Chloride                     |  | N                                     | 5       |  | 51.00   | 800                                                                          | 15000                                                         | 25000                    |
| Fluoride                     |  | N                                     | < 5     |  | < 10    | 10                                                                           | 150                                                           | 500                      |
| Sulphate                     |  | N                                     | 54      |  | 543.00  | 1000                                                                         | 20000                                                         | 50000                    |
| Total Dissolved Solids       |  | N                                     | 245     |  | 2450.00 | 4000                                                                         | 60000                                                         | 100000                   |
| Phenol Index                 |  | N                                     | < 0.01  |  | < 0.10  | 1                                                                            | -                                                             | -                        |
| Dissolved Organic Carbon     |  | N                                     | 22.400  |  | 224.00  | 500                                                                          | 800                                                           | 1000                     |
| Leach Test Information       |  |                                       |         |  |         |                                                                              |                                                               |                          |
| pH                           |  | N                                     | 8.2     |  |         |                                                                              |                                                               |                          |
| Conductivity (uS/cm)         |  | N                                     | 365     |  |         |                                                                              |                                                               |                          |
| Dry mass of test portion (g) |  |                                       | 100.000 |  |         |                                                                              |                                                               |                          |
| Dry Matter (%)               |  |                                       | 81      |  |         |                                                                              |                                                               |                          |
| Moisture (%)                 |  |                                       | 23      |  |         |                                                                              |                                                               |                          |
| Eluent Volume (ml)           |  |                                       | 910     |  |         |                                                                              |                                                               |                          |

Results are expressed on a dry weight basis, after correction for moisture content where applicable

\* Stated limits are for guidance only, and not for conformity assessment.



## Results Summary

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### WAC Analysis

|                               |                                       |             |              |              |                                                                                     |                                                                      |                                 |
|-------------------------------|---------------------------------------|-------------|--------------|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------|
| <b>Elab Ref:</b>              | 206945                                |             |              |              | <b>Landfill Waste Acceptance Criteria Limits*</b>                                   |                                                                      |                                 |
| <b>Sample Date:</b>           | 22/06/2020                            |             |              |              | <b>Inert Waste Landfill</b>                                                         | <b>Stable Non-reactive Hazardous waste in non-hazardous Landfill</b> | <b>Hazardous Waste Landfill</b> |
| <b>Sample ID:</b>             | TP11                                  |             |              |              |                                                                                     |                                                                      |                                 |
| <b>Depth (m)</b>              | 0.5                                   |             |              |              |                                                                                     |                                                                      |                                 |
| <b>Site:</b>                  | Land off Elmgrove Road, Littlehampton |             |              |              |                                                                                     |                                                                      |                                 |
| <b>Determinand</b>            |                                       | <b>Code</b> | <b>Units</b> |              |                                                                                     |                                                                      |                                 |
| Total Organic Carbon          |                                       | N           | %            | 1.20         | 3                                                                                   | 5                                                                    | 6                               |
| Loss on Ignition              |                                       | M           | %            | 4.9          | --                                                                                  | --                                                                   | 10                              |
| Total BTEX                    |                                       | M           | mg/kg        | < 0.01       | 6                                                                                   | --                                                                   | --                              |
| Total PCBs (7 congeners)      |                                       | M           | mg/kg        | < 0.03       | 1                                                                                   | --                                                                   | --                              |
| TPH Total WAC                 |                                       | M           | mg/kg        | 96           | 500                                                                                 | --                                                                   | --                              |
| Total (of 17) PAHs            |                                       | N           | mg/kg        | 14.0         | 100                                                                                 | --                                                                   | --                              |
| pH                            |                                       | M           |              | 8.0          | --                                                                                  | >6                                                                   | --                              |
| Acid Neutralisation Capacity  |                                       | N           | mol/kg       | < 0.1        | --                                                                                  | To evaluate                                                          | To evaluate                     |
| <b>Eluate Analysis</b>        |                                       |             | <b>10:1</b>  | <b>10:1</b>  | <b>Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg</b> |                                                                      |                                 |
|                               |                                       |             | <b>mg/l</b>  | <b>mg/kg</b> |                                                                                     |                                                                      |                                 |
| Arsenic                       |                                       | N           | < 0.005      | < 0.05       | 0.5                                                                                 | 2                                                                    | 25                              |
| Barium                        |                                       | N           | 0.015        | 0.15         | 20                                                                                  | 100                                                                  | 300                             |
| Cadmium                       |                                       | N           | < 0.001      | < 0.01       | 0.04                                                                                | 1                                                                    | 5                               |
| Chromium                      |                                       | N           | < 0.005      | < 0.05       | 0.5                                                                                 | 10                                                                   | 70                              |
| Copper                        |                                       | N           | 0.020        | 0.20         | 2                                                                                   | 50                                                                   | 100                             |
| Mercury                       |                                       | N           | < 0.005      | < 0.01       | 0.01                                                                                | 0.2                                                                  | 2                               |
| Molybdenum                    |                                       | N           | < 0.005      | < 0.05       | 0.5                                                                                 | 10                                                                   | 30                              |
| Nickel                        |                                       | N           | 0.001        | < 0.05       | 0.4                                                                                 | 10                                                                   | 40                              |
| Lead                          |                                       | N           | < 0.001      | < 0.05       | 0.5                                                                                 | 10                                                                   | 50                              |
| Antimony                      |                                       | N           | < 0.005      | < 0.05       | 0.06                                                                                | 0.7                                                                  | 5                               |
| Selenium                      |                                       | N           | < 0.005      | < 0.05       | 0.1                                                                                 | 0.5                                                                  | 7                               |
| Zinc                          |                                       | N           | < 0.005      | < 0.05       | 4                                                                                   | 50                                                                   | 200                             |
| Chloride                      |                                       | N           | < 5          | < 50         | 800                                                                                 | 15000                                                                | 25000                           |
| Fluoride                      |                                       | N           | < 5          | < 10         | 10                                                                                  | 150                                                                  | 500                             |
| Sulphate                      |                                       | N           | 8            | 84.90        | 1000                                                                                | 20000                                                                | 50000                           |
| Total Dissolved Solids        |                                       | N           | 146          | 1460.00      | 4000                                                                                | 60000                                                                | 100000                          |
| Phenol Index                  |                                       | N           | < 0.01       | < 0.10       | 1                                                                                   | -                                                                    | -                               |
| Dissolved Organic Carbon      |                                       | N           | 13.100       | 131.00       | 500                                                                                 | 800                                                                  | 1000                            |
| <b>Leach Test Information</b> |                                       |             |              |              |                                                                                     |                                                                      |                                 |
| pH                            |                                       | N           | 7.9          |              |                                                                                     |                                                                      |                                 |
| Conductivity (uS/cm)          |                                       | N           | 218          |              |                                                                                     |                                                                      |                                 |
| Dry mass of test portion (g)  |                                       |             | 100.000      |              |                                                                                     |                                                                      |                                 |
| Dry Matter (%)                |                                       |             | 91           |              |                                                                                     |                                                                      |                                 |
| Moisture (%)                  |                                       |             | 9            |              |                                                                                     |                                                                      |                                 |
| Eluent Volume (ml)            |                                       |             | 964          |              |                                                                                     |                                                                      |                                 |

Results are expressed on a dry weight basis, after correction for moisture content where applicable

\* Stated limits are for guidance only, and not for conformity assessment.

## Results Summary

Report No.: 20-28607, issue number 1

### Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)  
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

| Elab No | Depth (m) | Clients Reference | Description of Sample Matrix #                            | Asbestos             | Gravimetric Analysis Total | Gravimetric Analysis by ACM Type | Free Fibre Analysis | Total Asbestos |
|---------|-----------|-------------------|-----------------------------------------------------------|----------------------|----------------------------|----------------------------------|---------------------|----------------|
| 206931  | 0.20      | TP1               | Brown sandy soil, stones, concrete, brick, clinker, glass | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206932  | 0.60      | TP1               | Brown sandy soil, stones                                  | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206933  | 0.15      | TP2               | Brown sandy soil, stones, concrete, clinker               | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206935  | 0.20      | TP3               | Brown sandy soil, stones, tar, organics                   | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206936  | 0.60      | TP3               | Brown sandy soil, stones                                  | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206937  | 1.20      | TP4               | Brown sandy soil, stones, concrete, brick                 | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206938  | 0.30      | TP5               | Brown sandy soil, stones, concrete, brick, tar            | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206940  | 0.50      | TP6               | Brown sandy soil, stones, concrete, brick, clinker,       | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206941  | 1.50      | TP7               | Brown sandy soil, stones, clinker, organics               | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206942  | 1.50      | TP8               | Brown sandy soil, stones, wood                            | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206943  | 1.50      | TP9               | Brown sandy soil, stones, concrete, brick, clinker        | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206944  | 0.80      | TP10              | Brown sandy soil, stones, wood                            | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206945  | 0.50      | TP11              | Brown sandy soil, stones, concrete, clinker               | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206946  | 1.50      | TP11              | Brown soil, stones                                        | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206947  | 1.80      | TP12              | Brown soil, stones, clinker                               | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206948  | 0.20      | WS2               | Brown sandy soil, stones, concrete, brick, clinker,       | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206949  | 0.15      | WS3               | Brown sandy soil, stones, concrete, brick, clinker,       | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206950  | 0.10      | WS4               | Brown sandy soil, stones, concrete, clinker, organics     | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206951  | 0.40      | WS4               | Brown sandy soil, stones, clinker, organics               | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |
| 206952  | 0.20      | WS5               | Brown sandy soil, stones, concrete, brick, clinker,       | No asbestos detected | n/t                        | n/t                              | n/t                 | n/t            |

## Method Summary

Report No.: 20-28607, issue number 1

| Parameter                            | Codes | Analysis Undertaken On | Date Tested | Method Number | Technique          |
|--------------------------------------|-------|------------------------|-------------|---------------|--------------------|
| <b>Soil</b>                          |       |                        |             |               |                    |
| Hexavalent chromium                  | N     | As submitted sample    | 26/06/2020  | 110           | Colorimetry        |
| Aqua regia extractable metals        | M     | Air dried sample       | 26/06/2020  | 118           | ICPMS              |
| PAH (GC-FID)                         | M     | As submitted sample    | 26/06/2020  | 133           | GC-FID             |
| Asbestos identification              | U     | Air dried sample       | 01/07/2020  | PMAN          | Microscopy         |
| <b>Leachate</b>                      |       |                        |             |               |                    |
| Arsenic                              | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Cadmium                              | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Chromium                             | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Lead                                 | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Nickel                               | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Copper                               | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Zinc                                 | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Mercury                              | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Selenium                             | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Antimony                             | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Barium                               | N     |                        | 30/06/2020  | 101           | ICPMS              |
| Molybdenum                           | N     |                        | 30/06/2020  | 101           | ICPMS              |
| pH Value                             | N     |                        | 30/06/2020  | 113           | Electrometric      |
| Electrical Conductivity              | N     |                        | 30/06/2020  | 136           | Probe              |
| Dissolved Organic Carbon             | N     |                        | 30/06/2020  | 102           | TOC analyser       |
| Chloride                             | N     |                        | 30/06/2020  | 131           | Ion Chromatography |
| Fluoride                             | N     |                        | 30/06/2020  | 131           | Ion Chromatography |
| Sulphate                             | N     |                        | 30/06/2020  | 131           | Ion Chromatography |
| Total Dissolved Solids               | N     |                        | 30/06/2020  | 144           | Gravimetric        |
| Phenol index                         | N     |                        | 30/06/2020  | 121           | HPLC               |
| <b>WAC Solids analysis</b>           |       |                        |             |               |                    |
| pH Value                             | M     | Air dried sample       | 01/07/2020  | 113           | Electrometric      |
| Total Organic Carbon                 | N     | Air dried sample       | 01/07/2020  | 210           | IR                 |
| Loss on Ignition                     | M     | Air dried sample       | 02/07/2020  | 129           | Gravimetric        |
| Acid Neutralization Capacity to pH 7 | N     | Air dried sample       | 01/07/2020  | NEN 737       | Electrometric      |
| Total BTEX                           | N     | As submitted sample    | 29/06/2020  | 181           | GCMS               |
| Mineral Oil                          | M     | As submitted sample    | 26/06/2020  | 117           | GCFID              |
| Total PCBs (7 congeners)             | M     | Air dried sample       | 29/06/2020  | 120           | GCMS               |
| Total PAH (17)                       | N     | As submitted sample    | 30/06/2020  | 133           | GCFID              |

Tests marked N are not UKAS accredited



## Report Information

Report No.: 20-28607, issue number 1

### Key

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|     |                                                                             |
|-----|-----------------------------------------------------------------------------|
| U   | hold UKAS accreditation                                                     |
| M   | hold MCERTS and UKAS accreditation                                          |
| N   | do not currently hold UKAS accreditation                                    |
| ^   | MCERTS accreditation not applicable for sample matrix                       |
| *   | UKAS accreditation not applicable for sample matrix                         |
| S   | Subcontracted to approved laboratory UKAS Accredited for the test           |
| SM  | Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test    |
| NS  | Subcontracted to approved laboratory. UKAS accreditation is not applicable. |
| I/S | Insufficient Sample                                                         |
| U/S | Unsuitable sample                                                           |
| n/t | Not tested                                                                  |
| <   | means "less than"                                                           |
| >   | means "greater than"                                                        |

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

### Deviation Codes

- 
- |   |                                                          |
|---|----------------------------------------------------------|
| a | No date of sampling supplied                             |
| b | No time of sampling supplied (Waters Only)               |
| c | Sample not received in appropriate containers            |
| d | Sample not received in cooled condition                  |
| e | The container has been incorrectly filled                |
| f | Sample age exceeds stability time (sampling to receipt)  |
| g | Sample age exceeds stability time (sampling to analysis) |

Where a sample has a deviation code, the applicable test result may be invalid.

### Sample Retention and Disposal

---

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage



## APPENDIX I - Geotechnical Laboratory Test Results

Geotechnical Laboratory Test  
Results

# SUMMARY OF GEOTECHNICAL TESTING

| Sample details |           |            |      |                                                               | Classification Tests |    |    |    |         | Density Tests |       | Undrained Triaxial Compression |               |                 |              | Chemical Tests |             |        | Other tests and comments   |
|----------------|-----------|------------|------|---------------------------------------------------------------|----------------------|----|----|----|---------|---------------|-------|--------------------------------|---------------|-----------------|--------------|----------------|-------------|--------|----------------------------|
| Location       | Depth (m) | Sample Ref | Type | Description                                                   | WC                   | LL | PL | PI | <425 µm | Bulk          | Dry   | Condition                      | Cell Pressure | Deviator Stress | Shear Stress | pH             | 2:1 W/S SO4 | W/S Mg |                            |
|                |           |            |      |                                                               | %                    | %  | %  | %  | %       | Mg/m³         | Mg/m³ |                                | kPa           | kPa             | kPa          |                | g/L         | mg/L   |                            |
| TP1            | 1.00      |            | D    | Brown slightly fine sandy CLAY with rare fine gravel.         | 19.4                 | 36 | 17 | 19 | 99      |               |       |                                |               |                 |              |                |             |        |                            |
| TP1            | 1.50      |            | B    | Orange brown and grey slightly gravelly silty SAND.           |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        | Particle Size Distribution |
| TP2            | 0.50      |            | D    |                                                               |                      |    |    |    |         |               |       |                                |               |                 |              | 6.5            | 0.024       |        |                            |
| TP2            | 2.00      |            | D    | Brown sandy CLAY with rare fine gravel.                       | 12.7                 | 24 | 14 | 10 | 98      |               |       |                                |               |                 |              |                |             |        |                            |
| TP3            | 1.50      |            | D    | Brown sandy CLAY with rare fine gravel.                       | 14.0                 | 28 | 14 | 14 | 98      |               |       |                                |               |                 |              |                |             |        |                            |
| TP5            | 1.00      |            | D    | Brown sandy CLAY with rare fine gravel.                       | 19.5                 | 40 | 19 | 21 | 98      |               |       |                                |               |                 |              |                |             |        |                            |
| TP5            | 2.50      |            | D    | Orange brown mottled grey clayey silty SAND with rare gravel. |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        | Particle Size Distribution |
| WS2            | 0.90      |            | D    | Brown soft slightly sandy silty CLAY with rare fine gravel.   | 15.9                 | 35 | 17 | 18 | 99      |               |       |                                |               |                 |              |                |             |        |                            |
| WS3            | 1.20      |            | D    | Brown sandy CLAY with rare fine gravel.                       | 16.9                 | 36 | 16 | 20 | 99      |               |       |                                |               |                 |              |                |             |        |                            |
| WS4            | 1.00      |            | D    | Brown sandy CLAY.                                             | 19.8                 | 39 | 20 | 19 | 100     |               |       |                                |               |                 |              |                |             |        |                            |

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

|                                                                                                                                                            |                                                                                                                      |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Checked and Approved by<br><br>S Burke - Senior Technician<br>14/07/2020 | Project Number:<br><br><b>GEO / 31290</b><br><br>Project Name:<br><br><b>ELMGROVE ROAD, LITTLEHAMPTON<br/>LP2265</b> |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

Test Report By GEOLABS Limited Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Leap Environmental Limited, Southern Coast Regional Office, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

## SUMMARY OF GEOTECHNICAL TESTING

| Sample details |           |            |      |                                             | Classification Tests |    |    |    |         | Density Tests |       | Undrained Triaxial Compression |               |                 |              | Chemical Tests |             |        | Other tests and comments   |
|----------------|-----------|------------|------|---------------------------------------------|----------------------|----|----|----|---------|---------------|-------|--------------------------------|---------------|-----------------|--------------|----------------|-------------|--------|----------------------------|
| Location       | Depth (m) | Sample Ref | Type | Description                                 | WC                   | LL | PL | PI | <425 µm | Bulk          | Dry   | Condition                      | Cell Pressure | Deviator Stress | Shear Stress | pH             | 2:1 W/S SO4 | W/S Mg |                            |
|                |           |            |      |                                             | %                    | %  | %  | %  | %       | Mg/m³         | Mg/m³ |                                | kPa           | kPa             | kPa          |                | g/L         | mg/L   |                            |
| WS4            | 1.20      |            | D    |                                             |                      |    |    |    |         |               |       |                                |               |                 |              | 7.1            | < 0.010     |        |                            |
| WS4            | 2.00-2.60 |            | B    | Orange brown clayey SAND with rare gravel.  |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        | Particle Size Distribution |
| WS5            | 1.50      |            | D    | Orange brown slightly clayey gravelly SAND. |                      |    |    |    |         |               |       |                                |               |                 |              | 7.7            | < 0.010     |        | Particle Size Distribution |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |
|                |           |            |      |                                             |                      |    |    |    |         |               |       |                                |               |                 |              |                |             |        |                            |

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

|                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Checked and Approved by<br><div style="font-family: cursive; font-size: 1.5em; margin-top: 10px;">S Burke</div> <div style="font-size: 0.8em; margin-top: 5px;">S Burke - Senior Technician<br/>14/07/2020</div> | <div style="display: flex; justify-content: space-between;"> <div>             Project Number:<br/><br/>             Project Name:           </div> <div style="text-align: center;"> <b>GEO / 31290</b><br/><br/> <b>ELMGROVE ROAD, LITTLEHAMPTON</b><br/> <b>LP2265</b> </div> </div> |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

**PARTICLE SIZE DISTRIBUTION**

BH / TP No.  
Depth (m)  
Sample Type

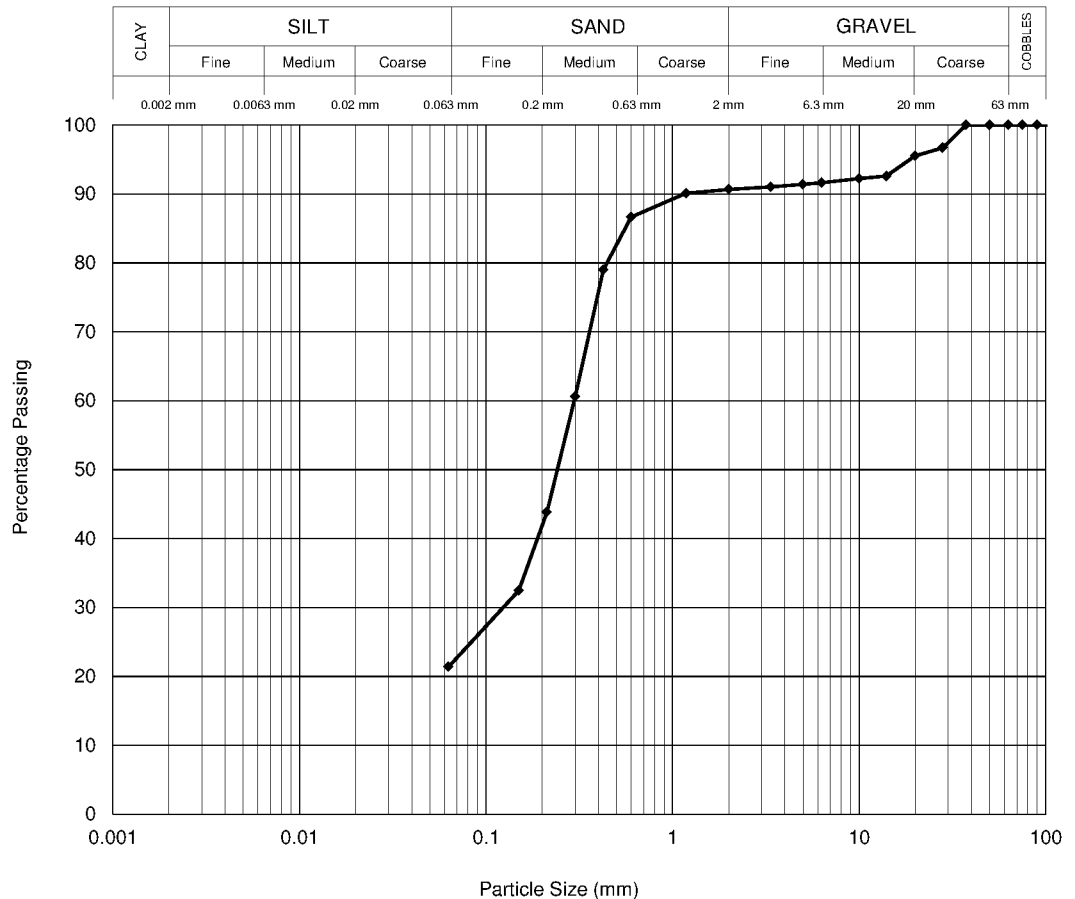
TP1  
1.50  
B

## Description

Orange brown and grey slightly gravelly silty SAND.

## BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

| Sieve    |        |
|----------|--------|
| Size     | % Pass |
| 200.0 mm | 100    |
| 125.0 mm | 100    |
| 90.0 mm  | 100    |
| 75.0 mm  | 100    |
| 63.0 mm  | 100    |
| 50.0 mm  | 100    |
| 37.5 mm  | 100    |
| 28.0 mm  | 97     |
| 20.0 mm  | 96     |
| 14.0 mm  | 93     |
| 10.0 mm  | 92     |
| 6.30 mm  | 92     |
| 5.00 mm  | 91     |
| 3.35 mm  | 91     |
| 2.00 mm  | 91     |
| 1.18 mm  | 90     |
| 600 µm   | 87     |
| 425 µm   | 79     |
| 300 µm   | 61     |
| 212 µm   | 44     |
| 150 µm   | 32     |
| 63 µm    | 21     |



| Particle Proportions |    |
|----------------------|----|
| Cobbles              | 0  |
| Gravel               | 9  |
| Sand                 | 69 |
| Silt & Clay          | 22 |

Processed by SB  
Checked and Approved by

*S Burke*

S Burke - Senior Technician  
14/07/2020

Project Number:

**GEO / 31290**

Project Name:

**ELMGROVE ROAD, LITTLEHAMPTON  
LP2265**

**GEOLABS**



Test Report By: GEOLABS Limited

Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Leap Environmental Limited, Southern Coast Regional Office, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

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(Ref 1594718179)

**PARTICLE SIZE DISTRIBUTION**

BH / TP No.  
Depth (m)  
Sample Type

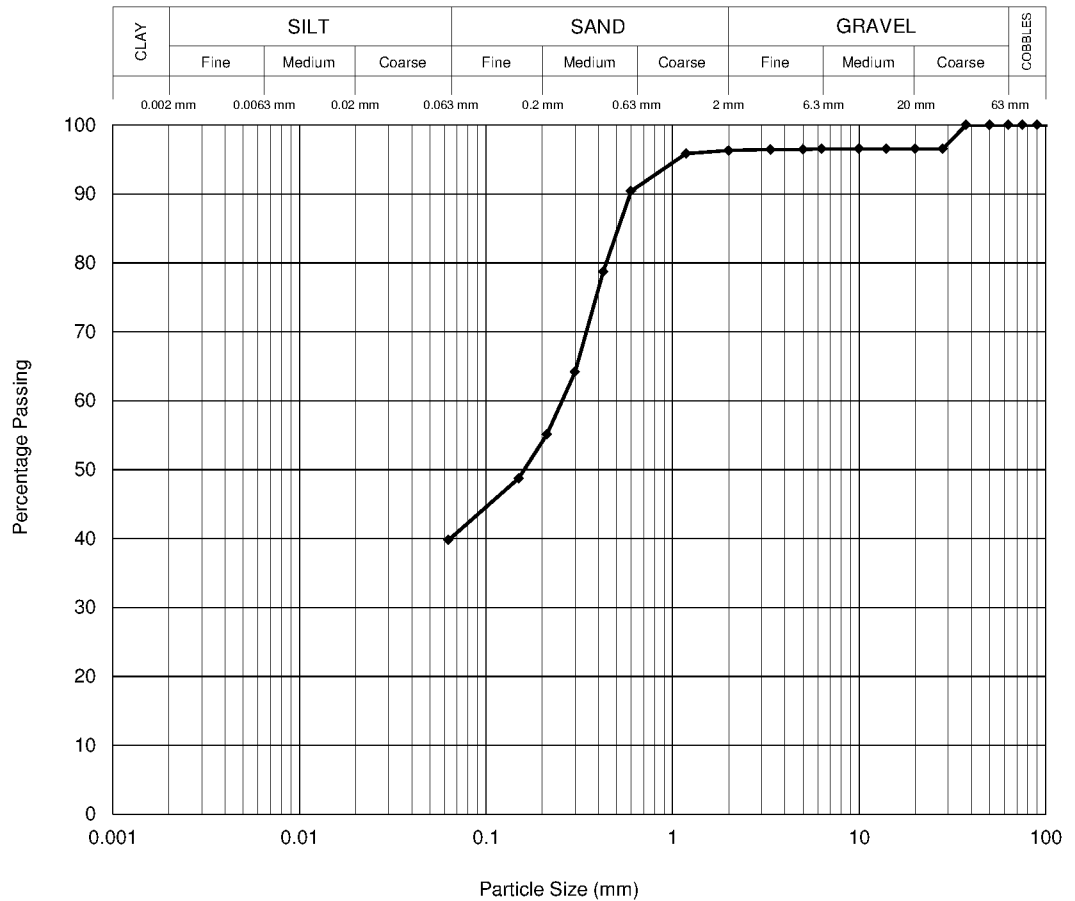
TP5  
2.50  
D

## Description

Orange brown mottled grey clayey silty SAND with rare gravel.

## BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

| Sieve    |        |
|----------|--------|
| Size     | % Pass |
| 200.0 mm | 100    |
| 125.0 mm | 100    |
| 90.0 mm  | 100    |
| 75.0 mm  | 100    |
| 63.0 mm  | 100    |
| 50.0 mm  | 100    |
| 37.5 mm  | 100    |
| 28.0 mm  | 97     |
| 20.0 mm  | 97     |
| 14.0 mm  | 97     |
| 10.0 mm  | 97     |
| 6.30 mm  | 97     |
| 5.00 mm  | 96     |
| 3.35 mm  | 96     |
| 2.00 mm  | 96     |
| 1.18 mm  | 96     |
| 600 µm   | 90     |
| 425 µm   | 79     |
| 300 µm   | 64     |
| 212 µm   | 55     |
| 150 µm   | 49     |
| 63 µm    | 40     |



| Particle Proportions |    |
|----------------------|----|
| Cobbles              | 0  |
| Gravel               | 4  |
| Sand                 | 57 |
| Silt & Clay          | 39 |

Processed by SB  
Checked and Approved by

*S Burke*

S Burke - Senior Technician  
14/07/2020

Project Number:

**GEO / 31290**

Project Name:

**ELMGROVE ROAD, LITTLEHAMPTON  
LP2265**

**GEOLABS**



Test Report By: GEOLABS Limited

Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Leap Environmental Limited, Southern Coast Regional Office, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

Page 1 of 1  
(Ref 1594718184)

**PARTICLE SIZE DISTRIBUTION**

BH / TP No.  
Depth (m)  
Sample Type

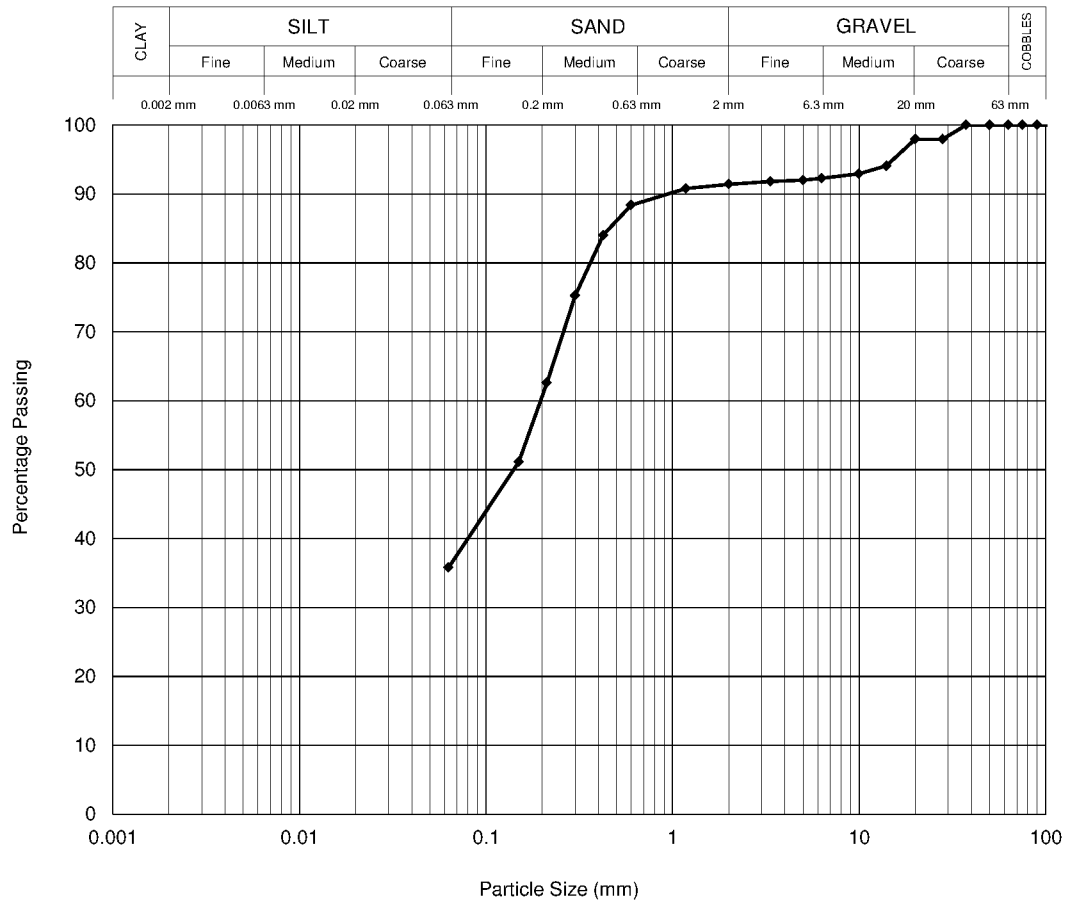
WS4  
2.00-2.60  
B

## Description

Orange brown clayey SAND with rare gravel.

## BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

| Sieve    |        |
|----------|--------|
| Size     | % Pass |
| 200.0 mm | 100    |
| 125.0 mm | 100    |
| 90.0 mm  | 100    |
| 75.0 mm  | 100    |
| 63.0 mm  | 100    |
| 50.0 mm  | 100    |
| 37.5 mm  | 100    |
| 28.0 mm  | 98     |
| 20.0 mm  | 98     |
| 14.0 mm  | 94     |
| 10.0 mm  | 93     |
| 6.30 mm  | 92     |
| 5.00 mm  | 92     |
| 3.35 mm  | 92     |
| 2.00 mm  | 91     |
| 1.18 mm  | 91     |
| 600 µm   | 88     |
| 425 µm   | 84     |
| 300 µm   | 75     |
| 212 µm   | 63     |
| 150 µm   | 51     |
| 63 µm    | 36     |



| Particle Proportions |    |
|----------------------|----|
| Cobbles              | 0  |
| Gravel               | 9  |
| Sand                 | 56 |
| Silt & Clay          | 35 |

Processed by SB  
Checked and Approved by

*S Burke*

S Burke - Senior Technician  
14/07/2020

Project Number:

**GEO / 31290**

Project Name:

**ELMGROVE ROAD, LITTLEHAMPTON  
LP2265**

**GEOLABS**



Test Report By: GEOLABS Limited

Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Leap Environmental Limited, Southern Coast Regional Office, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

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(Ref 1594718189)

**PARTICLE SIZE DISTRIBUTION**

BH / TP No.  
Depth (m)  
Sample Type

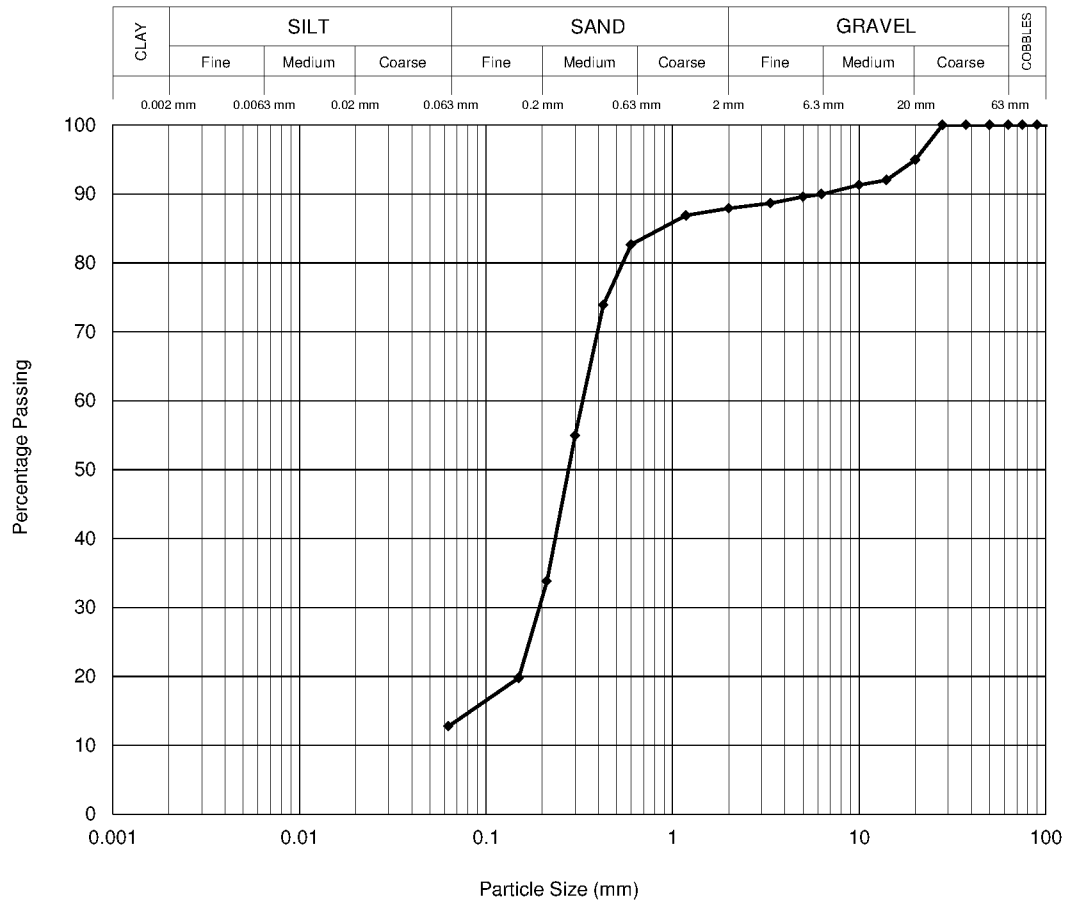
WS5  
1.50  
D

## Description

Orange brown slightly clayey gravelly SAND.

## BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

| Sieve    |        |
|----------|--------|
| Size     | % Pass |
| 200.0 mm | 100    |
| 125.0 mm | 100    |
| 90.0 mm  | 100    |
| 75.0 mm  | 100    |
| 63.0 mm  | 100    |
| 50.0 mm  | 100    |
| 37.5 mm  | 100    |
| 28.0 mm  | 100    |
| 20.0 mm  | 95     |
| 14.0 mm  | 92     |
| 10.0 mm  | 91     |
| 6.30 mm  | 90     |
| 5.00 mm  | 90     |
| 3.35 mm  | 89     |
| 2.00 mm  | 88     |
| 1.18 mm  | 87     |
| 600 µm   | 83     |
| 425 µm   | 74     |
| 300 µm   | 55     |
| 212 µm   | 34     |
| 150 µm   | 20     |
| 63 µm    | 13     |



| Particle Proportions |    |
|----------------------|----|
| Cobbles              | 0  |
| Gravel               | 12 |
| Sand                 | 75 |
| Silt & Clay          | 13 |

Processed by SB  
Checked and Approved by

*S Burke*

S Burke - Senior Technician  
14/07/2020

Project Number:

**GEO / 31290**

Project Name:

**ELMGROVE ROAD, LITTLEHAMPTON  
LP2265**

**GEOLABS**



Test Report By: GEOLABS Limited

Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Leap Environmental Limited, Southern Coast Regional Office, Victoria Road, Burgess Hill, West Sussex, RH15 9LR

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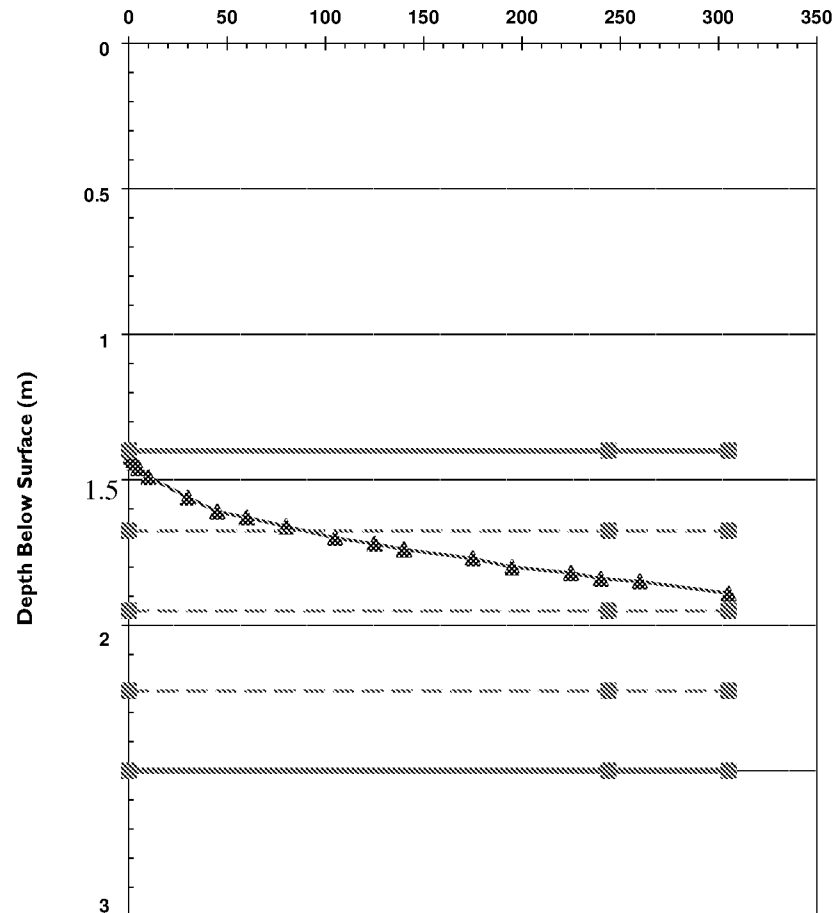
## APPENDIX J Soakage Test Results

## Soakage Test Results



## BRE Digest 365 - Soakage Test

Filling to Max Water Depth (min)



Test Hole No: TP1  
Test No: Test No 1



|                                     |           |
|-------------------------------------|-----------|
| Pit Length (m)                      | 1.6       |
| Pit Width (m)                       | 0.6       |
| Depth to Pit Base (m)               | 2.5       |
| Depth to Top of Permeable Soils (m) |           |
| Depth to Groundwater Surface (m)    |           |
| Depth to Top of Granular Fill (m)   |           |
| Void Assumed for Granular Fill (%)  |           |
| Depth of Water at Start of Test (m) | 1.4       |
| Max Water Dropdown during Test (m)  | 0.49      |
| Total Soakage Test Time (min)       | 305       |
| Mean Internal Discharge Area (m2)   | 4.117     |
| Discharge Rate (litre/min)          | 0.9572174 |
| Soakage Rate (litre/m2/min)         | 0.2325036 |
| BRE Soil Infiltration Rate (m/sec)  | 3.875E-06 |

### Comments:

Water level fell to 75%-- 50% max water depth, calculations were based on actual fall of water level achieved. Result not compliant with BRE365 requirement since water did not fall to 25% max water depth.

Client: Boklok Housing  
Site: Elm Grove Road, Littlehampton  
Tested By: Oakland SI  
Test Date: 23/06/20

## APPENDIX K - Soil Screening Tables

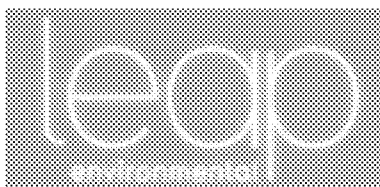
## Soil Screening Tables

|                                             |          |       |          |        | Sample Location  |       | TP1        | TP1        | TP2        | TP3        | TP5        | TP5        | W3         | W3         | W4         | W4         | W5         |
|---------------------------------------------|----------|-------|----------|--------|------------------|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                                             |          |       |          |        | Depth (m)        |       | 0.00       | 0.60       | 0.75       | 0.90       | 0.60       | 0.30       | 0.20       | 0.15       | 0.10       | 0.40       | 0.00       |
|                                             |          |       |          |        | Date Sampled     |       | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 | 22/06/2019 |
|                                             |          |       |          |        | Area             |       | Site       | Site       | Site       | Site       | Site       | Site       | Site       | Site       | Site       | Site       | Site       |
|                                             |          |       |          |        | Matrix           |       | MC         | Natural    | MC         | MC         | Natural    | MC         | MC         | MC         | MC         | Natural    | MC         |
|                                             |          |       |          |        | Screening Values |       |            |            |            |            |            |            |            |            |            |            |            |
| Determinand                                 | Units    | LOD   | Resi     | Source | N                | N+GAC |            |            |            |            |            |            |            |            |            |            |            |
| Miscellaneous                               |          |       |          |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| Acid Neutralisation Capacity                | mol/kg   | 0.1   |          |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| Loss On Ignition (450C)                     | %        | 0.01  |          |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| pH                                          | pH units | 0.1   | na.      | -      | 11               | 0     | 8.6        | 8          | 7.9        | 8.2        | 7.7        | 9.7        | 8.6        | 8.3        | 8          | 8.1        | 8.1        |
| Total Organic Carbon                        | %        | 0.1   | na.      | -      | 11               | 0     | 1.5        | 0.28       | 2.6        | 3.8        | 0.49       | 2.8        | 1.2        | 0.67       | 1.5        | 0.78       | 0.62       |
| Calculated Soil Organic Matter              | %        |       |          |        | 11               | 0     | 2.59       | 0.48       | 4.48       | 6.55       | 0.94       | 4.83       | 2.07       | 1.16       | 2.59       | 1.34       | 1.07       |
| Metals                                      |          |       |          |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| Arsenic                                     | mg/kg    | 2     | 37       | C4SL   | 11               | 0     | 13.3       | 13.3       | 9.6        | 9.7        | 11.2       | 11         | 9.8        | 8.1        | 9.6        | 8.6        | 9.4        |
| Cadmium                                     | mg/kg    | 0.1   | 22       | C4SL   | 11               | 0     | 0.5        | <0.1       | <0.1       | 0.6        | <0.1       | 0.5        | <0.1       | <0.1       | <0.1       | <0.1       | 0.5        |
| Chromium                                    | mg/kg    | 0.5   | 910      | SWUL   | 11               | 0     | 25.1       | 33.8       | 19.8       | 19.4       | 29.3       | 20.5       | 20.5       | 17.9       | 18.1       | 18.8       | 21.1       |
| Chromium VI                                 | mg/kg    | 1     | 21       | C4SL   | 11               | 0     | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | 0.8        |
| Copper                                      | mg/kg    | 2     | 2,400    | SWUL   | 11               | 0     | 21         | 21.6       | 20         | 27.6       | 18.7       | 17.7       | 18         | 17.3       | 22.9       | 20.1       | 17.3       |
| Lead                                        | mg/kg    | 2     | 200      | C4SL   | 11               | 0     | 108        | 19.2       | 39.2       | 60.7       | 16.1       | 38         | 33.8       | 22.1       | 45.5       | 26.5       | 24         |
| Mercury                                     | mg/kg    | 1     | 40       | SWUL   | 11               | 0     | <0.2       | <0.1       | <0.2       | <0.2       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | 0.5        |
| Nickel                                      | mg/kg    | 0.5   | 130      | SWUL   | 11               | 0     | 20.8       | 23.9       | 16         | 15         | 21.1       | 22.5       | 15.8       | 13.4       | 14.3       | 13.9       | 15         |
| Selenium                                    | mg/kg    | 3     | 250      | SWUL   | 11               | 0     | <1         | <1         | <1         | <1         | <1         | <1         | <1         | <1         | <1         | <1         | 1          |
| Zinc                                        | mg/kg    | 2     | 3,700    | SWUL   | 11               | 0     | 287        | 66.5       | 82         | 154        | 54.5       | 115        | 89.1       | 52.9       | 56.8       | 47.7       | 59.1       |
| Asbestos                                    |          |       |          |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| Asbestos Identification                     | -        | -     | Presence |        | 20               | 0     | N.D.       | N.D.       | N.D.       | N.D.       | N.D.       | N.D.       | N.D.       | N.D.       | N.D.       | N.D.       | N.D.       |
| Asbestos Quantification                     | %        | 0.001 | Presence |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| Polycyclic Aromatic Hydrocarbons (USEPA 16) |          |       |          |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| Benzo[a]pyrene                              | mg/kg    | 0.1   | 50       | C4SL   | 11               | 7     | 20.9       | <0.1       | 77.8       | 75.5       | <0.1       | 30         | 10.3       | 1.3        | 17.2       | 0.4        | 7.1        |
| Naphthalene                                 | mg/kg    | 0.1   | 2.3      | SWUL   | 11               | 0     | 0.2        | <0.1       | 1.1        | 1.1        | <0.1       | 0.5        | 0.1        | <0.1       | 0.2        | <0.1       | 0.1        |
| Azanthrene                                  | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 1.1        | <0.1       | 3.9        | 5.1        | <0.1       | 1.4        | 0.8        | 0.1        | 2.3        | 0.2        | 0.7        |
| Azanthrene                                  | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 0.4        | <0.1       | 3.1        | 4.3        | <0.1       | 2.8        | 0.4        | <0.1       | 0.5        | <0.1       | 0.6        |
| Fluorene                                    | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 0.3        | <0.1       | 1.7        | 3          | <0.1       | 2          | 0.3        | <0.1       | 0.4        | <0.1       | 0.3        |
| Phenanthrene                                | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 6.7        | <0.1       | 70.5       | 117        | <0.1       | 40.1       | 6.7        | 0.4        | 8.9        | <0.1       | 6          |
| Anthracene                                  | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 2.6        | <0.1       | 20.6       | 33.7       | <0.1       | 11.5       | 2.3        | 0.2        | 3.5        | <0.1       | 2.7        |
| Fluoranthene                                | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 34.5       | <0.1       | 207        | 202        | 0.1        | 66.1       | 16.4       | 1.3        | 23.6       | 0.3        | 19.5       |
| Pyrene                                      | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 35.2       | <0.1       | 168        | 166        | <0.1       | 65.8       | 15.5       | 1.2        | 22.7       | 0.4        | 16         |
| Benzo[a]anthracene                          | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 20.8       | <0.1       | 85.4       | 82.9       | <0.1       | 30.1       | 9.5        | 1          | 18.5       | 0.3        | 7.2        |
| Chrysene                                    | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 21.1       | <0.1       | 89.8       | 87.2       | <0.1       | 32.1       | 9.8        | 1.1        | 16         | 0.2        | 7.5        |
| Benzo[b]fluoranthene                        | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 20.2       | <0.1       | 81.5       | 78.1       | <0.1       | 30.6       | 9.8        | 1.6        | 17.1       | 0.2        | 7.8        |
| Benzo[k]fluoranthene                        | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 18.1       | <0.1       | 69.4       | 67.3       | <0.1       | 27.1       | 9.5        | 1.1        | 15         | 0.3        | 6.5        |
| Benzo[a]pyrene                              | mg/kg    | 0.1   | 5        | -      | 11               | 7     | 20.9       | <0.1       | 77.8       | 75.5       | <0.1       | 30         | 10.3       | 1.3        | 17.2       | 0.4        | 7.1        |
| Indeno[1,2,3-cd]pyrene                      | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 14.7       | <0.1       | 62.6       | 57.7       | <0.1       | 20.7       | 8.1        | 1          | 11.8       | 0.3        | 5.1        |
| Dibenz[ah]anthracene                        | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 3.6        | <0.1       | 19.3       | 14.5       | <0.1       | 4.2        | 2          | 0.3        | 3.5        | 0.1        | 1.2        |
| Benzo[ghi]perylene                          | mg/kg    | 0.1   | na.      | -      | 11               | 0     | 13.7       | <0.1       | 52.4       | 60.7       | <0.1       | 22.1       | 8.7        | 1.1        | 10         | 0.4        | 4.8        |
| PAH (total)                                 | mg/kg    | 0.1   | -        | -      | 11               | 0     | 214        | <0.1       | 1010       | 1060       | <0.1       | 389        | 110        | 11.8       | 171        | 3.3        | 93.2       |
| al PAH (Including Coronene GC-F             | mg/kg    | 2     |          |        | 0                | 0     | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | nA         |
| Petroleum Hydrocarbons                      |          |       |          |        |                  |       |            |            |            |            |            |            |            |            |            |            |            |
| Total BTEX                                  | mg/kg    | 0.01  | na.      | -      | 0                | 0     | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total PHC                                   | mg/kg    | 1     | na.      | -      | 0                | 0     | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |

|                                             |          |       | Sample Location: |        |    | TP4         | TP6         | TP7         | TP8         | TP9         | TP10        | TP11       | TP12       | TP13       |
|---------------------------------------------|----------|-------|------------------|--------|----|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|
|                                             |          |       | Depth (m):       |        |    | 120         | 080         | 150         | 150         | 150         | 080         | 050        | 150        | 180        |
|                                             |          |       | Date Sampled:    |        |    | 22/06/2020  | 22/06/2020  | 22/06/2020  | 22/06/2020  | 22/06/2020  | 22/06/2020  | 22/06/2020 | 22/06/2020 | 22/06/2020 |
|                                             |          |       | Area:            |        |    | Southern SP | Southern SP | Southern SP | Southern SP | Southern SP | Southern SP | Western SP | Western SP | Western SP |
|                                             |          |       | Matrix:          |        |    | MG          | MG          | MG          | MG          | MG          | MG          | MG         | MG         | MG         |
|                                             |          |       | Screening Values |        |    |             |             |             |             |             |             |            |            |            |
| Determinand                                 | Units    | LOD   | Resl             | Source | N  | N>GAC       |             |             |             |             |             |            |            |            |
| Miscellaneous                               |          |       |                  |        |    |             |             |             |             |             |             |            |            |            |
| Add Neutralisation Capacity                 | mol/kg   | 0.1   |                  |        |    |             |             |             |             |             |             |            |            |            |
| Loss On Ignition (450°C)                    | %        | 0.01  |                  |        |    |             |             |             |             |             |             |            |            |            |
| pH                                          | pH units | 0.1   | n.v.             | -      | 9  | 0           | 8.9         | 8.7         | 8.4         | 8.1         | 8.4         | 7.8        | 8          | 7.8        |
| Total Organic Carbon                        | %        | 0.1   | n.v.             | -      | 9  | 0           | 12          | 1.1         | 22          | 12          | 15          | 26         | 12         | 0.86       |
| Calculated Soil Organic Matter              | %        |       |                  |        | 9  | 0           | 207         | 190         | 379         | 207         | 259         | 448        | 207        | 148        |
| Metals                                      |          |       |                  |        |    |             |             |             |             |             |             |            |            |            |
| Arsenic                                     | mg/kg    | 2     | 37               | C4SL   | 9  | 0           | 11          | 126         | 95          | 91          | 115         | 94         | 104        | 97         |
| Cadmium                                     | mg/kg    | 0.1   | 22               | C4SL   | 9  | 0           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5        | <0.5       | <0.5       | <0.5       |
| Chromium                                    | mg/kg    | 0.5   | 910              | S4UL   | 9  | 0           | 25          | 266         | 209         | 213         | 281         | 194        | 229        | 229        |
| Chromium VI                                 | mg/kg    | 1     | 21               | C4SL   | 9  | 0           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5        | <0.5       | <0.5       | <0.5       |
| Copper                                      | mg/kg    | 2     | 2400             | S4UL   | 9  | 0           | 216         | 238         | 226         | 22          | 257         | 224        | 236        | 192        |
| Lead                                        | mg/kg    | 2     | 200              | C4SL   | 9  | 0           | 516         | 505         | 468         | 405         | 794         | 49         | 507        | 268        |
| Mercury                                     | mg/kg    | 1     | 40               | S4UL   | 9  | 0           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5        | <0.5       | <0.5       | <0.5       |
| Nickel                                      | mg/kg    | 0.5   | 130              | S4UL   | 9  | 0           | 18          | 213         | 158         | 154         | 196         | 143        | 174        | 168        |
| Selenium                                    | mg/kg    | 3     | 250              | S4UL   | 9  | 0           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5        | <0.5       | <0.5       | <0.5       |
| Zinc                                        | mg/kg    | 2     | 3,700            | S4UL   | 9  | 0           | 767         | 736         | 766         | 663         | 119         | 751        | 832        | 547        |
| Asbestos                                    |          |       |                  |        |    |             |             |             |             |             |             |            |            |            |
| Asbestos Identification                     | -        | -     | Presence         |        | 20 | 0           | N.D.        | N.D.        | N.D.        | N.D.        | N.D.        | N.D.       | N.D.       | N.D.       |
| Asbestos Quantification                     | %        | 0.001 | Presence         |        |    |             |             |             |             |             |             |            |            |            |
| Polycyclic Aromatic Hydrocarbons (USEPA 16) |          |       |                  |        |    |             |             |             |             |             |             |            |            |            |
| Benzo(a)pyrene                              | mg/kg    | 0.1   | 5.0              | C4SL   | 9  | 1           | 0.3         | 0.3         | 0.4         | 0.3         | 27          | 0.3        | 0.9        | 0.1        |
| Naphthalene                                 | mg/kg    | 0.1   | 23               | S4UL   | 9  | 0           | <0.1        | <0.1        | <0.1        | <0.1        | 0.3         | <0.1       | <0.1       | 0.2        |
| Acenaphthylene                              | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | <0.1        | <0.1        | <0.1        | <0.1        | 0.9         | <0.1       | <0.1       | <0.1       |
| Acenaphthene                                | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | <0.1        | <0.1        | <0.1        | <0.1        | 22          | <0.1       | <0.1       | <0.1       |
| Fluorene                                    | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | <0.1        | <0.1        | <0.1        | <0.1        | 23          | <0.1       | <0.1       | <0.1       |
| Phenanthrene                                | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.1         | 0.3         | 0.2         | 0.1         | 52.3        | 0.2        | 1.6        | 0.1        |
| Anthracene                                  | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | <0.1        | <0.1        | <0.1        | <0.1        | 148         | <0.1       | 0.5        | <0.1       |
| Fluoranthene                                | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.4         | 0.5         | 0.6         | 0.3         | 69.1        | 0.5        | 25         | 0.3        |
| Pyrene                                      | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.3         | 0.4         | 0.5         | 0.3         | 54.1        | 0.4        | 1.9        | 0.2        |
| Benzo(a)anthracene                          | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.3         | 0.3         | 0.4         | 0.2         | 36.3        | 0.2        | 1.1        | <0.1       |
| Chrysene                                    | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.3         | 0.4         | 0.4         | 0.2         | 36.9        | 0.3        | 1.1        | 0.1        |
| Benzo(b)fluoranthene                        | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.2         | 0.4         | 0.3         | 0.3         | 26.9        | 0.3        | 1          | 0.2        |
| Benzo(k)fluoranthene                        | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.2         | 0.5         | 0.4         | 0.3         | 25.9        | 0.4        | 1.3        | 0.2        |
| Benzo(a)pyrene                              | mg/kg    | 0.1   | 5                | -      | 9  | 1           | 0.3         | 0.3         | 0.4         | 0.3         | 27          | 0.3        | 0.9        | 0.1        |
| Indeno(1,2,3-cd)pyrene                      | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.2         | 0.8         | 0.3         | 0.2         | 17.1        | 0.4        | 0.7        | <0.1       |
| Dibenz(a,h)anthracene                       | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | <0.1        | 0.1         | <0.1        | <0.1        | 5.5         | <0.1       | 0.2        | <0.1       |
| Benzo(g,h,i)perylene                        | mg/kg    | 0.1   | n.v.             | -      | 9  | 0           | 0.2         | 1           | <0.3        | <0.3        | 15.1        | <0.6       | 0.7        | <0.1       |
| PAH (total)                                 | mg/kg    | 0.1   | -                | -      | 9  | 0           | 25          | 5.3         | <3.8        | <2.8        | 386         | <3.9       | 13.8       | 1.9        |
| Total PAH (Including Coronene GC-FI)        | mg/kg    | 2     |                  |        | 2  | 0           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5        | <0.5       | 14         | <0.5       |
| Petroleum Hydrocarbons                      |          |       |                  |        |    |             |             |             |             |             |             |            |            |            |
| Total BTEX                                  | mg/kg    | 0.01  |                  |        | 2  | 0           | <0.2        | <0.2        | <0.2        | <0.2        | <0.2        | <0.2       | <0.2       | <0.2       |
| Total PHC                                   | mg/kg    | 1     | n.v.             | -      | 2  | 0           | <0.2        | <0.2        | <0.2        | <0.2        | <0.2        | <0.2       | 96         | 86         |
| PCB (ICES 7 Congeners)                      |          |       |                  |        |    |             |             |             |             |             |             |            |            |            |
| PCB (Total of 7 Congeners)                  | mg/kg    | 0.03  |                  |        | 2  | 0           | <0.5        | <0.5        | <0.5        | <0.5        | <0.5        | <0.5       | <0.5       | <0.5       |

## APPENDIX L Preliminary Waste Classification

Preliminary Waste Classification



## Waste Classification Report



LFWEE-EJ4J8-L2QJC

**Job name**

LP2125 SP2

**Description/Comments****Project****Site****Related Documents**

| #    | Name | Description |
|------|------|-------------|
| None |      |             |

**Waste Stream Template**

Leap Standard Classification WM3

**Classified by**

Name: **Martin Weil**  
Date: **23 Jul 2020 12:42 GMT**  
Telephone:

Company: **Leap Environmental Ltd**  
**Curtis Road**

HazWasteOnline™ Training Record:

| Course                                  | Date |
|-----------------------------------------|------|
| Hazardous Waste Classification          | -    |
| Advanced Hazardous Waste Classification | -    |

**Report**

Created by: Martin Weil  
Created date: 23 Jul 2020 12:42 GMT

**Job summary**

| # | Sample Name | Depth [m] | Classification Result | Hazard properties | Page |
|---|-------------|-----------|-----------------------|-------------------|------|
| 1 | SP1-S2      | -         | Non Hazardous         |                   | 2    |
| 2 | SP2-S1      | -         | Non Hazardous         |                   | 5    |
| 3 | SP3-S1      |           | Non Hazardous         |                   | 8    |

**Appendices**

|                                                         | Page |
|---------------------------------------------------------|------|
| Appendix A: Classifier defined and non CLP determinands | 11   |
| Appendix B: Rationale for selection of metal species    | 12   |
| Appendix C: Version                                     | 13   |

## Classification of sample: SP1-S2

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

## Sample details

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| Sample Name:  | LoW Code:                                                                                 |
| <b>SP1-S2</b> | Chapter:                                                                                  |
| Sample Depth: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| - m           | Entry:                                                                                    |
|               | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |

## Hazard properties

None identified

## Determinands

Moisture content: 0% No Moisture Correction applied (MC)

| #  | Determinand                                                                                        |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | CLP index number                                                                                   | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | pH                                                                                                 |                                |                                  |          | 10.1              | pH    |              | 10.1           | pH    | 10.1 pH              |            |                |
| 2  | arsenic { arsenic trioxide }                                                                       |                                |                                  |          | 32.5              | mg/kg | 1.32         | 42.911         | mg/kg | 0.00429 %            |            |                |
|    | 033-003-00-0                                                                                       | 215-481-4                      | 1327-53-3                        |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium sulfide }                                                                        |                                |                                  | 1        | <0.5              | mg/kg | 1.285        | <0.643         | mg/kg | <0.00005 %           |            | <LOD           |
|    | 043-010-00-4                                                                                       | 215-147-8                      | 1306-23-8                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide (worst case) }                                                      |                                |                                  |          | 27.5              | mg/kg | 1.462        | 40.193         | mg/kg | 0.00402 %            |            |                |
|    |                                                                                                    | 215-180-9                      | 1306-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { dicopper oxide; copper (I) oxide }                                                        |                                |                                  |          | 84.8              | mg/kg | 1.126        | 95.475         | mg/kg | 0.00955 %            |            |                |
|    | 029-002-00-X                                                                                       | 215-270-7                      | 1317-39-1                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } |                                |                                  | 1        | 31.9              | mg/kg |              | 31.9           | mg/kg | 0.00319 %            |            |                |
|    | 032-001-00-6                                                                                       |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { mercury dichloride }                                                                     |                                |                                  |          | <0.5              | mg/kg | 1.353        | <0.677         | mg/kg | <0.0000677 %         |            | <LOD           |
|    | 060-010-00-X                                                                                       | 231-259-8                      | 7487-94-7                        |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel dihydroxide }                                                                      |                                |                                  |          | 48.7              | mg/kg | 1.579        | 76.922         | mg/kg | 0.00769 %            |            |                |
|    | 028-008-00-X                                                                                       | 235-098-5 [1]<br>234-348-1 [2] | 12054-48-7 [1]<br>11113-74-9 [2] |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc sulphate }                                                                             |                                |                                  |          | 58.8              | mg/kg | 2.469        | 145.195        | mg/kg | 0.0145 %             |            |                |
|    | 030-005-00-9                                                                                       | 231-793-3 [1]<br>231-793-8 [2] | 7446-19-7 [1]<br>7733-02-0 [2]   |          |                   |       |              |                |       |                      |            |                |
| 10 | naphthalene                                                                                        |                                |                                  |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|    | 001-052-00-2                                                                                       | 202-049-5                      | 91-20-3                          |          |                   |       |              |                |       |                      |            |                |
| 11 | acenaphthylene                                                                                     |                                |                                  |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                    | 205-917-1                      | 208-96-8                         |          |                   |       |              |                |       |                      |            |                |
| 12 | acenaphthene                                                                                       |                                |                                  |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                    | 201-489-6                      | 85-32-9                          |          |                   |       |              |                |       |                      |            |                |
| 13 | fluorene                                                                                           |                                |                                  |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                    | 201-695-5                      | 86-73-7                          |          |                   |       |              |                |       |                      |            |                |
| 14 | phenanthrene                                                                                       |                                |                                  |          | 0.2               | mg/kg |              | 0.2            | mg/kg | 0.00002 %            |            |                |
|    |                                                                                                    | 201-581-5                      | 85-01-8                          |          |                   |       |              |                |       |                      |            |                |
| 15 | anthracene                                                                                         |                                |                                  |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|    |                                                                                                    | 204-371-1                      | 120-12-7                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                                                                                                                                                                |                                                                  |                                                              | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|        | CLP index number                                                                                                                                                                           | EC Number                                                        | CAS Number                                                   |          |                   |       |              |                |       |                      |            |                |
| 16     | * fluoranthene                                                                                                                                                                             |                                                                  |                                                              |          | 0.2               | mg/kg |              | 0.2            | mg/kg | 0.00002 %            |            |                |
|        |                                                                                                                                                                                            | 205-912-4                                                        | 206-44-0                                                     |          |                   |       |              |                |       |                      |            |                |
| 17     | * pyrene                                                                                                                                                                                   |                                                                  |                                                              |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|        |                                                                                                                                                                                            | 204-627-3                                                        | 129-00-0                                                     |          |                   |       |              |                |       |                      |            |                |
| 18     | benzo[a]anthracene                                                                                                                                                                         |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|        | 601-033-00-9                                                                                                                                                                               | 200-280-6                                                        | 56-55-3                                                      |          |                   |       |              |                |       |                      |            |                |
| 19     | chrysene                                                                                                                                                                                   |                                                                  |                                                              |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|        | 601-048-00-0                                                                                                                                                                               | 205-923-4                                                        | 218-01-9                                                     |          |                   |       |              |                |       |                      |            |                |
| 20     | benzo[b]fluoranthene                                                                                                                                                                       |                                                                  |                                                              |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|        | 601-034-00-4                                                                                                                                                                               | 205-911-9                                                        | 205-99-2                                                     |          |                   |       |              |                |       |                      |            |                |
| 21     | benzo[k]fluoranthene                                                                                                                                                                       |                                                                  |                                                              |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|        | 601-036-00-5                                                                                                                                                                               | 205-916-6                                                        | 207-06-9                                                     |          |                   |       |              |                |       |                      |            |                |
| 22     | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                         |                                                                  |                                                              |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|        | 601-092-00-3                                                                                                                                                                               | 200-028-5                                                        | 50-32-8                                                      |          |                   |       |              |                |       |                      |            |                |
| 23     | * indeno[123-cd]pyrene                                                                                                                                                                     |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|        |                                                                                                                                                                                            | 205-883-2                                                        | 193-39-5                                                     |          |                   |       |              |                |       |                      |            |                |
| 24     | dibenz[a,h]anthracene                                                                                                                                                                      |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|        | 601-041-00-2                                                                                                                                                                               | 200-181-8                                                        | 53-70-3                                                      |          |                   |       |              |                |       |                      |            |                |
| 25     | * benzo[ghi]perylene                                                                                                                                                                       |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|        |                                                                                                                                                                                            | 205-883-6                                                        | 191-24-2                                                     |          |                   |       |              |                |       |                      |            |                |
| 26     | * confirm TPH has NOT arisen from diesel or petrol                                                                                                                                         |                                                                  |                                                              |          | ND                |       |              |                |       |                      |            |                |
|        |                                                                                                                                                                                            |                                                                  |                                                              |          |                   |       |              |                |       |                      |            |                |
| 27     | * TPH (C6 to C40) petroleum group                                                                                                                                                          |                                                                  |                                                              |          | 80.1              | mg/kg |              | 80.1           | mg/kg | 0.00801 %            |            |                |
|        |                                                                                                                                                                                            |                                                                  | TPH                                                          |          |                   |       |              |                |       |                      |            |                |
| 28     | * ethylbenzene                                                                                                                                                                             |                                                                  |                                                              |          | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
|        | 601-023-00-4                                                                                                                                                                               | 202-849-4                                                        | 100-41-4                                                     |          |                   |       |              |                |       |                      |            |                |
| 29     | toluene                                                                                                                                                                                    |                                                                  |                                                              |          | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
|        | 601-021-00-3                                                                                                                                                                               | 203-625-9                                                        | 108-88-3                                                     |          |                   |       |              |                |       |                      |            |                |
| 30     | benzene                                                                                                                                                                                    |                                                                  |                                                              |          | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
|        | 601-020-00-8                                                                                                                                                                               | 200-753-7                                                        | 71-43-2                                                      |          |                   |       |              |                |       |                      |            |                |
| 31     | xylene                                                                                                                                                                                     |                                                                  |                                                              |          | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
|        | 601-022-00-9                                                                                                                                                                               | 202-422-2 [1]<br>203-396-5 [2]<br>203-576-3 [3]<br>215-535-7 [4] | 95-47-6 [1]<br>106-42-3 [2]<br>108-38-3 [3]<br>1330-20-7 [4] |          |                   |       |              |                |       |                      |            |                |
| 32     | * cyanides { * salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                                                  |                                                              |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|        | 606-007-00-5                                                                                                                                                                               |                                                                  |                                                              |          |                   |       |              |                |       |                      |            |                |
| Total: |                                                                                                                                                                                            |                                                                  |                                                              |          |                   |       |              |                |       | 0.0518 %             |            |                |

#### Key

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

#### Supplementary Hazardous Property Information

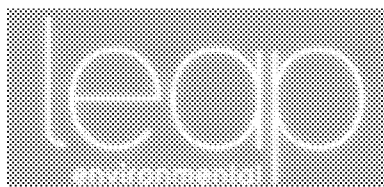
**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because NAPL or strong volatile odours not observed in the soil samples

Hazard Statements hit:

**Flam. Liq. 2; H225** "Highly flammable liquid and vapour."





---

Because of determinands:

ethylbenzene: (conc.: 1.0e-06%)

toluene: (conc.: 1.0e-06%)

benzene: (conc.: 1.0e-06%)

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

---

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.00801%)

xylene: (conc.: 1.0e-06%)

## Classification of sample: SP2-S1

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

## Sample details

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| Sample Name:  | LoW Code:                                                                                 |
| <b>SP2-S1</b> | Chapter:                                                                                  |
| Sample Depth: | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| - m           | Entry:                                                                                    |
|               | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |

## Hazard properties

None identified

## Determinands

Moisture content: 0% No Moisture Correction applied (MC)

| #  | Determinand                                                                                            |               |                | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------|---------------|----------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | CLP index number                                                                                       | EC Number     | CAS Number     |          |                   |       |              |                |       |                      |            |                |
| 1  | ☉ pH                                                                                                   |               |                |          | 8.6               | pH    |              | 8.6            | pH    | 8.6 pH               |            |                |
| 2  | ☉ arsenic { arsenic trioxide }                                                                         |               |                |          | 9.8               | mg/kg | 1.32         | 12.939         | mg/kg | 0.00129 %            |            |                |
|    | 033-003-00-0                                                                                           | 215-481-4     | 1327-53-3      |          |                   |       |              |                |       |                      |            |                |
| 3  | ☉ cadmium { cadmium sulfide }                                                                          |               |                | 1        | <0.5              | mg/kg | 1.285        | <0.643         | mg/kg | <0.00005 %           |            | <LOD           |
|    | 048-010-00-4                                                                                           | 215-147-8     | 1306-23-6      |          |                   |       |              |                |       |                      |            |                |
| 4  | ☉ chromium { ☉ chromium(III) oxide (worst case) }                                                      |               |                |          | 13                | mg/kg | 1.462        | 19             | mg/kg | 0.0019 %             |            |                |
|    |                                                                                                        | 215-160-9     | 1308-38-9      |          |                   |       |              |                |       |                      |            |                |
| 5  | ☉ copper { dicopper oxide; copper (I) oxide }                                                          |               |                |          | 16.1              | mg/kg | 1.126        | 18.127         | mg/kg | 0.00181 %            |            |                |
|    | 029-002-00-X                                                                                           | 215-270-7     | 1317-39-1      |          |                   |       |              |                |       |                      |            |                |
| 6  | ☉ lead { ☉ lead compounds with the exception of those specified elsewhere in this Annex (worst case) } |               |                | 1        | 12.4              | mg/kg |              | 12.4           | mg/kg | 0.00124 %            |            |                |
|    | 062-001-00-6                                                                                           |               |                |          |                   |       |              |                |       |                      |            |                |
| 7  | ☉ mercury { mercury dichloride }                                                                       |               |                |          | <0.5              | mg/kg | 1.353        | <0.677         | mg/kg | <0.0000677 %         |            | <LOD           |
|    | 080-010-00-X                                                                                           | 231-259-8     | 7487-94-7      |          |                   |       |              |                |       |                      |            |                |
| 8  | ☉ nickel { nickel dihydroxide }                                                                        |               |                |          | 9.8               | mg/kg | 1.579        | 15.479         | mg/kg | 0.00155 %            |            |                |
|    | 028-008-00-X                                                                                           | 235-008-5 [1] | 12054-48-7 [1] |          |                   |       |              |                |       |                      |            |                |
|    |                                                                                                        | 234-348-1 [2] | 11113-74-9 [2] |          |                   |       |              |                |       |                      |            |                |
| 9  | ☉ zinc { zinc sulphate }                                                                               |               |                |          | 39.6              | mg/kg | 2.469        | 97.784         | mg/kg | 0.00978 %            |            |                |
|    | 030-006-00-9                                                                                           | 231-793-3 [1] | 7446-19-7 [1]  |          |                   |       |              |                |       |                      |            |                |
|    |                                                                                                        | 231-793-3 [2] | 7733-02-0 [2]  |          |                   |       |              |                |       |                      |            |                |
| 10 | ☉ naphthalene                                                                                          |               |                |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    | 001-052-00-2                                                                                           | 202-049-5     | 91-20-3        |          |                   |       |              |                |       |                      |            |                |
| 11 | ☉ acenaphthylene                                                                                       |               |                |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                        | 208-917-1     | 208-98-8       |          |                   |       |              |                |       |                      |            |                |
| 12 | ☉ acenaphthene                                                                                         |               |                |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                        | 201-469-6     | 83-32-9        |          |                   |       |              |                |       |                      |            |                |
| 13 | ☉ fluorene                                                                                             |               |                |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                        | 201-695-5     | 88-73-7        |          |                   |       |              |                |       |                      |            |                |
| 14 | ☉ phenanthrene                                                                                         |               |                |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                        | 201-581-5     | 85-01-8        |          |                   |       |              |                |       |                      |            |                |
| 15 | ☉ anthracene                                                                                           |               |                |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |            | <LOD           |
|    |                                                                                                        | 204-371-1     | 120-12-7       |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                        |                                                                  |                                                              | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | M/C Applied | Conc. Not Used |
|--------|----------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|-------------|----------------|
|        | CLP Index number                                   | EC Number                                                        | CAS Number                                                   |          |                   |       |              |                |       |                      |             |                |
| 16     | ✧ fluoranthene                                     |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        |                                                    | 205-912-4                                                        | 205-44-0                                                     |          |                   |       |              |                |       |                      |             |                |
| 17     | ✧ pyrene                                           |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        |                                                    | 204-927-3                                                        | 129-00-0                                                     |          |                   |       |              |                |       |                      |             |                |
| 18     | benzo[a]anthracene                                 |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        | 601-033-00-9                                       | 200-230-8                                                        | 56-55-3                                                      |          |                   |       |              |                |       |                      |             |                |
| 19     | chrysene                                           |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        | 601-048-00-0                                       | 205-923-4                                                        | 218-01-9                                                     |          |                   |       |              |                |       |                      |             |                |
| 20     | benzo[b]fluoranthene                               |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        | 601-034-00-4                                       | 205-911-9                                                        | 205-89-2                                                     |          |                   |       |              |                |       |                      |             |                |
| 21     | benzo[k]fluoranthene                               |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        | 601-036-00-5                                       | 205-918-8                                                        | 207-08-9                                                     |          |                   |       |              |                |       |                      |             |                |
| 22     | benzo[a]pyrene; benzo[def]chrysene                 |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        | 601-032-00-3                                       | 200-026-8                                                        | 50-32-8                                                      |          |                   |       |              |                |       |                      |             |                |
| 23     | ✧ indeno[123-cd]pyrene                             |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        |                                                    | 205-893-2                                                        | 193-39-5                                                     |          |                   |       |              |                |       |                      |             |                |
| 24     | dibenz[a,h]anthracene                              |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        | 601-041-00-2                                       | 200-181-8                                                        | 53-70-3                                                      |          |                   |       |              |                |       |                      |             |                |
| 25     | ✧ benzo[ghi]perylene                               |                                                                  |                                                              |          | <0.1              | mg/kg |              | <0.1           | mg/kg | <0.00001 %           |             | <LOD           |
|        |                                                    | 205-883-8                                                        | 191-24-2                                                     |          |                   |       |              |                |       |                      |             |                |
| 26     | ✧ confirm TPH has NOT arisen from diesel or petrol |                                                                  |                                                              |          |                   |       |              |                |       |                      |             |                |
|        |                                                    |                                                                  |                                                              |          |                   |       |              |                |       |                      |             |                |
| 27     | ✧ TPH (C6 to C40) petroleum group                  |                                                                  |                                                              |          | 236               | mg/kg |              | 236            | mg/kg | 0.0236 %             |             |                |
|        |                                                    |                                                                  | TPH                                                          |          |                   |       |              |                |       |                      |             |                |
| 28     | ✧ ethylbenzene                                     |                                                                  |                                                              |          | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |             |                |
|        | 601-023-00-4                                       | 202-849-4                                                        | 100-41-4                                                     |          |                   |       |              |                |       |                      |             |                |
| 29     | toluene                                            |                                                                  |                                                              |          | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |             |                |
|        | 601-021-00-3                                       | 203-825-9                                                        | 108-88-3                                                     |          |                   |       |              |                |       |                      |             |                |
| 30     | benzene                                            |                                                                  |                                                              |          | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |             |                |
|        | 601-020-00-8                                       | 200-753-7                                                        | 71-43-2                                                      |          |                   |       |              |                |       |                      |             |                |
| 31     | xylene                                             |                                                                  |                                                              |          | 0.0822            | mg/kg |              | 0.0822         | mg/kg | 0.00000822 %         |             |                |
|        | 601-022-00-9                                       | 203-422-2 [1]<br>203-396-5 [2]<br>203-576-3 [3]<br>215-535-7 [4] | 95-47-6 [1]<br>106-42-3 [2]<br>108-88-3 [3]<br>1330-20-7 [4] |          |                   |       |              |                |       |                      |             |                |
| Total: |                                                    |                                                                  |                                                              |          |                   |       |              |                |       | 0.0415 %             |             |                |

#### Key

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

### Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because NAPL or strong volatile odours not observed in the soil samples

Hazard Statements hit:

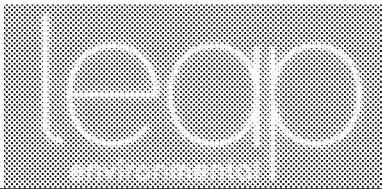
**Flam. Liq. 2; H225** "Highly flammable liquid and vapour."

Because of determinands:

ethylbenzene: (conc.: 1.0e-06%)

toluene: (conc.: 1.0e-06%)

benzene: (conc.: 1.0e-06%)



---

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0236%)

xylene: (conc.: 8.22e-06%)

## Classification of sample: SP3-S1

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

## Sample details

Sample Name: **SP3-S1** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)  
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

## Hazard properties

None identified

## Determinands

Moisture content: 0% No Moisture Correction applied (MC)

| #  | Determinand                                                                                        |              |                                | CLP Note                         | User entered data |       | Conv. Factor | Compound conc. |         | Classification value | MC Applied   | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------|--------------|--------------------------------|----------------------------------|-------------------|-------|--------------|----------------|---------|----------------------|--------------|----------------|
|    | CLP index number                                                                                   | EC Number    | CAS Number                     |                                  |                   |       |              |                |         |                      |              |                |
| 1  | pH                                                                                                 |              |                                |                                  | 10                | pH    |              | 10             | pH      | 10pH                 |              |                |
| 2  | arsenic { arsenic trioxide }                                                                       | 033-003-00-0 | 215-481-4                      | 1327-83-3                        | 36                | mg/kg | 1.32         | 47.532         | mg/kg   | 0.00475 %            |              |                |
| 3  | cadmium { cadmium sulfide }                                                                        | 043-010-00-4 | 215-147-8                      | 1306-23-8                        | 1                 | <0.5  | mg/kg        | 1.285          | <0.643  | mg/kg                | <0.00005 %   | <LOD           |
| 4  | chromium { chromium(III) oxide (worst case) }                                                      |              | 215-180-9                      | 1308-38-9                        |                   | 38.8  | mg/kg        | 1.462          | 56.708  | mg/kg                | 0.00567 %    |                |
| 5  | copper { dicopper oxide; copper (I) oxide }                                                        | 029-002-00-X | 215-270-7                      | 1317-39-1                        |                   | 94.9  | mg/kg        | 1.126          | 106.847 | mg/kg                | 0.0107 %     |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } | 032-001-00-6 |                                |                                  | 1                 | 42.3  | mg/kg        |                | 42.3    | mg/kg                | 0.00423 %    |                |
| 7  | mercury { mercury dichloride }                                                                     | 080-010-00-X | 231-259-8                      | 7487-94-7                        |                   | <0.5  | mg/kg        | 1.353          | <0.677  | mg/kg                | <0.0000677 % | <LOD           |
| 8  | nickel { nickel dihydroxide }                                                                      | 028-008-00-X | 235-998-5 [1]<br>234-348-1 [2] | 12054-48-7 [1]<br>11113-74-9 [2] |                   | 67.6  | mg/kg        | 1.579          | 106.774 | mg/kg                | 0.0107 %     |                |
| 9  | zinc { zinc sulphate }                                                                             | 030-005-00-9 | 231-793-3 [1]<br>231-793-8 [2] | 7446-19-7 [1]<br>7733-02-0 [2]   |                   | 105   | mg/kg        | 2.469          | 259.276 | mg/kg                | 0.0259 %     |                |
| 10 | naphthalene                                                                                        | 001-052-00-2 | 202-049-5                      | 91-20-3                          |                   | 0.6   | mg/kg        |                | 0.6     | mg/kg                | 0.00006 %    |                |
| 11 | acenaphthylene                                                                                     |              | 205-917-1                      | 208-96-8                         |                   | <0.1  | mg/kg        |                | <0.1    | mg/kg                | <0.00001 %   | <LOD           |
| 12 | acenaphthene                                                                                       |              | 201-489-6                      | 85-32-9                          |                   | <0.1  | mg/kg        |                | <0.1    | mg/kg                | <0.00001 %   | <LOD           |
| 13 | fluorene                                                                                           |              | 201-695-5                      | 86-73-7                          |                   | <0.1  | mg/kg        |                | <0.1    | mg/kg                | <0.00001 %   | <LOD           |
| 14 | phenanthrene                                                                                       |              | 201-581-5                      | 85-01-8                          |                   | 0.4   | mg/kg        |                | 0.4     | mg/kg                | 0.00004 %    |                |
| 15 | anthracene                                                                                         |              | 204-371-1                      | 120-12-7                         |                   | <0.1  | mg/kg        |                | <0.1    | mg/kg                | <0.00001 %   | <LOD           |

| #      | Determinand                                                                                                                                                                                |              |                                                                  | CLP Note                                                     | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------|--------------------------------------------------------------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|        | CLP index number                                                                                                                                                                           | EC Number    | CAS Number                                                       |                                                              |                   |       |              |                |       |                      |            |                |
| 16     | * fluoranthene                                                                                                                                                                             | 205-912-4    | 206-44-0                                                         |                                                              | 0.6               | mg/kg |              | 0.6            | mg/kg | 0.00006 %            |            |                |
| 17     | * pyrene                                                                                                                                                                                   | 204-627-3    | 129-00-0                                                         |                                                              | 0.5               | mg/kg |              | 0.5            | mg/kg | 0.00005 %            |            |                |
| 18     | benzo[a]anthracene                                                                                                                                                                         | 601-033-00-9 | 200-280-6                                                        | 56-55-3                                                      | 0.3               | mg/kg |              | 0.3            | mg/kg | 0.00003 %            |            |                |
| 19     | chrysene                                                                                                                                                                                   | 601-048-00-0 | 205-923-4                                                        | 218-01-9                                                     | 0.4               | mg/kg |              | 0.4            | mg/kg | 0.00004 %            |            |                |
| 20     | benzo[b]fluoranthene                                                                                                                                                                       | 601-034-00-4 | 205-911-9                                                        | 205-99-2                                                     | 0.5               | mg/kg |              | 0.5            | mg/kg | 0.00005 %            |            |                |
| 21     | benzo[k]fluoranthene                                                                                                                                                                       | 601-036-00-5 | 205-916-6                                                        | 207-06-9                                                     | 0.3               | mg/kg |              | 0.3            | mg/kg | 0.00003 %            |            |                |
| 22     | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                         | 601-032-00-3 | 200-028-5                                                        | 50-32-8                                                      | 0.4               | mg/kg |              | 0.4            | mg/kg | 0.00004 %            |            |                |
| 23     | * indeno[123-cd]pyrene                                                                                                                                                                     | 205-883-2    | 193-39-5                                                         |                                                              | 0.3               | mg/kg |              | 0.3            | mg/kg | 0.00003 %            |            |                |
| 24     | dibenz[a,h]anthracene                                                                                                                                                                      | 601-041-00-2 | 200-181-8                                                        | 53-70-3                                                      | 0.2               | mg/kg |              | 0.2            | mg/kg | 0.00002 %            |            |                |
| 25     | * benzo[ghi]perylene                                                                                                                                                                       | 205-883-6    | 191-24-2                                                         |                                                              | 0.4               | mg/kg |              | 0.4            | mg/kg | 0.00004 %            |            |                |
| 26     | * TPH (C6 to C40) petroleum group                                                                                                                                                          |              | TPH                                                              |                                                              | 8.8               | mg/kg |              | 8.8            | mg/kg | 0.00088 %            |            |                |
| 27     | * ethylbenzene                                                                                                                                                                             | 601-023-00-4 | 202-549-4                                                        | 100-41-4                                                     | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
| 28     | toluene                                                                                                                                                                                    | 601-021-00-3 | 203-625-9                                                        | 106-88-3                                                     | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
| 29     | benzene                                                                                                                                                                                    | 601-020-00-6 | 200-753-7                                                        | 71-43-2                                                      | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
| 30     | xylene                                                                                                                                                                                     | 601-022-00-9 | 202-422-2 [1]<br>203-396-5 [2]<br>203-576-3 [3]<br>215-535-7 [4] | 95-47-6 [1]<br>106-42-3 [2]<br>108-38-3 [3]<br>1330-20-7 [4] | 0.01              | mg/kg |              | 0.01           | mg/kg | 0.000001 %           |            |                |
| 31     | * cyanides { * salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | 606-007-00-5 |                                                                  |                                                              | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
| Total: |                                                                                                                                                                                            |              |                                                                  |                                                              |                   |       |              |                |       | 0.0637 %             |            |                |

#### Key

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

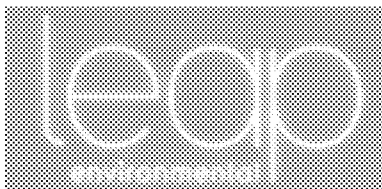
#### Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because NAPL or strong volatile odours not observed in the soil samples

Hazard Statements hit:

**Flam. Liq. 2; H225** "Highly flammable liquid and vapour."



---

Because of determinands:

ethylbenzene: (conc.: 1.0e-06%)

toluene: (conc.: 1.0e-06%)

benzene: (conc.: 1.0e-06%)

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

---

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.00088%)

xylene: (conc.: 1.0e-06%)

## Appendix A: Classifier defined and non CLP determinands

### \* pH (CAS Number: PH)

Description/Comments: Appendix C4  
Data source: WM3 1st Edition 2015  
Data source date: 25 May 2015  
Hazard Statements: None.

### \* chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462  
Description/Comments: Data from C&L Inventory Database  
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>  
Data source date: 17 Jul 2015  
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

### \* lead compounds with the exception of those specified elsewhere in this Annex (worst case)

CLP index number: 082-001-00-6  
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A  
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)  
Additional Hazard Statement(s): Carc. 1A H350  
Reason for additional Hazards Statement(s):  
03 Jun 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium  
[www.reach-lead.eu/substanceinformation.html](http://www.reach-lead.eu/substanceinformation.html) (worst case lead compounds). Review date 29/09/2015

### \* acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 17 Jul 2015  
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

### \* acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 17 Jul 2015  
Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

### \* fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 06 Aug 2015  
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

### \* phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 06 Aug 2015  
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

### \* anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 17 Jul 2015  
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

### \* fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database  
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>  
Data source date: 21 Aug 2015  
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302



✧ **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

✧ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2 H351

✧ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

✧ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

✧ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Description/Comments:

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

✧ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

CLP index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

✧ **confirm TPH has NOT arisen from diesel or petrol**

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

## Appendix B: Rationale for selection of metal species

### arsenic {arsenic trioxide}

Worst case species based on risk phrases

### cadmium {cadmium sulfide}

Worst case species based on risk phrases

### chromium {chromium(III) oxide (worst case)}

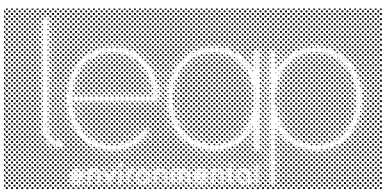
Chromium VI not detected above LoD

### copper {dicopper oxide; copper (I) oxide}

Most likely common species

### lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

Chromium VI not detected above LoD



---

**mercury {mercury dichloride}**

Worst case species based on risk phrases

**nickel {nickel dihydroxide}**

Worst case species based on risk phrases

**zinc {zinc sulphate}**

Chromium VI not detected above LoD

**cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}**

Worst case species

---

**Appendix C: Version**

HazWasteOnline Classification Engine: WM3 1st Edition v1.1, May 2018

HazWasteOnline Classification Engine Version: 2020.204.4416.8648 (22 Jul 2020)

HazWasteOnline Database: 2020.204.4416.8648 (22 Jul 2020)

This classification utilises the following guidance and legislation:

**WM3 v1.1 - Waste Classification** - 1st Edition v1.1 - May 2018  
**CLP Regulation** - Regulation 1272/2008/EC of 16 December 2008  
**1st ATP** - Regulation 790/2009/EC of 10 August 2009  
**2nd ATP** - Regulation 286/2011/EC of 10 March 2011  
**3rd ATP** - Regulation 618/2012/EU of 10 July 2012  
**4th ATP** - Regulation 487/2013/EU of 8 May 2013  
**Correction to 1st ATP** - Regulation 758/2013/EU of 7 August 2013  
**5th ATP** - Regulation 944/2013/EU of 2 October 2013  
**6th ATP** - Regulation 605/2014/EU of 5 June 2014  
**WFD Annex III replacement** - Regulation 1357/2014/EU of 18 December 2014  
**Revised List of Wastes 2014** - Decision 2014/955/EU of 18 December 2014  
**7th ATP** - Regulation 2015/1221/EU of 24 July 2015  
**8th ATP** - Regulation (EU) 2016/918 of 19 May 2016  
**9th ATP** - Regulation (EU) 2016/1179 of 19 July 2016  
**10th ATP** - Regulation (EU) 2017/776 of 4 May 2017  
**HP14 amendment** - Regulation (EU) 2017/997 of 8 June 2017  
**13th ATP** - Regulation (EU) 2018/1480 of 4 October 2018  
**14th ATP** - Regulation (EU) 2020/217 of 4 October 2019  
**POPs Regulation 2004** - Regulation 850/2004/EC of 29 April 2004  
**1st ATP to POPs Regulation** - Regulation 756/2010/EU of 24 August 2010  
**2nd ATP to POPs Regulation** - Regulation 757/2010/EU of 24 August 2010