

Lower Thames Crossing

6.3 Environmental Statement
Appendices
Appendix 10.4 – Agricultural
Land Classification Factual
Report
(Clean version)

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6.3 Environmental Statement Appendices Appendix 10.4 – Agricultural Land Classification Factual Report (Clean version)

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1 Introduction

1.1 Background

- 1.1.1 This report assesses the quality of agricultural land within the Order Limits of the A122 Lower Thames Crossing. The assessment was made in accordance with the Agricultural Land Classification (ALC) system for England and Wales (see 'Methodology' below).
- 1.1.2 The A122 Lower Thames Crossing (the Project) would provide a connection between the A2 and M2 in Kent and the M25 south of junction 29, crossing under the River Thames through a tunnel.
- 1.1.3 The A122 would be approximately 23km long, 4.25km of which would be in tunnel. On the south side of the River Thames, the Project route would link the tunnel to the A2 and M2. On the north side, it would link to the A13, M25 junction 29 and the M25 south of junction 29. The tunnel portals would be located to the east of the village of Chalk on the south of the River Thames and to the west of East Tilbury on the north side.
- 1.1.4 Junctions are proposed at the following locations:
 - a. New junction with the A2 to the south-east of Gravesend
 - b. Modified junction with the A13/A1089 in Thurrock
 - c. New junction with the M25 between junctions 29 and 30
- 1.1.5 To align with National Policy Statement for National Networks (Department for Transport, 2014) policy and to help the Project meet the Scheme Objectives, it is proposed that road user charges would be levied in line with the Dartford Crossing. Vehicles would be charged for using the new tunnel.
- 1.1.6 The Project route would be three lanes in both directions, except for:
 - a. link roads
 - b. stretches of the carriageway through junctions
 - c. the southbound carriageway from the M25 to the junction with the A13/A1089, which would be two lanes
- 1.1.7 In common with most A-roads, the A122 would operate with no hard shoulder but would feature a 1m hard strip on either side of the carriageway. It would also feature technology including stopped vehicle and incident detection, lane control, variable speed limits and electronic signage and signalling. The A122 design outside the tunnel would include emergency areas. The tunnel would include a range of enhanced systems and response measures instead of emergency areas.
- 1.1.8 The A122 would be classified as an 'all-purpose trunk road' with green signs. For safety reasons, walkers, cyclists, horse riders and slow-moving vehicles would be prohibited from using it.

- 1.1.9 The Project would include adjustment to a number of local roads. There would also be changes to a number of Public Rights of Way, used by walkers, cyclists and horse riders. Construction of the Project would also require the installation and diversion of a number of utilities, including gas pipelines, overhead electricity powerlines and underground electricity cables, as well as water supplies and telecommunications assets and associated infrastructure.
- 1.1.10 The Project has been developed to avoid or minimise significant effects on the environment. The measures adopted include landscaping, noise mitigation, green bridges, floodplain compensation, new areas of ecological habitat and two new parks.
- In line with the standards of Design Manual for Roads and Bridges LA 109
 Geology and Soils (Highways England, 2019), this report presents the findings of the detailed ALC surveys carried out within the Order Limits which have been used to inform the baseline scenario and assessment conclusions of Chapter 10: Geology and Soils (Application Document 6.1). It was not possible to undertake detailed ALC surveys across the entire area within the Order Limits due to constraints relating to the presence/likely presence of contamination land, UXO, landowner access and delays caused by the COVID 19 pandemic. In agreement with Natural England, a predictive approach was taken to fill the gaps; this approach is also fully detailed in this report.
- 1.1.12 For the purpose of this report, the assessment is divided into two parts: (i) land to the north of the River Thames in Greater London and Essex, and (ii) land to the south of the River Thames in Kent. The area within the Order Limits which comprises the River Thames has been excluded from the area calculations presented in this report. A footnote to the summary table is provided to confirm the actual total area, including the River Thames, within the Order Limits.

1.2 Competency

1.2.1 The work has been carried out by a Chartered Scientist (CSci), who is a Fellow (FI SoilSci) of the British Society of Soil Science (BSSS). The soil surveyor meets the requirements of the BSSS Professional Competency Standard (PCS) scheme for ALC (see BSSS PCS Document 2 'Agricultural Land Classification of England and Wales'1). The BSSS PCS Scheme is endorsed by, amongst others, the Department for Environment, Food and Rural Affairs (Defra), Natural England, the Science Council, and the Institute of Environmental Management and Assessment.

1.3 Methodology

- 1.3.1 This ALC assessment of all agricultural land within the Order Limits of the Project is two-fold, involving the following:
 - a. A detailed ALC survey of 475ha of land to the north and south of the River Thames in 2019, and a further 91ha to the north of the River Thames in 2022. Soil profiles were examined with a hand-held soil auger and a spade

¹ British Society of Soil Science (2022). Professional Competency Standard Scheme Document 2 'Agricultural Land Classification of England and Wales'. Accessed July 2022. https://soils.org.uk/wp-content/uploads/2022/02/Assessing-Agricultural-Land-Jan-

- at a total of 566 auger bore locations, i.e. a sampling density of one auger bore per hectare. The coordinates of the 566 auger bore locations are listed in the soil profile log given in Annex B. For practical surveying purposes, the ALC survey area was divided up into ALC Survey Parcels (SPs) which comprise approximately 20 auger bores per SP. The ALC survey was conducted at a rate of approximately 20 auger bores per SP per ALC surveyor per day.
- b. A predictive ALC grading at 650 locations to the north and south of the River Thames in 2020, and a further 343 locations in 2022. The sample points were placed in un-surveyed areas on a 100m grid pattern at a density of approximately one sample point per hectare. The coordinates of the predictive ALC grading locations are listed in Annex C. Following the predictive mapping, some changes were made to the design and Order Limits; the ALC mapping has been extended to cover these areas based on expert judgement.
- 1.3.2 Predictive ALC grading was carried out on areas where it was not possible to carry out a detailed ALC survey due to (i) access to land not being permitted by the landowner, (ii) areas of potential contamination land (red) determined separately by the Project (Environmental Statement Figure 10.5: Refined Conceptual Site Model Credible Contamination Sources (Application Document 6.2)) (iii) medium risk of unexploded ordnance as determined by Zetica (Application Document 6.3, Appendix 10.10), and (iv) restrictions due to the Coronavirus (COVID-19) pandemic outbreak in March 2020 and ongoing.
- 1.3.3 The predictive ALC grading comprised an assessment of the likely soil types present and the factors affecting soils at given locations to assess the potential land grade (using the Ministry of Agriculture, Fisheries and Food (MAFF)² Agricultural Land Classification of England and Wales: Revised Guidelines and Criteria for Grading the Quality of Agricultural Land³ (henceforth referred to as the 'ALC Guidelines'), as set out in Sections 2.8 and 3.8 of this report. It is noted that this approach has limitations when compared to ALC surveys, with the outcome for each point assessed being a modelled prediction and not definitive, albeit based on the best available data. The method adopted, however, has been used to supplement the available provisional ALC mapping at a scale of 1:250,000 (which is not considered suitable for use at a project level) to provide a greater level of refinement than using the provisional ALC 1:250,000 mapping alone. This predictive data has been used to support the data obtained via the detailed ALC surveys and the subsequent assessment of effects. Whilst the prediction may underreport individual grades of land, given the extent of land covered by detailed ALC surveys (566ha) within the Order Limits and the extent of Best and Most Versatile (BMV) land confirmed through these surveys, it is considered that the available information is sufficient to ensure that the overall assessment of significance and conclusions are robust.

² The Ministry of Agriculture, Fisheries and Food (MAFF) was incorporated within the Department for Environment, Food and Rural Affairs (Defra) in June 2001

³ Ministry of Agriculture, Fisheries and Food (1988). Agricultural Land Classification of England and Wales: Revised Guidelines and Criteria for Grading the Quality of Agricultural Land. Accessed July 2022. http://publications.naturalengland.org.uk/publication/6257050620264448.

- 1.3.4 The alternative approach to use predictive mapping to determine ALC grade of un-surveyed areas of the Order Limits was presented to and agreed with Natural England on 13 May 2020.
- 1.3.5 The ALC system provides a framework for classifying land according to the extent to which its physical or chemical characteristics impose long-term limitations on agricultural use. The ALC system divides agricultural land into five grades (Grade 1 'excellent' to Grade 5 'very poor'), with Grade 3 subdivided into Subgrade 3a 'good' and Subgrade 3b 'moderate'. Agricultural land classified as Grades 1, 2 and Subgrade 3a are categorised as BMV in Annex 2 'Glossary' of the National Planning Policy Framework (Ministry of Housing, Communities and Local Government, 2021, p.65). Further details of the ALC system and national planning policy implications are set out by Natural England⁴.

Detailed ALC survey

- 1.3.6 The detailed ALC survey involved examination of the soil's physical properties at 475 auger-bore locations in 2019, and 91 auger-bore locations in 2022. The auger-bore locations are on an approximate 100m grid pattern, at a sampling density of approximately one soil profile per hectare. The soil profile was examined at each sample location to a maximum depth of approximately 1.2m by hand with the use of a 5cm diameter Dutch (Edelman) soil auger. A total of eight soil pits, Soil Pits 1 to 8, were excavated by hand with a spade to examine certain soil physical properties, such as stone content and the structural condition of the subsoil, more closely. A description of the soil profiles at each auger bore is given in Annex C, and a description of the soil pits is given in Annex D.
- 1.3.7 The auger bores were located using a handheld Garmin eTrec Global Positioning System (GPS) device to enable the sample locations to be relocated for verification, if necessary. Where auger locations on a 100m grid pattern fell on headland, tramlines, or within 3m of a hedgerow or tree, they were relocated on agricultural land close by, to avoid compacted ground or land affected by tree roots for example.
- 1.3.8 The soil profile at each sample location was described using the Soil Survey Field Handbook: Describing and Sampling Soil Profiles (Hodgson, 1997). Each soil profile was ascribed an ALC grade following the ALC Guidelines (MAFF, 1988).
- 1.3.9 A sample of topsoil was collected at 33 auger bore locations in 2019 (Reference 1-33), and 6 auger-bore locations in 2022 (Reference 34-39), as identified in Table 1.1. The samples were sent to an accredited laboratory for particle size distribution (PSD) analysis, assessing the proportions of sand, silt and clay. This determined the definitive texture class of the topsoil, especially regarding distinguishing between medium clay loams (i.e. <27% clay) and heavy clay loams (27% to 35% clay). The results for topsoil samples collected to the north of the River Thames are given in Table 2.2 in Section 2, and those for south of the river are given in Table 3.2 in Section 4. Certificates of Analysis are given in Annex E.

⁴ Natural England (2021). Guide to assessing development proposals on agricultural land. https://www.gov.uk/government/publications/agricultural-land-assess-proposals-for-development/guide-to-assessing-development-proposals-on-agricultural-land. Accessed July 2022

Table 1.1 Sample locations for topsoil particle size distribution (PSD)

Reference	Sample UID	Easting	Northing
1	2-012	567032	170123
2	2-046	567032	170523
3	2-061	567132	171023
4	3-061	567932	172723
5	4-038	568032	172423
6	6-045	568032	173323
7	4-047	567532	172523
8	6-052	567932	173723
9	12-078	563332	180423
10	12-174	562932	181323
11	12-067	563932	180323
12	12-088	563932	180623
13	12-100	564032	180723
14	12-111	564332	180823
15	13-009	562732	182523
16	13-027	562232	183623
17	12-133	564333	180949
18	4-048	567432	172523
19	11-003	566932	178323
20	11-029	566232	179423
21	11-060	565332	179923
22	10-059	567032	177323
23	13-065	559332	183923
24	13-075	560232	184023
25	13-035	559732	183723
26	12-033	564332	180123
27	14-003	559032	183923
28	14-041	558632	184423
29	14-064	558232	184823
30	14-081	558232	185423
31	14-082	558132	185423
32	14-051	558432	184523
33	12-019	564632	180023
34	SP23 13-102	561128	184723

Reference	Sample UID	Easting	Northing
35	SP25 13-186	561828	183123
36	SP26 – 11-173	567328	179123
37	SP27 – 11-155	567328	178323
38	SP38 – 15-051	558718	187124

Predictive ALC

1.3.10 Until such time a predictive ALC methodology is developed for England, the predictive ALC for the Project follows the approach of the Welsh Government's Predictive ALC Map online⁵ which in turn is based on the ALC, October 198. An ALC grade has been determined for 650 points across un-surveyed areas where reliable desk-based information was available. In areas of extensive made ground such as Goshems Farm landfill area and Tilbury Ash Disposal landfills, reliable information on the characteristics of the soil profiles present is not available; here, an assumption of land grade has been made based on professional judgement. Following the predictive mapping, some changes were made to the design and Order Limits; the ALC mapping has been extended to cover these areas. There are 785 sample points to the north of the River Thames and 208 sample points to the south. The predictive ALC has utilised published information on climate, topography, flood risk, geology, soil, MAFF Provisional ALC (1:250,000) and Defra's Table 1.2. The data used in the predictive ALC, and the ALC grade per sample point, is shown in Annex C. The data table in Annex C is structured to follow the sequential approach of the ALC Guidelines (MAFF, 1988) which considers a number of Table 1.2.

Table 1.2 Data used in predictive ALC (see findings given as Annex C)

Data (column reference in predictive ALC table (Annex C)	Description of data and source
Auger bore location – using	the Ordnance Survey (OS) National Grid
10km Grid (A)	This identifies the OS 10km Grid Square in which the sample point is located, e.g. TQ19 (far north of the Project). See OS (2020) Factsheet 'Using the National Grid'. See Annex A
1km Grid (B)	This identifies the OS 1km Grid Square in which the sample point is located, e.g. TQ9057 (far north of the Project). See OS (2020) Factsheet 'Using the National Grid'. See Annex A.
UID (C)	UID = Unique identification for sample point, e.g. 15-051.
Easting (D)	This is a six-figure coordinate representing eastward distance on a map. The easting and northing figures are used to locate the sample point with precision and is especially useful when using a GPS.

⁵ Welsh Government (2020). Predictive Agricultural Land Classification. Accessed July 2022.https://gov.wales/agricultural-land-classification

Data (column reference in predictive ALC table (Annex C)	Description of data and source
Northing (E)	This is a six-figure coordinate representing northward distance on a map. The easting and northing figures are used to locate the sample point with precision and is especially useful when using a GIS.
Land use (F)	These are the terms and abbreviations used for soil pit and auger boring information collected during ALC surveys. These conform to definitions contained in the Soil Survey Field Handbook (Hodgson, 1997), and are available from Natural England (2016).
	For the purpose of this predictive ALC, the land use for each sample point was recorded from the latest available aerial imagery on Google Earth (Google, 2020).

Climate limitations: The climate data listed below are interpolated from climatic data required for the assessment of ALC. The climatic data are provided as a grid dataset with 5km spacings. The datasets are derived from data supplied by the Meteorological Office (1989), Bracknell, which were compiled and validated in collaboration with the Soil Survey and Land Research Centre (now National Soil Resources Institute) and the MAFF Agricultural Development and Advisory Service.

For this predictive ALC, the representative climate for ALC has been interpolated for 50no. 1km grid squares covering the Order Limits, as listed in Table 1.3 (below) and shown in Annex A. The ALC climate data used for determining (i) overall climate limitation, (ii) soil wetness and (iii) soil droughtiness for each predictive ALC sample point corresponds with the climate data for the 1km grid square in which it is located. For example, UID 1 uses ALC climate data representing 1km grid square TQ9057. The ALC climate data used for each predictive ALC sample point is shown in columns G to L in Annex C. A key to the ALC climate data headings is given below.

AAR (G)	AAR = Average Annual Rainfall (mm)
AT0 (H)	AT0 = Accumulated Temperature above 0°C between January and June (day °C)
MDW (I)	MDW = Moisture Deficit for Wheat (mm)
MDP (J)	MDP = Moisture Deficit for Potatoes (mm)
FCD (K)	FCD = Field Capacity Days (days). This is a meteorological parameter which estimates when the soil moisture deficit is zero.
Climate grade (L)	This is the overall climate limitation. This can be read from the graph (X-axis is AAR and Y-axis is ATO) given as Figure 1 of the ALC Guidelines (MAFF, 1988).
Site limitations	
Elevation (M)	This is altitude (m) above ordnance datum (AOD). For this predictive ALC, the altitude per sample location (located using six-figure easting and northing coordinates) has been derived from the 'Elevation' function on UK Grid Reference Finder (2022).
Gradient (N)	This is the angle of slope in degrees (°). This predictive ALC estimated the angle of slope at each sample point from contours on OS maps (1:25,000).

Data (column reference in predictive ALC table (Annex C)	Description of data and source
ALC grade according to gradient (O)	The angle of slope at all 650 sample points were predicted to be equal to, or less than, 7°. As such, the ALC grade at every sample point could achieve Grades 1, 2 and Subgrade 3a according to gradient. The gradient of such land is considered to be suitable for most kinds of agricultural machinery, including precision seeding and harvesting equipment, as per Table 1 of the ALC Guidelines (MAFF, 1988).
ALC grade according to micro-relief (P)	Following the ALC Guidelines (MAFF, 1988), a micro-relief limitation to agricultural land quality exists where complex changes in slope angle and direction over short distances, or where the presence of boulders or rock outcrops, even on level or gentle slopes, can severely limit the use of agricultural machinery.
	For the purpose of this predictive ALC, an assessment of potential micro-relief limitations was made for each sample location using OS maps (1:25,000) and aerial imagery on Google Earth (Google, 2022).
Flood zone (Q)	 This identifies the flood zone for each sample point. This information is available on the Environment Agency's (2020) Flood Map for Planning website. Flood zones refer to the probability of river and sea flooding, ignoring the presence of defences, as follows: Zone 1 Low Probability – Land having a less than 1 in 1,000 annual probability of river or sea flooding. Zone 2 Medium Probability – Land having between a 1 in 100 and 1 in 1,000 annual probability of river flooding; or land having between a 1 in 200 and 1 in 1,000 annual probability of sea flooding. Zone 3a High Probability – Land having a 1 in 100 or greater annual probability of river flooding; or land having a 1 in 200 or greater annual probability of sea flooding. Zone 3b The Functional Floodplain – This zone comprises land where water must flow or be stored in times of flood.
Predicted grade according to flood risk in summer (R)	This is the grade according to flood risk in summer, as per Table 2 of the ALC Guidelines (MAFF, 1988). No data were available to be able to assess flood risk in summer. For this assessment, the grade according to flood risk in summer was predicted to be Grade 1 (i.e. no limitation) at all 993 sample points.
Predicted grade according to flood risk in winter (S)	This is the grade according to flood risk in winter, as per Table 3 of the ALC Guidelines (MAFF, 1988). No data were available to be able to assess flood risk in winter. For this assessment, the grade according to flood risk in winter was predicted to be Grade 1 (i.e. no limitation) at most sample points. Where the sample point was in Flood Zone 2 or 3, it was

Data (column reference in predictive ALC table (Annex C)	Description of data and source
	noted in column S of Annex C there is a 'possible risk' of flooding in winter.
Soil and interactive limitation	ons
Bedrock (T)	This is the bedrock underlying each predictive ALC sample point identified from British Geological Survey (BGS) information at a scale of 1:50,000. This information was provided per sample point using GIS. This information is also publicly available on the BGS (2022) Geology of Britain viewer.
Superficial Deposits (U)	This is a superficial deposit (where present) which covers the bedrock. This information was determined for each predictive ALC sample point identified from BGS information at a scale of 1:50,000. This information was provided per sample point using GIS. This information is also publicly available on the BGS (2022) Geology of Britain viewer.
Soil association (V)	The whole of England and Wales is covered by the National Soil Map, comprising six soil maps at a scale of 1:250,000 with accompanying Regional Bulletins. The National Soil Map shows the location and extent of soil associations, which are groupings of spatially related soil types. There are eight soil associations within the Order Limits. The soil association per predictive ALC sample point was determined using GIS and is reported in column V, Annex C. Data and information on soil associations can be obtained from the Land Information System (LandIS) webpage (Cranfield University, 2022a).
Soil series (W)	Each soil association consists of a group of soil series. Each soil series is based on precisely defined particle-size subgroups, parent material (substrate) type, colour and mineralogical characteristics. For this predictive ALC, the predominant soil series in each soil association has been used to represent certain soil physical characteristics, such as soil texture, stone content and Wetness Class (WC). The soil series per predictive ALC sample point was determined using GIS and is reported in column W, Annex C. The Soil Survey of England and Wales (SSEW) description of soil series is available on the Land Information System (LandIS) 'Soils Guide' (Cranfield University, 2022b).
Topsoil texture (X)	This is the texture of the topsoil used to represent each predictive ALC sample point (see column X, Annex C). It is derived from the SSEW description of the predominant soil series used to represent the soil at each predictive ALC sample point, as described in 'soil series' above and identified in column W, Annex C. The SSEW description of soil series is available on the Land Information System (LandIS) 'Soils Guide' (Cranfield University, 2022b).
Wetness Class (Y)	The Wetness Class (WC) of a soil is classified according to the depth and duration of waterlogging in the soil profile and has six categories from WC I, which is well drained, to WC VI, which is

Data (column reference in predictive ALC table (Annex C)	Description of data and source
	very poorly drained. The procedure for assessing WC for ALC purposes is described in Appendix 3 of the ALC Guidelines (MAFF, 1988). For the purpose of this predictive ALC, the WC used to represent each sample point is the WC for the predominant soil series (see column W, Annex C), as determined from the SSEW description of soil associations (see column V, Annex C). The SSEW description of soil associations is available on the Land Information System (LandIS) 'Soils Guide' (Cranfield University, 2022b).
Topsoil stoniness (Z)	This is the indicative stone content in the topsoil at each predictive ALC sample point. It does not provide a predictive ALC grade according to stone content, as per Table 5, ALC Guidelines (MAFF, 1988), as insufficient data regarding stone size and content are available from published sources. The indicative information is derived from the SSEW description of the soil profile for the predominant soil series used to represent each sample point (see column W, Annex C). The SSEW description of soil series is available on the Land Information System (LandIS) 'Soils Guide' (Cranfield University, 2022b).
Predicted grade according to soil depth (AA)	This is a prediction of the ALC grade according to soil depth, as per Table 4 of the ALC Guidelines (MAFF, 1988). It utilises the depth of topsoil per predominant soil series used to represent the soil at each predictive ALC sample point (see column W, Annex C). The SSEW description of soil series is available on the Land Information System (LandIS) 'Soils Guide' (Cranfield University, 2022b).
Predicted grade according to soil wetness (AB)	This is the predictive ALC grade according to soil wetness, as per Table 6 of the ALC Guidelines (MAFF, 1988). It utilises (i) topsoil texture (see 'Topsoil Texture' above and column X, Annex C), (ii) WC (see 'Wetness Class' above and column Y, Annex C) and (iii) Field Capacity Days (see 'Climate Limitations' above and column K, Annex C).
Calculated moisture balance – wheat (AC)	The Moisture Balance (MB) value for wheat is calculated in accordance with the ALC Guidelines (MAFF, 1988) as follows: Moisture Balance (MB) for wheat = Crop Adjusted Available Water Capacity (AP) – Moisture Deficit (MD) for wheat. For the purpose of this predictive ALC, the MB value for wheat for each predictive ALC sample point (column AC, Annex C) is derived from calculated data using (i) soil profile data for the predominant soil series (see 'Soil Series' above and column W, Annex C), and (ii) relevant climate data for the respective 1km square (see 'Climate Limitations' above and columns G to L, Annex C).
Predicted grade according to soil droughtiness – wheat (AD)	This is the predicted ALC grade according to droughtiness for wheat per sample point, following Table 8 of the ALC Guidelines (MAFF, 1988). It is determined from the Moisture Balance (MB) value for wheat, as described in 'Calculated Moisture Balance – Wheat' above and column AC, Annex C.

Data (column reference in predictive ALC table (Annex C)	Description of data and source
Calculated moisture balance – potatoes (AE)	The Moisture Balance (MB) value for potatoes is calculated in accordance with the ALC Guidelines (MAFF, 1988) as follows: Moisture Balance (MB) for potatoes = Crop Adjusted Available Water Capacity (AP) – Moisture Deficit (MD) for potatoes.
	For the purpose of this predictive ALC, the MB value for potatoes for each predictive ALC sample point (column AE, Annex C) is derived from calculated data using (i) soil profile data for the predominant soil series (see 'Soil Series' above and column W, Annex C), and (ii) relevant climate data for the respective 1km square (see 'Climate Limitations' above and columns G to L, Annex C).
Predicted grade according to soil droughtiness – potatoes (AF)	This is the predicted ALC grade according to droughtiness for potatoes per sample point, following Table 8 of the ALC Guidelines (MAFF, 1988). It is determined from the Moisture Balance (MB) value for potatoes, as described in 'Calculated Moisture Balance – Potatoes' above and column AE, Annex C.
Predicted grade according to erosion (AG)	This is the predicted ALC grade according to erosion, as per pages 28 and 29 of the ALC Guidelines (MAFF, 1988). It is an estimate derived from gradient (column N, Annex C) and topsoil texture of representative soil series (column W, Annex C).
Predicted ALC according to most limiting factor (AH)	This is the final predictive ALC grade for each of the 650 sample points. It represents the most limiting (worst) grade(s) according to the climate, site, soil and interactive limitations assessed in Annex C.
MAFF provisional ALC grade (AI)	This is the Provisional ALC grade per sample point derived from MAFF Provisional (Pre-1988) ALC maps at a scale of 1:250,000. The Provisional ALC grade per sample point was determined using GIS, but the Provisional ALC information is available via Landscape/Landscape Classifications/Post-1988 ALC on the MAGIC website (Natural England, 2020). Pdf versions of the 1:250,000 Provisional ALC maps are available for download from Natural England (2010).
Defra likelihood of encountering BMV (AJ)	This is a prediction made by Defra of the likelihood of encountering BMV agricultural land, i.e. ALC Grade 1, Grade 2 and Subgrade 3a. As a key to the categories reported in column AJ, Annex C: high likelihood of BMV land (>60% area BMV); moderate likelihood of BMV land (20–60% area BMV); low likelihood of BMV land (<=20% area BMV); non-agricultural use; urban/industrial.
	The likelihood of encountering BMV at each sample point was derived using GIS information. A pdf version of the Likelihood of Encountering BMV maps is available from Natural England (2019).
Comments (AK)	This is additional information which is relevant to the predictive ALC grade per sample point.

1.3.11 The Interpolated Climate Data for ALC which have been used to represent 1km Grid Squares (1 to 100) covering the Order Limits are shown in Table 1.3.

Table 1.3 Interpolated climate data for ALC representative of 50No. 1km grid squares covering the Order Limits

Climate data point	1km grid	Height (m)	AAR	AT0	FCD	MDW	MDP	Grade according to climate only ⁶
1	TQ5688	43	601	1448	110	119	114	1
2	TQ5790	82	610	1402	114	114	108	1
3	TQ5789	68	605	1419	111	116	111	1
4	TQ5788	32	598	1460	110	120	116	1
5	TQ5785	17	593	1479	107	122	119	1
6	TQ5890	90	608	1393	113	114	107	1
7	TQ5889	40	599	1450	110	119	115	1
8	TQ5888	31	598	1461	110	120	117	1
9	TQ5887	20	595	1474	108	122	119	1
10	TQ5886	8	593	1488	107	124	121	1
11	TQ5885	24	596	1470	107	122	119	1
12	TQ5884	23	591	1472	105	123	120	1
13	TQ5883	19	584	1477	104	123	121	1
14	TQ5990	81	604	1403	112	115	109	1
15	TQ5989	47	604	1394	111	114	108	1
16	TQ5988	29	597	1463	110	121	117	1
17	TQ5987	8	594	1488	108	123	121	1
18	TQ5986	6	593	1491	106	124	122	1
19	TQ5985	33	598	1460	106	121	118	1
20	TQ5984	30	596	1464	106	122	119	1

⁶ This is the grade according to climate only, excluding any other limiting factor, i.e. site, soil and/or interactive limitations

Climate data point	1km grid	Height (m)	AAR	AT0	FCD	MDW	MDP	Grade according to climate only ⁶
21	TQ5983	24	590	1471	105	123	120	1
22	TQ5990	81	604	1403	112	115	109	1
23	TQ6085	10	593	1486	106	124	122	1
24	TQ6084	9	591	1488	105	124	122	1
25	TQ6083	-7	579	1506	104	127	125	1
26	TQ6185	5	589	1491	106	124	122	1
27	TQ6184	5	583	1492	106	125	123	1
28	TQ6183	6	577	1491	104	125	123	1
29	TQ6182	3	567	1495	102	126	124	1
30	TQ6181	8	562	1490	102	126	124	1
31	TQ6284	4	575	1493	103	125	123	1
32	TQ6283	3	570	1494	103	126	124	1
33	TQ6282	7	565	1490	102	126	124	1
34	TQ6281	16	563	1480	102	125	123	1
35	TQ6280	26	564	1469	102	124	121	1
36	TQ6383	12	570	1483	103	124	122	1
37	TQ6382	8	562	1489	102	126	124	1
38	TQ6381	20	560	1475	102	125	123	1
39	TQ6380	26	558	1469	101	125	122	1
40	TQ6379	28	557	1467	101	125	122	1
41	TQ6376	0	555	1501	102	128	126	1
42	TQ6375	2	560	1499	103	127	126	1
43	TQ6483	6	568	1490	102	125	122	1

Climate data point	1km grid	Height (m)	AAR	АТ0	FCD	MDW	MDP	Grade according to climate only ⁶
44	TQ6482	14	562	1481	102	125	123	1
45	TQ6481	30	561	1464	102	124	121	1
46	TQ6480	23	551	1472	100	126	124	1
47	TQ6479	27	553	1468	101	125	123	1
48	TQ6476	1	559	1500	103	127	126	1
49	TQ6475	2	565	1499	104	127	126	1
50	TQ6581	30	559	1463	101	124	122	1
51	TQ6580	32	555	1462	101	125	122	1
52	TQ6579	21	549	1474	100	126	124	1
53	TQ6576	-2	558	1503	103	128	127	1
54	TQ6570	69	620	1424	121	116	111	1
55	TQ6569	65	621	1429	122	116	111	1
56	TQ6681	31	562	1462	102	124	121	1
57	TQ6680	24	555	1470	101	126	123	1
58	TQ6679	13	549	1484	100	127	126	1
59	TQ6678	14	556	1479	102	126	125	1
60	TQ6677	5	556	1495	102	128	127	1
61	TQ6676	1	558	1500	103	128	127	1
62	TQ6675	8	564	1495	104	127	126	1
63	TQ6671	69	619	1423	119	116	112	1
64	TQ6670	72	618	1432	112	120	117	1
65	TQ6669	77	634	1415	109	124	114	1
66	TQ6781	29	564	1464	102	124	122	1

Climate data point	1km grid	Height (m)	AAR	AT0	FCD	MDW	MDP	Grade according to climate only ⁶
67	TQ6780	24	559	1470	102	126	123	1
68	TQ6779	6	550	1492	101	128	127	1
69	TQ6778	5	552	1493	102	128	127	1
70	TQ6777	5	555	1494	102	128	126	1
71	TQ6776	2	559	1497	103	128	127	1
72	TQ6775	0	560	1500	103	128	127	1
73	TQ6774	0	572	1501	107	127	126	1
74	TQ6773	2	577	1499	109	126	125	1
75	TQ6772	45	605	1450	115	120	116	1
76	TQ6771	60	617	1433	118	118	113	1
77	TQ6770	77	636	1392	107	122	113	1
78	TQ6769	123	657	1376	103	129	110	1
79	TQ6878	2	552	1496	102	129	128	1
80	TQ6877	11	561	1487	103	127	125	1
81	TQ6876	1	559	1498	101	128	127	1
82	TQ6875	0	561	1500	105	128	126	1
83	TQ6873	1	575	1499	107	127	125	1
84	TQ6872	33	600	1463	115	122	119	1
85	TQ6871	48	615	1447	119	119	115	1
86	TQ6870	79	635	1411	110	123	115	1
87	TQ6869	114	663	1372	102	129	127	1
88	TQ6977	0	556	1499	103	129	127	1
89	TQ6971	52	621	1442	115	120	119	1

Climate data point	1km grid	Height (m)	AAR	AT0	FCD	MDW	MDP	Grade according to climate only ⁶
90	TQ6970	98	650	1390	126	112	106	1
91	TQ6969	75	641	1416	125	115	110	1
92	TQ7071	57	627	1436	114	122	118	1
93	TQ7070	71	638	1420	111	124	116	1
94	TQ7069	84	647	1406	126	114	108	1
95	TQ7170	48	626	1446	122	119	115	1
96	TQ7171	74	637	1416	123	116	111	1
97	TQ7561	189	701	1289	141	98	87	2
98	TQ7560	108	674	1382	138	108	101	1
99	TQ7661	179	699	1300	141	99	89	2
100	TQ7660	173	699	1307	142	100	89	2
101	TQ7761	167	696	1314	141	101	90	2
102	TQ7760	173	699	1307	142	100	89	2

Key to Table 1.3:

AT0	Accumulated Temperature above 0°C (January – June)			
AAR	Average Annual Rainfall (mm)			
FCD	Field Capacity Days			
MDW	Moisture Deficit (mm) Wheat			
MDP	Moisture Deficit (mm) Potatoes			
Climate grade	Best ALC Grade According to Climate Limitation			

1.4 Structure of the remainder of this report

- 1.4.1 The remainder of this report is structured as follows:
 - a. Section 2 ALC to the north of the River Thames
 - b. Section 3 ALC to the south of the River Thames
 - c. Section 4 ALC grading route-wide

2 ALC to the north of the River Thames

2.1 Background

- 2.1.1 This section of the report sets out the findings of the ALC assessment to the north of the River Thames. It is based on a desk-based study of relevant published information on climate, topography, geology and soil in conjunction with detailed ALC surveys carried out between 18 March and 5 April 2019, and 20th and 21st June 2022 (see 'Methodology' in Section 2). This involved the examination of 342 auger-bore locations in ALC SP areas 11, 12, 13, 13a–13J, 14, 15, 16, 17, 18, 19 and 20 in 2019, and 91 auger-bore ALC SP areas 23, 24, 25, 26, 27 and 38 in 2022. A total of five soil pits (Soil Pits 1 to 5) were hand-dug with a spade to examine certain soil physical properties, such as stone content and the structural condition of the subsoil, more closely. A log of the soil profiles recorded at each auger bore is given in Annex B, and the soil pits are described in Annex D.
- 2.1.2 In addition, a predictive ALC grade has been ascribed by a comprehensive, desk-based study to 785 UID locations (i.e. 1 to 785) as shown in column C on the predictive ALC table given in Annex C.
- 2.1.3 Overall, an ALC grade has been given to 1218 locations (433 detailed ALC locations and 785 predictive ALC locations) on land within the Order Limits to the north of the River Thames.

2.2 Physical factors influencing agricultural land quality

- 2.2.1 As described in the ALC Guidelines (MAFF, 1988), the main physical factors influencing agricultural land quality are:
 - a. climate
 - b. site
 - c. soil
 - d. interactive limitations
- 2.2.2 These factors are considered in turn below.

2.3 Climate

2.3.1 Interpolated climate data per SP relevant to the determination of the grade of land within the Order Limits to the north of the River Thames is given in Table 2.1.

Table 2.1 Interpolated climate data for ALC to the north of the River Thames

Climate data point	1km grid	Heig ht (m)	AAR	AT0	FCD	MDW	MDP	Grade according to climate only
1	TQ5688	43	601	1448	110	119	114	1
2	TQ5790	82	610	1402	114	114	108	1
3	TQ5789	68	605	1419	111	116	111	1
4	TQ5788	32	598	1460	110	120	116	1
5	TQ5785	17	593	1479	107	122	119	1
6	TQ5890	90	608	1393	113	114	107	1
7	TQ5889	40	599	1450	110	119	115	1
8	TQ5888	31	598	1461	110	120	117	1
9	TQ5887	20	595	1474	108	122	119	1
10	TQ5886	8	593	1488	107	124	121	1
11	TQ5885	24	596	1470	107	122	119	1
12	TQ5884	23	591	1472	105	123	120	1
13	TQ5883	19	584	1477	104	123	121	1
14	TQ5990	81	604	1403	112	115	109	1
15	TQ5989	47	604	1394	111	114	108	1
16	TQ5988	29	597	1463	110	121	117	1
17	TQ5987	8	594	1488	108	123	121	1
18	TQ5986	6	593	1491	106	124	122	1
19	TQ5985	33	598	1460	106	121	118	1
20	TQ5984	30	596	1464	106	122	119	1
21	TQ5983	24	590	1471	105	123	120	1
22	TQ5990	81	604	1403	112	115	109	1
23	TQ6085	10	593	1486	106	124	122	1
24	TQ6084	9	591	1488	105	124	122	1
25	TQ6083	-7	579	1506	104	127	125	1
26	TQ6185	5	589	1491	106	124	122	1
27	TQ6184	5	583	1492	106	125	123	1
28	TQ6183	6	577	1491	104	125	123	1
29	TQ6182	3	567	1495	102	126	124	1
30	TQ6181	8	562	1490	102	126	124	1
31	TQ6284	4	575	1493	103	125	123	1
32	TQ6283	3	570	1494	103	126	124	1
33	TQ6282	7	565	1490	102	126	124	1
34	TQ6281	16	563	1480	102	125	123	1

Climate data point	1km grid	Heig ht (m)	AAR	AT0	FCD	MDW	MDP	Grade according to climate only
35	TQ6280	26	564	1469	102	124	121	1
36	TQ6383	12	570	1483	103	124	122	1
37	TQ6382	8	562	1489	102	126	124	1
38	TQ6381	20	560	1475	102	125	123	1
39	TQ6380	26	558	1469	101	125	122	1
40	TQ6379	28	557	1467	101	125	122	1
41	TQ6376	0	555	1501	102	128	126	1
42	TQ6375	2	560	1499	103	127	126	1
43	TQ6483	6	568	1490	102	125	122	1
44	TQ6482	14	562	1481	102	125	123	1
45	TQ6481	30	561	1464	102	124	121	1
46	TQ6480	23	551	1472	100	126	124	1
47	TQ6479	27	553	1468	101	125	123	1
48	TQ6476	1	559	1500	103	127	126	1
49	TQ6475	2	565	1499	104	127	126	1
50	TQ6581	30	559	1463	101	124	122	1
51	TQ6580	32	555	1462	101	125	122	1
52	TQ6579	21	549	1474	100	126	124	1
53	TQ6576	-2	558	1503	103	128	127	1
54	TQ6570	69	620	1424	121	116	111	1
55	TQ6569	65	621	1429	122	116	111	1
56	TQ6681	31	562	1462	102	124	121	1
57	TQ6680	24	555	1470	101	126	123	1
58	TQ6679	13	549	1484	100	127	126	1
59	TQ6678	14	556	1479	102	126	125	1
60	TQ6677	5	556	1495	102	128	127	1
61	TQ6676	1	558	1500	103	128	127	1
62	TQ6675	8	564	1495	104	127	126	1
63	TQ6671	69	619	1423	119	116	112	1
64	TQ6670	72	618	1432	112	120	117	1
65	TQ6669	77	634	1415	109	124	114	1
66	TQ6781	29	564	1464	102	124	122	1
67	TQ6780	24	559	1470	102	126	123	1
68	TQ6779	6	550	1492	101	128	127	1
69	TQ6778	5	552	1493	102	128	127	1

Climate data point	1km grid	Heig ht (m)	AAR	АТ0	FCD	MDW	MDP	Grade according to climate only
70	TQ6777	5	555	1494	102	128	126	1
71	TQ6776	2	559	1497	103	128	127	1
72	TQ6775	0	560	1500	103	128	127	1
73	TQ6774	0	572	1501	107	127	126	1
MIN		-7	549	1393	100	114	107	1
MAX		90	634	1506	122	128	127	1
AVERAGE		24	578	1471	105	124	121	1

Key to Table 2.1:

ALT	Average Altitude mAOD
AT0	Accumulated Temperature above 0°C (January – June)
AAR	Average Annual Rainfall (mm)
FCD	Field Capacity Days (FCD)
MDW	Moisture Deficit (mm) Wheat
MDP	Moisture Deficit (mm) Potatoes
Climate grade	Best ALC Grade According to Climate Limitation

- 2.3.2 With reference to Figure 1 'Grade according to climate' on page 6 of the ALC Guidelines (MAFF, 1988), there is no overall climatic limitation to the quality of agricultural land within the Order Limits to the north of the River Thames. This means that agricultural land could be graded as ALC Grade 1 in overall climatic terms, in the absence of any other limiting factor, i.e. site, soil and/or interactive limitations.
- 2.3.3 Agricultural land within the Order Limits to the north of the River Thames is predicted to be at field capacity (i.e. near saturation point) for between 100 to 122 (average 105) days per year, mainly over the late autumn, winter and early spring. In combination with topsoil texture and WC, this will cause an 'interactive limitation' to agricultural land quality, i.e. soil wetness and/or soil droughtiness (see Section 2.6 below).

2.4 **Site**

- 2.4.1 From north to south, the study area assessed in this section extends from the M25 in Havering to the A13 in Thurrock. The Project then extends to the River Thames, at the tunnel portal to the west of East Tilbury.
- 2.4.2 Regarding the ALC Guidelines, agricultural land quality can be limited by one or more of three main site factors as follows:
 - a. Gradient
 - b. Micro-relief (i.e. complex change in slope angle over short distances)
 - c. Risk of flooding

Gradient and micro-relief

2.4.3 The land within the Order Limits to the north of the River Thames is undulated. The altitude is approximately 39mAOD at the highest point to the north-east of Cranham/M25 junction 29. The lowest elevation (approximately 1mAOD) occurs to the north of the River Thames, near the East Tilbury marshes. The quality of agricultural land is not limited by gradient as the angle of slope does not exceed 7° (see Table 1 of the ALC Guidelines). Likewise, the quality of agricultural land within the Order Limits to the north of the River Thames is not limited by micro-relief.

Risk of flooding

2.4.4 From the Environment Agency Flood Map for Planning website⁷, the land within the Order Limits to the north of the River Thames is located in Flood Zone 1, at low risk of flooding by rivers or the sea. The Tilbury area benefits from flood defences. Agricultural land quality is not limited by flood risk in the summer or winter, following Tables 2 and 3 of the ALC Guidelines (MAFF, 1988), respectively.

2.5 Soil

Geology/soil parent material

- 2.5.1 BGS information available online⁸ has been utilised to identify the bedrock and any Superficial (Drift) Deposits over the bedrock. This information helps to determine the parent material from which the soil has formed.
- 2.5.2 The BGS information (1:50,000) indicates that the land within the Order Limits to the north of the River Thames is underlain mainly by Thames Group (clay, silt, sand and gravel) at the northern end, with smaller regions of White Chalk

⁷ Environment Agency (2020). Flood Map for Planning. Accessed May 2020. https://flood-map-for-planning.service.gov.uk/.

⁸ British Geological Survey (2020). Geology of Britain viewer. Accessed May 2020. http://www.bgs.ac.uk/discoveringGeology/geologyOfBritain/viewer.html.

Subgroup (chalk), the Thanet Formation (sand, silt and clay) and the Lambeth Group (clay, silt, sand and gravel) in the south.

2.5.3 The BGS information (1:50,000) shows that the bedrock within the Project to the north of the River Thames is covered by Head (clay, silt, sand and gravel) and Alluvium (clay, silt, sand and gravel) to the north of Orsett. The Boyn Hill Gravel Member (sand and gravel) is common over the land around Chadwell St Mary, with a limited extent of the Black Park Gravel Member (sand and gravel) to the north-east of the town. Alluvium (clay, silt, sand, and peat) is widespread at the southern end, close to the River Thames.

Published information on soil

- 2.5.4 The SSEW soil map of South East England (Sheet 5) at a scale of 1:250,000 and accompanying bulletin reports that agricultural land within the Order Limits to the north of the River Thames is covered by soils in (from north to south) the Windsor, Fladbury 3, Shabbington, Fyfield 4, Hucklesbrook, and Wallasea 1 associations. From SSEW information, the soils in each association may be described as follows.
- 2.5.5 Windsor Association: Soils in this association are present to the north of Orsett. This association consists of slowly permeable clayey soils occurring in Eocene clays and associated thin drifts in south Essex and Hertfordshire, and in north Surrey, Kent, Berkshire, and south Hampshire. The Windsor series, pelostagnogley soils, is the most extensive. These soils have grey and ochreous mottled clayey subsurface horizons that become increasingly brown with depth. These soils remain waterlogged for long periods in winter (WC IV), and they need effective underdrainage to achieve good yields of grass and cereals.
- 2.5.6 Fladbury 3 Association: This association occurs between South Ockendon and Orsett. It comprises clayey alluvial soils on river floodplains. Fladbury series, grey clayey pelo-alluvial gley soils, usually cover two-thirds of the ground and subsidiary silty or loamy soils the remainder, often where tributaries join the main valley. The principal soils are affected by high groundwater and are waterlogged for long periods in winter (WC IV). Fladbury soils are often slowly permeable, even within 40cm depth. Winter flooding is common, but when protected by embankments and improved by field drainage measures the soils are only seasonally waterlogged (WC III) in the dry south-east of the region.
- 2.5.7 Shabbington Association: This association is in a small region in the north Ockendon area. It is developed on River Terrace Deposits and Head which are commonly adjacent to, or just above, river floodplains; these deposits are usually underlain at depth by clayey formations. The soils are developed in fine loamy drifts which vary in stoniness and commonly rest on bedded sandy or gravelly material. Shabbington soils are typical argillic gleys, usually mottled

⁹ Jarvis, M.G., Allen, R.H., Fordham, S.J., Hazelden, J., Moffat, A.J. and Sturdy, R.G. (1984). Bulletin No. 15 'Soils and their Use in South East England', in Findlay, D.C. (ed.) Soil Survey of England and Wales. Harpenden: Rothamsted Experimental Station.

- grey and brown immediately below the topsoil. These soils are affected by high groundwater levels and are seasonally waterlogged (WC II or III).
- 2.5.8 Fyfield 4 Association: This association occurs in a small area to the south of Orsett. The main Fyfield soils are brown coarse, loamy, typical argillic brown earths which pass down to sand or sandstone, as do the associated Frilford and Standhill soils, which are brown, medium and fine sandy argillic brown sands, respectively. There are some Wickham and Kingston soils, mottled fine loamy over clayey typical stagnogley soils. Bursledon soils, slightly mottled fine loamy, stagnogleyic argillic brown earths over interbedded sands and clays, occur in places. On Tertiary beds in London and north-west Kent, Fyfield and Standhill soils are the most common on Thanet Beds with finer-textured Bursledon, Kingston and Wickham soils on the overlying Woolwich and Reading Beds. Fyfield, Frilford and Standhill soils are permeable, well drained (WC I) and readily absorb excess winter rain.
- 2.5.9 Hucklesbrook Association: soils in this association are found to the north and north-east of Chadwell St Mary. It consists mainly of well-drained non-calcareous coarse loamy and sandy soils on river terraces adjacent to and slightly above floodplains along the lower Thames valley in Essex. The most extensive soils, Hucklesbrook and Maplestead series, are coarse loamy typical argillic brown earths. Hucklesbrook soils have gravel at moderate depth, but Maplestead soils are deeper. Ebstree soils, argillic brown sands in sandy drift, also occur. The principal soils are developed in loamy or sandy drift over flint gravel. Their distribution is related to depth to gravel, which is particularly variable in south Essex, and to groundwater level. Hucklesbrook, Maplestead and Ebstree soils are permeable and well drained (WC I) so readily accept winter rain. Where the land is used intensively, surface soil structure breaks down and becomes compacted which reduces infiltration.
- Wallasea 1 Association. Soils in this association are located between West 2.5.10 Tilbury and the River Thames. The soils in this association are developed in marine alluvium of the coastal marshes of north Kent, Essex, and Suffolk. Sea walls, river embankments and other works protect the land from daily flooding as much is below high tide level. The soil pattern is simple with non-calcareous clayey Wallasea pelo-alluvial gley soils, and clayey Newchurch pelo-calcareous alluvial gley soils occupying almost all the land. High groundwater levels cause severe waterlogging (WC V). Some drainage improvement can be achieved by a close network of ditches as subsoils are relatively permeable but, since most land is in grass, water levels are kept high to contain stock. With pipe drainage, the soils may be only seasonally waterlogged (WC IV). In Eastern England, the water regimes depend mainly on arterial drainage systems. Without adequate control of groundwater, Wallasea and Newchurch soils are waterlogged for long periods in winter (WC IV). Subsoils are relatively permeable, and waterlogging is mainly caused by groundwater. After pipe drains have been installed, pumped catchments or areas with efficient tidal sluices are occasionally or seasonally waterlogged (WCs II or III).

Soil survey

- 2.5.11 The detailed soil surveys carried out between 18 March and 5 April 2019, and 20 to 21 June 2022, determined the presence of a range of soils which are comparable with the soil associations described above.
- 2.5.12 A log of the 433 soil profiles recorded during the auger survey is given in Annex B. A description of the soil profile recorded at Soil Pits 1 to 5 is given in Annex D.
- 2.5.13 A sample of topsoil was collected at 24 auger bore locations and the samples were sent to an accredited laboratory for analysis of PSD, based on the British Standard Institution particle size grades. The certificate of analysis is provided as Annex E. The texture of the topsoil per auger bore/sample, along with the corresponding soil association as mapped by the SSEW, is shown in Table 2.2.

Table 2.2 Topsoil texture – north of the River Thames (Appendix 2, ALC Guidelines)

Reference	Sample UID	Easting	Northing	Topsoil texture	Soil association
1	12-078	563332	180423	mSL	Hucklesbrook
2	12-174	562932	181323	mSZL/mSL	Hucklesbrook
3	12-067	563932	180323	mSZL	Hucklesbrook
4	12-088	563932	180623	mSZL	Hucklesbrook
5	12-100	564032	180723	MCL/mSZL	Hucklesbrook
6	12-111	564332	180823	mSZL	Hucklesbrook
7	13-009	562732	182523	HCL	Windsor
8	13-027	562232	183623	С	Windsor
9	12-133	564333	180949	MCL	Hucklesbrook
10	11-003	566932	178323	mSL	Hucklesbrook
11	11-029	566232	179423	mSZL	Hucklesbrook
12	11-060	565332	179923	mSZL	Hucklesbrook
13	10-059	567032	177323	С	Wallasea 1
14	13-065	559332	183923	MCL	Shabbington
15	13-075	560232	184023	С	Windsor
16	13-035	559732	183723	mSZL	Hucklesbrook
17	12-033	564332	180123	mSL	Hucklesbrook
18	14-003	559032	183923	SCL/MCL	Shabbington
19	14-041	558632	184423	mSL	Shabbington
20	14-064	558232	184823	mSL	Shabbington
21	14-081	558232	185423	mSL	Shabbington
22	14-082	558132	185423	MCL/mSZL	Shabbington
23	14-051	558432	184523	mSL	Shabbington
24	12-019	564632	180023	mSZL	Hucklesbrook

Reference	Sample UID	Easting	Northing	Topsoil texture	Soil association
34	SP23 13-102	561128	184723	hZCL	Windsor
35	SP25 13-186	561828	183123	hZCL	Windsor
36	SP26 – 11-173	567328	179123	hZCL	Windsor
37	SP27 – 11-155	567328	178323	mSZL	Hucklesbrook
38	SP38 – 15-051	558718	187124	ZC	Windsor

Key to Table 2.2: Topsoil texture

mSL	Medium Sandy Loam	
mSZL	Medium Sandy Silt Loam	
MCL	Medium Clay Loam	
SCL	Sandy Clay Loam	
HCL	Heavy Clay Loam	
hZCL	Heavy Silty Clay Loam	
С	Clay	
ZC	Silty Clay	

2.6 Interactive limitations

2.6.1 From the published information and the results of the detailed ALC surveys, it has been determined that the quality of agricultural land within the Order Limits to the north of the River Thames is limited by (i) soil droughtiness and/or (ii) soil wetness, as described below.

Soil droughtiness

2.6.2 Moisture balance (MB) calculations for the ALC reference crops (winter wheat and maincrop potatoes) have been carried out for the soil profiles examined on site. The MB values per auger bore are given in Annex B. The ALC grade according to soil droughtiness is determined per auger bore in Annex B, following Table 8 'Grade according to droughtiness' of the ALC Guidelines (MAFF, 1988), as shown in Table 2.3.

Table 2.3 Grade according to soil droughtiness (Table 8 of the ALC Guidelines)

Grade/subgrade	Moisture Balance limits (mm)		
	Wheat	Potatoes	
1	+30	+10	
2	+5	-10	
3a	-20	-30	
3b	-50	-55	
4	<-50	<-55	

- 2.6.3 The soil associations to the north of the River Thames where the main limitation to agricultural land quality is soil droughtiness are as follows:
 - a. Shabbington: agricultural land is limited mainly by soil droughtiness to Grade 2, Subgrade 3a or Subgrade 3b.
 - b. Fyfield 4: agricultural land is limited mainly by soil droughtiness to Grade 2, Subgrade 3a or Subgrade 3b.
 - c. Hucklesbrook: agricultural land is limited mainly by soil droughtiness to Grade 2, Subgrade 3a, Subgrade 3b or Grade 4 where the subsoil is very stony (gravelly).

Soil wetness

2.6.4 From the ALC Guidelines, a soil wetness limitation exists where 'the soil water regime adversely affects plant growth or imposes restrictions on cultivations or grazing by livestock'. The ALC grade according to soil wetness within the Order Limits to the north of the River Thames is given in Table 2.4 (based on Table 6 'Grade According to Soil Wetness – Mineral Soils' in the ALC Guidelines (MAFF, 1988)).

Table 2.4 ALC grade according to soil wetness

WC	Texture of the top 25cm	<126 Field Capacity Days
ı	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	1
	Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay Loam*	1
	Heavy Clay Loam**	2
	Sandy Clay/Silty Clay/Clay	3a(2)
П	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	1
	Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay Loam*	2
	Heavy Clay Loam**	3a(2)
	Sandy Clay/Silty Clay/Clay	3a(2)
III	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	2
	Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay Loam*	3a(2)
	Heavy Clay Loam**	3b(3a)
	Sandy Clay/Silty Clay/Clay	3b(3a)
IV	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	3a
	Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay Loam*	3b
	Heavy Clay Loam**	3b
	Sandy Clay/Silty Clay/Clay	3b

- 2.6.5 The soil associations to the north of the River Thames where soil wetness is the main limitation to agricultural land quality are as follows:
 - Windsor: agricultural land quality is limited by soil wetness to Subgrade 3a or Subgrade 3b.
 - b. Fladbury 3: agricultural land quality is limited by soil wetness to predominantly Subgrade 3b.
 - c. Wallasea 1: agricultural land quality is limited by soil wetness to predominantly Subgrade 3b.

2.7 Detailed ALC to the north of the River Thames

- 2.7.1 From a detailed ALC survey to the north of the River Thames, it has been determined that the quality of agricultural land is limited mainly by soil droughtiness and/or soil wetness to Grade 2, Subgrade 3a and Subgrade 3b. Some well-drained soils with sandy loam or sandy clay loam topsoil over well-drained sandy clay loam subsoil (c.f. Shabbington association) have no significant limitations and are mapped as Grade 1. Conversely, some well-drained soil profiles with very stony (gravelly) subsoil (c.f. Hucklesbrook association) are limited by soil droughtiness to Grade 4.
- 2.7.2 The area (ha) and proportion of land in each grade has been measured from an ALC map given as Figure 1. The area measurements are given in Table 2.5.

2.8 ALC grading to the north of the River Thames

2.8.1 The findings of the detailed ALC survey and the predictive ALC have been combined to produce an ALC map (Figure 1) to show the ALC grades on agricultural land to the north of the River Thames. The area (ha) and proportion (%) of land in each grade have been determined from the ALC map (Figure 1). The area measurements are given in Table 2.5. The map is accurate to a scale of 1:10,000, any further enlargement would lead to inaccuracies. As set out in the ALC Guidelines (1988), the grade or subgrade of land is determined by the most limiting factor present. When classifying land, the overall climate and site limitations should be considered first as these can have an overriding influence on the grade. Land is graded and mapped without regard to present field boundaries, except where they coincide with permanent physical features. A degree of variability in physical characteristics within a discrete area is to be expected. If the area includes a small proportion of land of different quality, the variability can be considered as a function of the mapping scale. Thus, small, discrete areas of a different ALC grade may be identified on large scale maps, whereas on smaller scale maps it may only be feasible to show the predominant grade.

Table 2.5 Project to the north of the River Thames - ALC

ALC grade	Area (ha)	Area (%)
Grade 1 (excellent)	7.40	0.4
Grade 2 (very good)	71.02	4.2
Subgrade 3a (good)	343.85	20.4
BMV	422.26	25.0
Subgrade 3b (moderate)	670.13	39.7
Grade 4 (poor)	26.63	1.6
Grade 5 (very poor)	0.00	0.0
Non-agricultural	567.61	33.7
Total	1686.63	100.0

^{*} Please note, all numbers here are rounded to 2 decimal points and are displayed true for the whole number. *

2.8.2 The total areas of each ALC grade within the Order Limits along the entire Project route, i.e. both north and south of the River Thames, are given in Section 4.

3 ALC to the south of the river Thames

3.1 Background

- 3.1.1 This section of the report sets out the findings of the ALC assessment to the south of the River Thames. It is based on a desk-based study of relevant published information on climate, topography, geology and soil in conjunction with detailed soil surveys carried out between 18 March and 5 April 2019 (see 'Methodology' in Section 2). There were no detailed ALC surveys carried out to the south of the River Thames in 2022. The 2019 ALC surveys involved the examination of 133 auger bore locations in ALC SP areas 1 to 8, as shown on the soil profile log given in Annex B. A total of three soil pits (Soil Pits 5 to 8) were hand-dug with a spade to examine certain soil physical properties, such as stone content and the structural condition of the subsoil, more closely. A log of the soil profiles recorded at each auger bore is given in Annex B, and the soil pits are described in Annex D.
- 3.1.2 In addition, a predictive ALC grade has been ascribed by a comprehensive, desk-based study to 124 UID locations (527 to 650) as shown in column C on the predictive ALC table given in Annex C.
- 3.1.3 Overall, an ALC grade has been given to 257 locations (133 detailed ALC locations and 124 predictive ALC locations) on land within the Order Limits to the south of the River Thames, at a density of approximately one sample location per hectare.

3.2 Physical factors influencing agricultural land quality

- 3.2.1 As described in the ALC Guidelines (MAFF, 1988), the main physical factors influencing agricultural land quality are:
 - a. climate
 - b. site
 - c. soil
 - d. interactive limitations
- 3.2.2 These factors are considered in turn below.

3.3 Climate

3.3.1 Interpolated climate data per SP relevant to the determination of the grade of land within the Project to the south of the River Thames is given in Table 3.1.

Table 3.1 Interpolated climate data for ALC to the south of the River Thames

Climate data point	1km grid	Heigh t (m)	AAR	AT0	FCD	MDW	MDP	Grade according to climate only
74	TQ6773	2	577	1499	109	126	125	1
75	TQ6772	45	605	1450	115	120	116	1
76	TQ6771	60	617	1433	118	118	113	1
77	TQ6770	77	636	1392	107	122	113	1
78	TQ6769	123	657	1376	103	129	110	1
79	TQ6878	2	552	1496	102	129	128	1
80	TQ6877	11	561	1487	103	127	125	1
81	TQ6876	1	559	1498	101	128	127	1
82	TQ6875	0	561	1500	105	128	126	1
83	TQ6873	1	575	1499	107	127	125	1
84	TQ6872	33	600	1463	115	122	119	1
85	TQ6871	48	615	1447	119	119	115	1
86	TQ6870	79	635	1411	110	123	115	1
87	TQ6869	114	663	1372	102	129	127	1
88	TQ6977	0	556	1499	103	129	127	1
89	TQ6971	52	621	1442	115	120	119	1
90	TQ6970	98	650	1390	126	112	106	1
91	TQ6969	75	641	1416	125	115	110	1
92	TQ7071	57	627	1436	114	122	118	1
93	TQ7070	71	638	1420	111	124	116	1
94	TQ7069	84	647	1406	126	114	108	1
95	TQ7170	48	626	1446	122	119	115	1
96	TQ7171	74	637	1416	123	116	111	1
97	TQ7561	189	701	1289	141	98	87	2
98	TQ7560	108	674	1382	138	108	101	1
99	TQ7661	179	699	1300	141	99	89	2
100	TQ7660	173	699	1307	142	100	89	2
101	TQ7761	167	696	1314	141	101	90	2
102	TQ7760	173	699	1307	142	100	89	2
MIN		0	552	1289	101	98	87	1
MAX		189	701	1500	142	129	128	2
AVERAGE		74	628	1417	118	118	112	1

Key to Table 3.1:

ALT	Average Altitude (m)
AT0	Accumulated Temperature above 0°C (January – June)
AAR	Average Annual Rainfall (mm)
FCD	Field Capacity Days (FCD)
MDW	Moisture Deficit (mm) Wheat
MDP	Moisture Deficit (mm) Potatoes
Climate grade	Best ALC Grade According to Climate Limitation

- 3.3.2 With reference to Figure 1 'Grade according to climate' on page 6 of the ALC Guidelines, there is no overall climatic limitation to the quality of agricultural land at the Site. This means that agricultural land across the route could be graded as ALC Grade 1 in overall climatic terms, in the absence of any other limiting factor, i.e. site, soil and/or interactive limitations.
- 3.3.3 Agricultural land across the route is predicted to be at field capacity (i.e. near saturation point) for 101 to 142 days per year (i.e. average 118), mainly over the late autumn, winter and early spring. In combination with topsoil texture, this will cause an 'interactive limitation' to agricultural land quality at the Site, i.e. soil wetness and/or soil droughtiness (see Section 3.6 below).

3.4 **Site**

- 3.4.1 A detailed description of the whole Project is given in Section 1. From north to south, the ALC study area assessed in this section extends from the south of the River Thames to the east of Gravesend to Thong, and then beyond to connect with the A2 and the M2 motorway near Strood/Rochester.
- 3.4.2 Regarding the ALC Guidelines, agricultural land quality can be limited by one or more of three main site factors as follows:
 - a. Gradient
 - b. Micro-relief
 - c. Risk of flooding

Gradient and micro-relief

- 3.4.3 The Project route to the south of the River Thames passes over the floodplain of the river which lies at an elevation of 0–1mAOD towards Lower Higham Road at 2mAOD. The land rises over a north-facing slope to Graves End Road (A266) at an elevation of 26mAOD. From here, the land continues to rise-up a north-facing slope to an elevation of approximately 75mAOD at Thong.
- 3.4.4 The quality of agricultural land is not limited by gradient, as the angle of slope does not exceed 7° (see Table 1 of the ALC Guidelines). Likewise, the quality of agricultural land at the Site is not limited by micro-relief.

Risk of flooding

3.4.5 From the Environment Agency Flood Map for Planning website¹⁰, the route to the south of the River Thames is located mainly in Flood Zone 1, at low risk of flooding by rivers or the sea. The Filborough Marshes on the floodplain off the River Thames benefit from flood defences. Agricultural land quality is not limited by flood risk in the summer or winter, following Tables 2 and 3 of the ALC Guidelines (MAFF, 1988), respectively.

3.5 Soil

Geology/soil parent material

- 3.5.1 BGS information available online¹¹ has been used to identify the bedrock underlying the Site and any Superficial (Drift) Deposits over the bedrock. This information helps to determine the parent material from which the soil has formed.
- 3.5.2 The BGS information (1:50,000) indicates that the Project route to the south of the River Thames is underlain predominately by Chalk in the Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation (undifferentiated, chalk), with small areas of the Thanet Formation (sand, silt and clay) near Filborough Farm/Lower Higham Road and around Thong.
- 3.5.3 The BGS information (1:50,000) shows that most of the bedrock is not covered by any superficial deposits, except for some Head (clay, silt, sand and gravel) in valley bottoms.

Published information on soil

- 3.5.4 The SSEW soil map of South East England (Sheet 5) at a scale of 1:250,000 and accompanying Bulletin No. 15 'Soils and their Use in South East England' (Jarvis *et al.*, 1984) show that agricultural land along the Project route to the south of the River Thames is covered by soils (from north to south) in the following soil associations: Wallasea 1, Frilsham, Coombe 1 and Fyfield 4. From SSEW information, the soils in each association may be described as follows.
- 3.5.5 Wallasea 1 association: Soils in this association are located on the floodplain of the River Thames, from the south of the river to Lower Higham Road. The soils in this association are developed in marine alluvium of the coastal marshes of north Kent, Essex and Suffolk. Sea walls, river embankments and other works protect the land from daily flooding as much is below high tide level. The soil pattern is simple with non-calcareous clayey Wallasea pelo-alluvial gley soils, and clayey Newchurch pelo-calcareous alluvial gley soils occupying almost all the land. High groundwater levels cause severe waterlogging (WC V). Some drainage improvement can be achieved by a close network of ditches as subsoils are relatively permeable but, since most land is in grass, water levels are kept high to contain stock. With pipe drainage the soils may be only seasonally waterlogged (WC IV). In eastern England, the water regimes depend

¹⁰ Environment Agency (2020). Flood Map for Planning. Accessed May 2020. https://flood-map-for-planning.service.gov.uk/.

¹¹ British Geological Survey (2020). Geology of Britain viewer. Accessed May 2020. http://www.bgs.ac.uk/discoveringGeology/geologyOfBritain/viewer.html.

- mainly on arterial drainage systems. Without adequate control of groundwater, Wallasea and Newchurch soils are waterlogged for long periods in winter (WC IV). Subsoils are relatively permeable, and waterlogging is mainly caused by groundwater. After pipe drains have been installed, pumped catchments or areas with efficient tidal sluices are occasionally or seasonally waterlogged (WCs II or III).
- 3.5.6 Frilsham association: The soils in this association occur in a small area to the north of Lower Higham Road, but are mainly present in the eastern part of the Order Limits to the south of the River Thames between Gravesend Road (A226) and Shorne Ifield Road. It consists of fine, loamy, typical argillic brown earths over Chalk at moderate depth. The soil is developed in mainly fine, loamy drift over Chalk on gently and moderately sloping ground below hills and ridges capped by either Tertiary beds or Plateau Drift. The soils are permeable and well drained (WC I), and on gentle slopes excess winter rain is rapidly absorbed into the soil.
- 3.5.7 Coombe 1 association: This association extends from the south of Gravesend Road (A226) around the eastern edge of Gravesend to Watling Street (A2) in the far south-west of the Project. It consists of well-drained, calcareous, fine silty, and often very stony soils. They are often deep in the valley bottoms, but there are shallow soils on the valley sides. This association is developed in flinty, chalky drift in broad valleys and on the lower dip slope of the Chalk in southern England. The soils are well drained (WC I), and surplus winter rain passes easily downwards through the soil and the underlying Chalk.
- 3.5.8 Fyfield 4 association: This association occurs in the eastern part of the Project from the south of Shorne Ifield Road, around Thong and to Watling Street (A2) in the far south-east. The main Fyfield soils are brown, coarse, loamy, typical argillic brown earths which pass down to sand or sandstone, as do the associated Frilford and Standhill soils, which are brown medium and fine sandy argillic brown sands, respectively. There are some Wickham and Kingston soils, mottled fine loamy over clayey typical stagnogley soils. Bursledon soils, slightly mottled fine loamy, stagnogleyic argillic brown earths over interbedded sands and clays occur in places. On Tertiary beds in London and north-west Kent, Fyfield and Standhill soils are the most common on Thanet Beds with finer-textured Bursledon, Kingston and Wickham soils on the overlying Woolwich and Reading Beds. Fyfield, Frilford and Standhill soils are permeable, well drained (WC I) and readily absorb excess winter rain.
- 3.5.9 Batcombe: Batcombe association: This association is developed in a superficial deposit of Plateau Drift and Clay-With-Flints over Seaford Chalk bedrock to the south of the M2 motorway, and east of the A229 between the villages of Kit's Coty and Westfield Sole. Variably flinty fine silty and fine loamy over clayey Batcombe and Hornbeam soils, stagnogleyic paleo-argillic brown earths, with grey mottled subsoils dominate the association. The ancillary Carstens soils, typical paleo-argillic brown earths, are fine silty over clayey and are less mottled in the subsoil with no greyish colours. The local proportions of Batcombe, Carstens and Hornbeam soils depend on the relative influences of silty aeolian drift and remnants of Tertiary (Neogene and Palaeogene) deposits on the composition of the Plateau Drift. Batcombe and Hornbeam soils have moderately permeable clayey subsoils and, where underlain at no great depth by chalk, are only occasionally waterlogged (Wetness Class II). Most excess

winter rain drains vertically down to the unsaturated Chalk and any water moving laterally over the clay enters the Chalk at the margins of the Plateau Drift.

Soil survey

- 3.5.10 The detailed soil surveys carried between 18 March and 5 April 2019 determined the presence of a range of soils which are comparable with the soil associations described above.
- 3.5.11 A log of the 133 soil profiles recorded during the auger survey is given in Annex B. A description of the soil profile recorded at Soil Pits 5 to 8 is given in Annex D.
- 3.5.12 A sample of topsoil was collected at nine auger bore locations and the samples were sent to an accredited laboratory for analysis of PSD, based on the British Standard Institution particle size grades. The certificate of analysis is provided in Annex E. The texture of the topsoil per auger bore/sample, along with the corresponding soil association as mapped by the SSEW, is shown in Table 3.2.

Table 3.2 Topsoil texture – south of the River Thames (Appendix 2, ALC Guidelines)

Reference	Sample UID	Easting	Northing	Topsoil texture	Soil association
1	2-012	567032	170123	fSL	Fyfield 4
2	2-046	567032	170523	SCL	Coombe 1
3	2-061	567132	171023	HCL	Coombe 1
4	3-061	567932	172723	HCL	Coombe 1
5	4-038	568032	172423	HCL	Coombe 1
6	6-045	568032	173323	С	Wallasea 1
7	4-047	567532	172523	HCL	Coombe 1
8	6-052	567932	173723	С	Wallasea 1
9	4-048	567432	172523	MCL	Coombe 1

Key to Table 3.2: Topsoil texture

fSL	Fine Sandy Loam
SCL	Sandy Clay Loam
MCL	Medium Clay Loam
HCL	Heavy Clay Loam
С	Clay

3.6 Interactive limitations

3.6.1 From the published information and the results of the surveys, it has been determined that the quality of agricultural land within the Order Limits to the south of the River Thames is limited by (i) soil droughtiness and/or (ii) soil wetness, as described below.

Soil droughtiness

3.6.2 Moisture balance (MB) calculations for the ALC reference crops (winter wheat and maincrop potatoes) have been carried out for the soil profiles examined on site. The MB values per auger bore are given in Annex B. The ALC grade according to soil droughtiness is determined per auger bore in Annex B, following Table 8 'Grade according to droughtiness' of the ALC Guidelines, as shown in Table 3.3.

Table 3.3 Grade according to soil droughtiness (Table 8 of the ALC Guidelines)

Grade/Subgrade	Moisture Balance limits (mm)			
	Wheat	Potatoes		
1	+30	+10		
2	+5	-10		
3a	-20	-30		
3b	-50	-55		
4	<-50	<-55		

- 3.6.3 The soil associations to the south of the River Thames where soil droughtiness is the main limitation to agricultural land quality are as follows:
 - a. Coombe 1: agricultural land is limited mainly by soil droughtiness to Grade 2, Subgrade 3a or Subgrade 3b. Most of the Subgrade 3b occurs on north-facing slopes to the north of Gravesend Road (A226), where the Coombe soils are shallow over chalk.
 - b. Fyfield 4: Most of the agricultural land with soil in the Fyfield 4 association to the south of the River Thames near Thong has fine sandy loam topsoil (see Table 3.2). This land has no significant limitation and is mainly classified as Grade 1. Some Fyfield 4 profiles are slightly limited by soil droughtiness to Grade 2 or Subgrade 3a.

Soil Wetness

3.6.4 From the ALC Guidelines, a soil wetness limitation exists where 'the soil water regime adversely affects plant growth or imposes restrictions on cultivations or grazing by livestock'. The ALC grade according to soil wetness at the Site is given in Table 3.4 (based on Table 6 'Grade According to Soil Wetness – Mineral Soils' in the ALC Guidelines (MAFF, 1988)).

Table 3.4 ALC grade according to soil wetness

WC	Texture of the top 25cm	<126 Field Capacity Days
1	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	1
	 Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay Loam* 	1 2
	Heavy Clay Loam**	3a(2)
	Sandy Clay/Silty Clay/Clay	
II	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	1
	Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay	2
	Loam*	3a(2)
	Heavy Clay Loam**	3a(2)
	Sandy Clay/Silty Clay/Clay	
III	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	2
	 Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay Loam* 	3a(2) 3b(3a)
	Heavy Clay Loam**	3b(3a)
	Sandy Clay/Silty Clay/Clay	
IV	Sand, Loamy Sand, Sandy Loam, Sandy Silt Loam	3a
	Sandy Clay Loam/Medium Silty Clay Loam/Medium Clay	3b
	Loam*	3b
	Heavy Clay Loam**	3b
	Sandy Clay/Silty Clay/Clay	
Key		
* <27% cl	ay; and ** >27% clay	

- 3.6.5 The soil associations to the south of the River Thames where soil wetness is the main limitation to agricultural land quality are as follows:
 - a. Wallasea 1: agricultural land quality on the Filborough Marshes, i.e. the floodplain to the south the River Thames, is limited by soil wetness to predominantly Grade 4.

3.7 Detailed ALC to the south of the River Thames

- 3.7.1 From a detailed ALC survey to the south of the River Thames, it has been determined that the quality of agricultural land is limited mainly by soil droughtiness and/or soil wetness to Grade 2, Subgrade 3a and Subgrade 3b. Some well-drained soils with fine sandy loam topsoil (c.f. Fyfield association) to the south of Thong have no significant limitations and are mapped as Grade 1. Conversely, some profiles on the Filborough Marshes have clay topsoil over slowly permeable clay subsoil, which is waterlogged for long periods over the winter (WC IV), which is limited by soil wetness to Grade 4.
- 3.7.2 The area (ha) and proportion of land in each grade has been measured from an ALC map given as Figure 1. The area measurements are given in Table 3.5.

3.8 ALC grading to the south of the River Thames

3.8.1 The findings of the detailed ALC survey and the predictive ALC have been combined to produce an ALC map (Figure 1) to show the ALC grade of agricultural land to the south of the River Thames. The area (ha) and proportion (%) of land in each grade have been determined from the ALC map (Figure 1). The area measurements are given in Table 3.5. The map is accurate to a scale of 1:10,000, but any further enlargement would lead to inaccuracies. As set out in the ALC Guidelines (1988), the grade or subgrade of land is determined by the most limiting factor present. When classifying land the overall climate and site limitations should be considered first as these can have an overriding influence on the grade. Land is graded and mapped without regard to present field boundaries, except where they coincide with permanent physical features. A degree of variability in physical characteristics within a discrete area is to be expected. If the area includes a small proportion of land of different quality, the variability can be considered as a function of the mapping scale. Thus, small, discrete areas of a different ALC grade may be identified on large scale maps, whereas on smaller scale maps it may only be feasible to show the predominant grade.

Table 3.5 Project to the south of the River Thames – ALC

ALC grade	Area (ha)	Area (%)
Grade 1 (excellent)	17.22	2.7
Grade 2 (very good)	263.34	40.6
Subgrade 3a (good)	68.11	10.5
BMV ¹²	348.67	53.7
Subgrade 3b (moderate)	47.06	7.2
Grade 4 (poor)	19.75	3.0
Grade 5 (very poor)	0.00	0.0
Non-agricultural	233.80	36.0
Total	649.29	100.0

^{*} Please note, all numbers here are rounded to 2 decimal points and are displayed true for the whole number. *

3.8.2 The total areas of each ALC grade within the Order Limits along the entire Project route, i.e. both north and south of the River Thames, are given in Section 4.

¹² BMV agricultural land is ALC Grade 1, Grade 2 and Subgrade 3a as per the National Planning Policy Framework (Ministry of Housing, Communities and Local Government, 2021).

4 ALC grading route-wide

The findings of the detailed ALC survey and the predictive ALC for land to the 4.1.1 north of the River Thames (see Section 2) and south of the River Thames (see Section 3) have been combined to produce an ALC map (Figure 1) to show the location and extent of the land in each ALC grade. The area (ha) and proportion (%) of land in each grade along the entire Project route (i.e. north and south of the River Thames) have been determined from the ALC map (Figure 1). The area measurements are given in Table 4.1. The map is accurate to a scale of 1:10,000, any further enlargement would lead to inaccuracies. As set out in the ALC Guidelines (1988), the grade or subgrade of land is determined by the most limiting factor present. When classifying land the overall climate and site limitations should be considered first as these can have an overriding influence on the grade. Land is graded and mapped without regard to present field boundaries, except where they coincide with permanent physical features. A degree of variability in physical characteristics within a discrete area is to be expected. If the area includes a small proportion of land of different quality, the variability can be considered as a function of the mapping scale. Thus, small, discrete areas of a different ALC grade may be identified on large scale maps, whereas on smaller scale maps it may only be feasible to show the predominant grade.

Table 4.1 Project: route-wide ALC

ALC grade	North of River Thames	South of Route-wide: agrical land Thames		: agricultural	gricultural Route-wide: total la	
	Area (ha)	Area (ha)	Area (ha)	Agricultural land area (%)	Total land area (ha)	Total land area (%)
1	7.40	17.22	24.61	1.6	24.61	1.1
2	71.02	263.34	334.36	21.8	334.36	14.3
3a	343.85	68.11	411.96	26.8	411.96	17.6
BMV	422.26	348.67	770.94	50.2	770.9	33.0
3b	670.13	47.06	717.20	46.7	717.20	30.7
4	26.63	19.75	46.37	3.0	46.37	2.0
5	0.00	0.00	0.00	0.0	0.00	0.0
Non- agricultural/ other land	567.61	233.80	-	-	801.41	34.3
Total	1686.63	649.29	1534.51	100.0	2335.92	100.0

^{*} Please note, all numbers here are rounded to 2 decimal points and are displayed true for the whole number.

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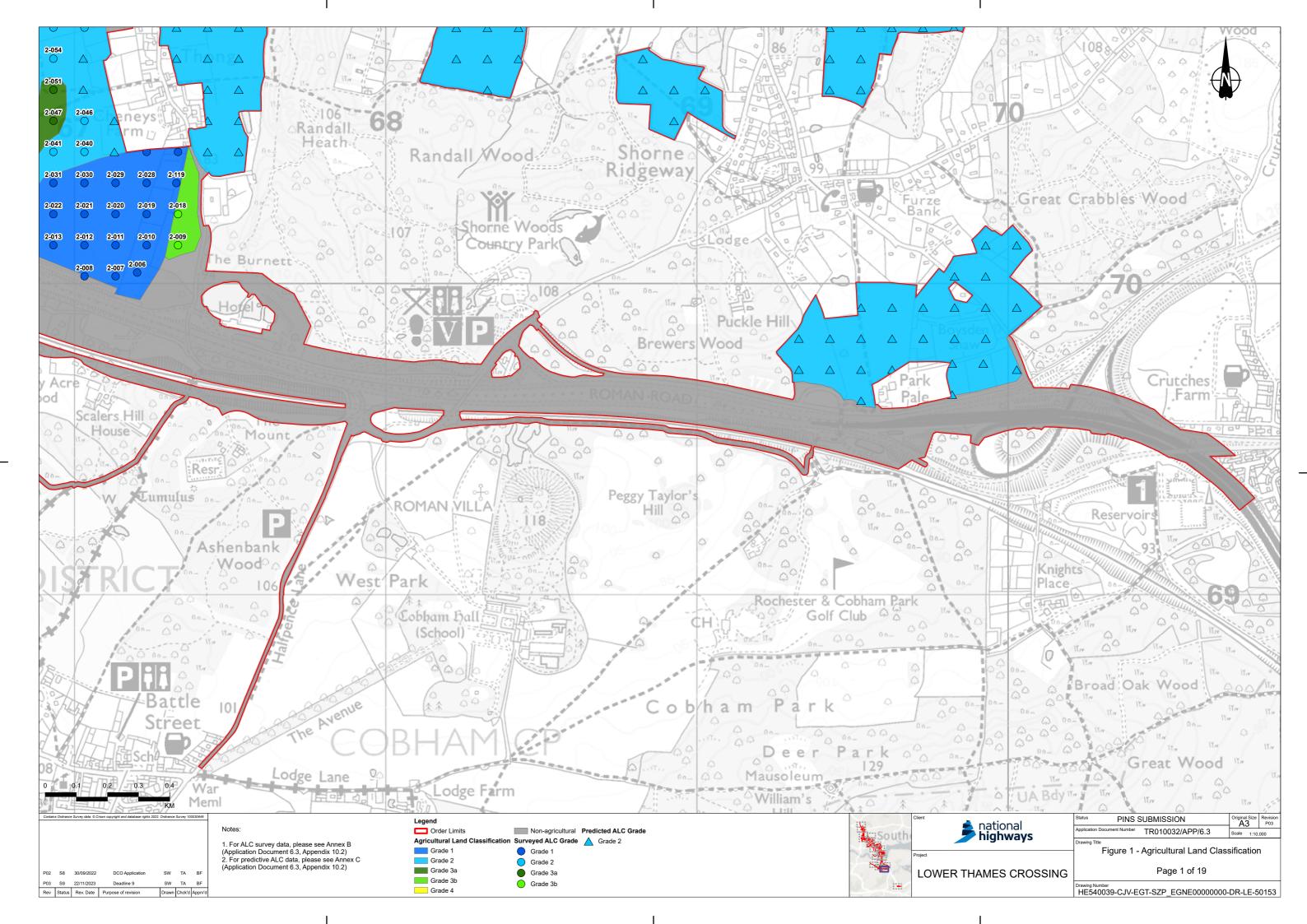
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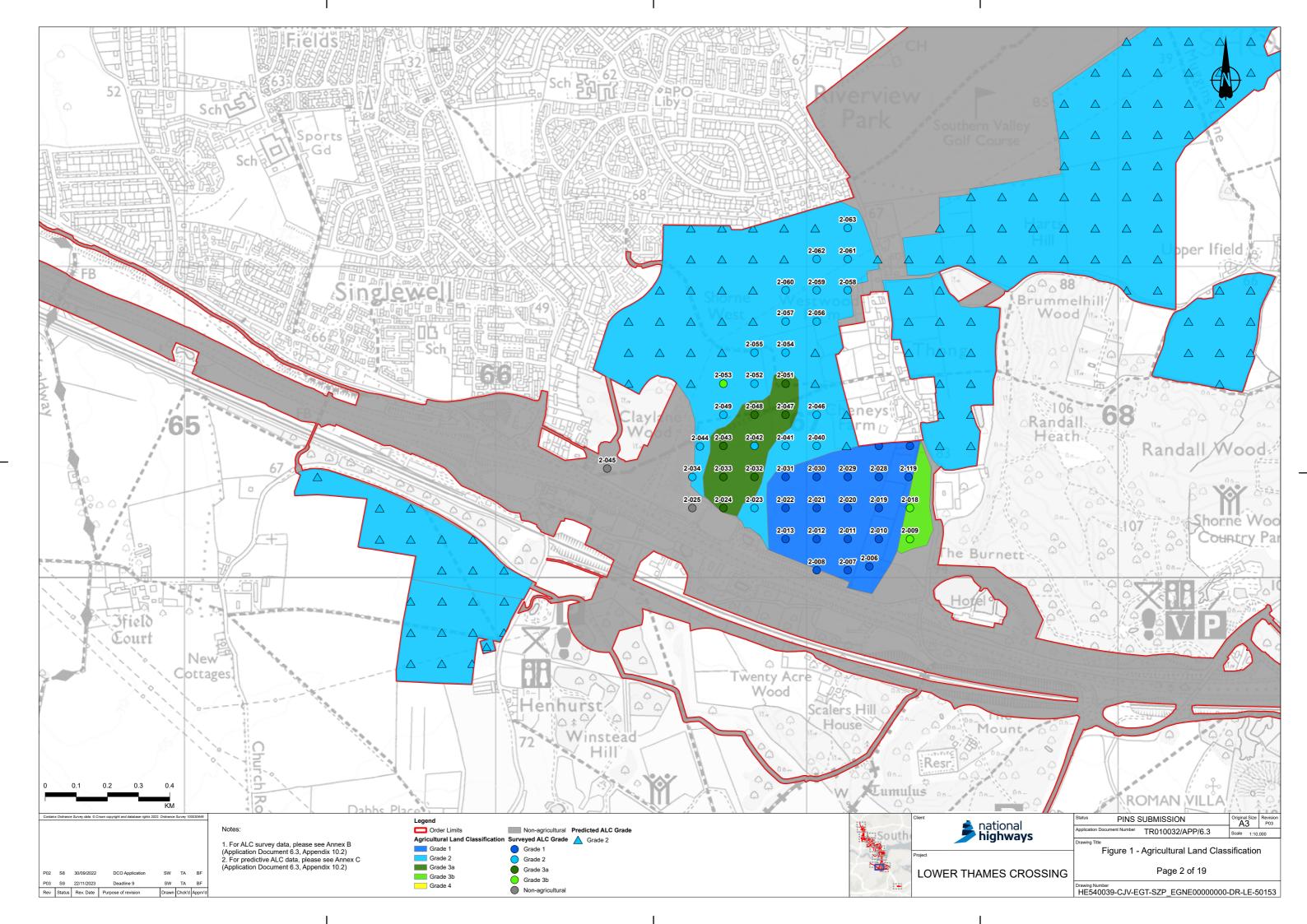
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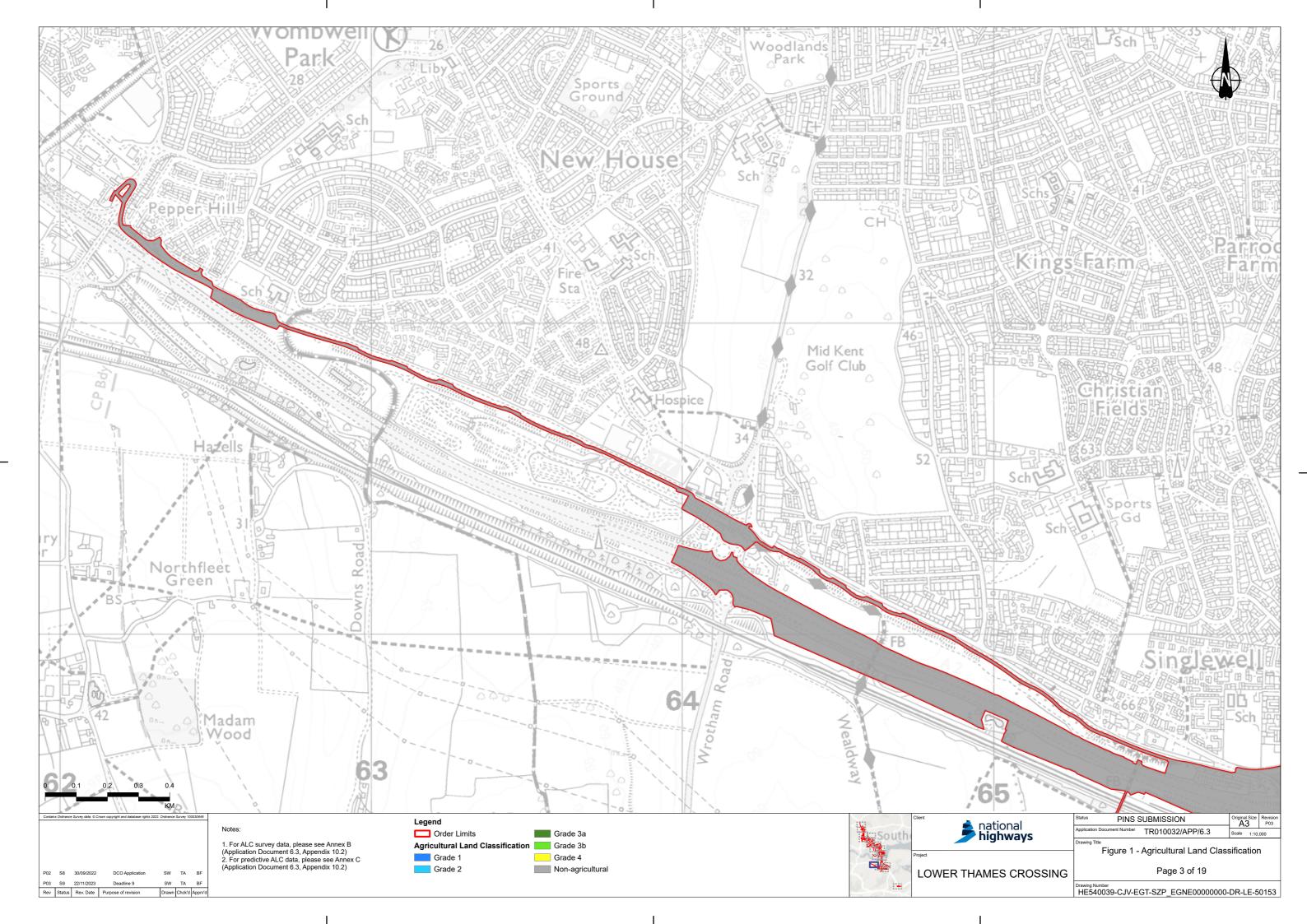
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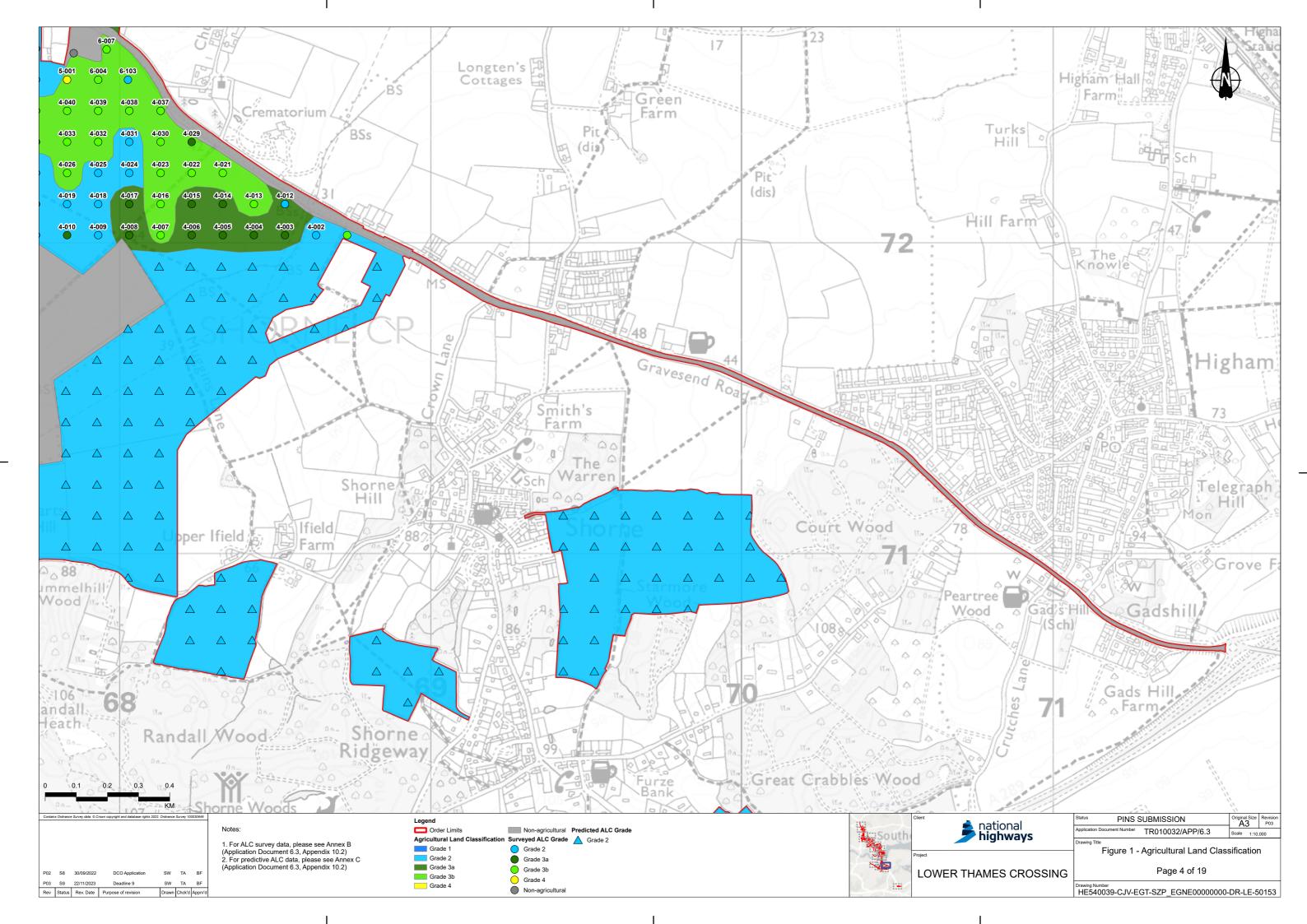
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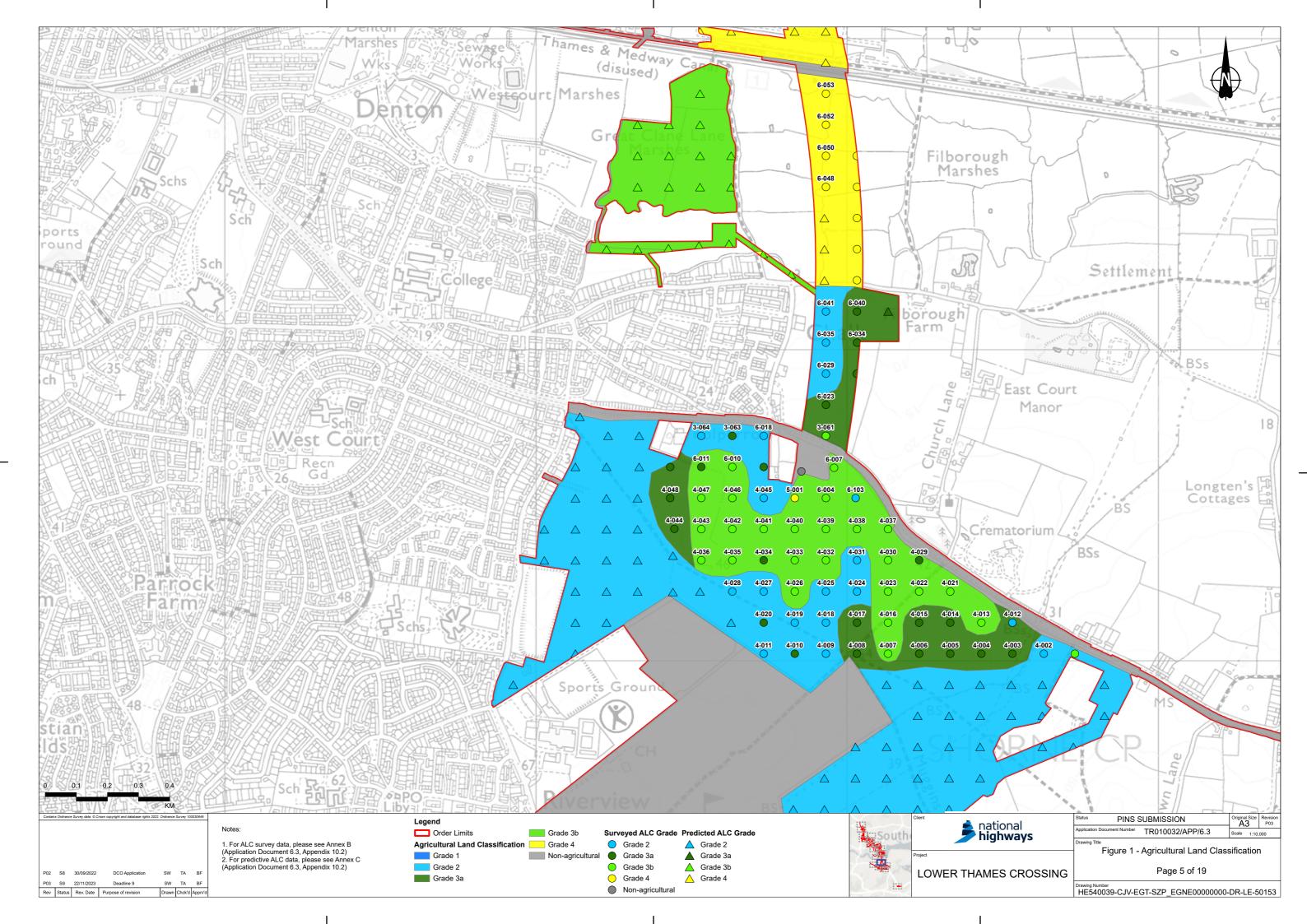
Figure 1: Agricultural Land Classification

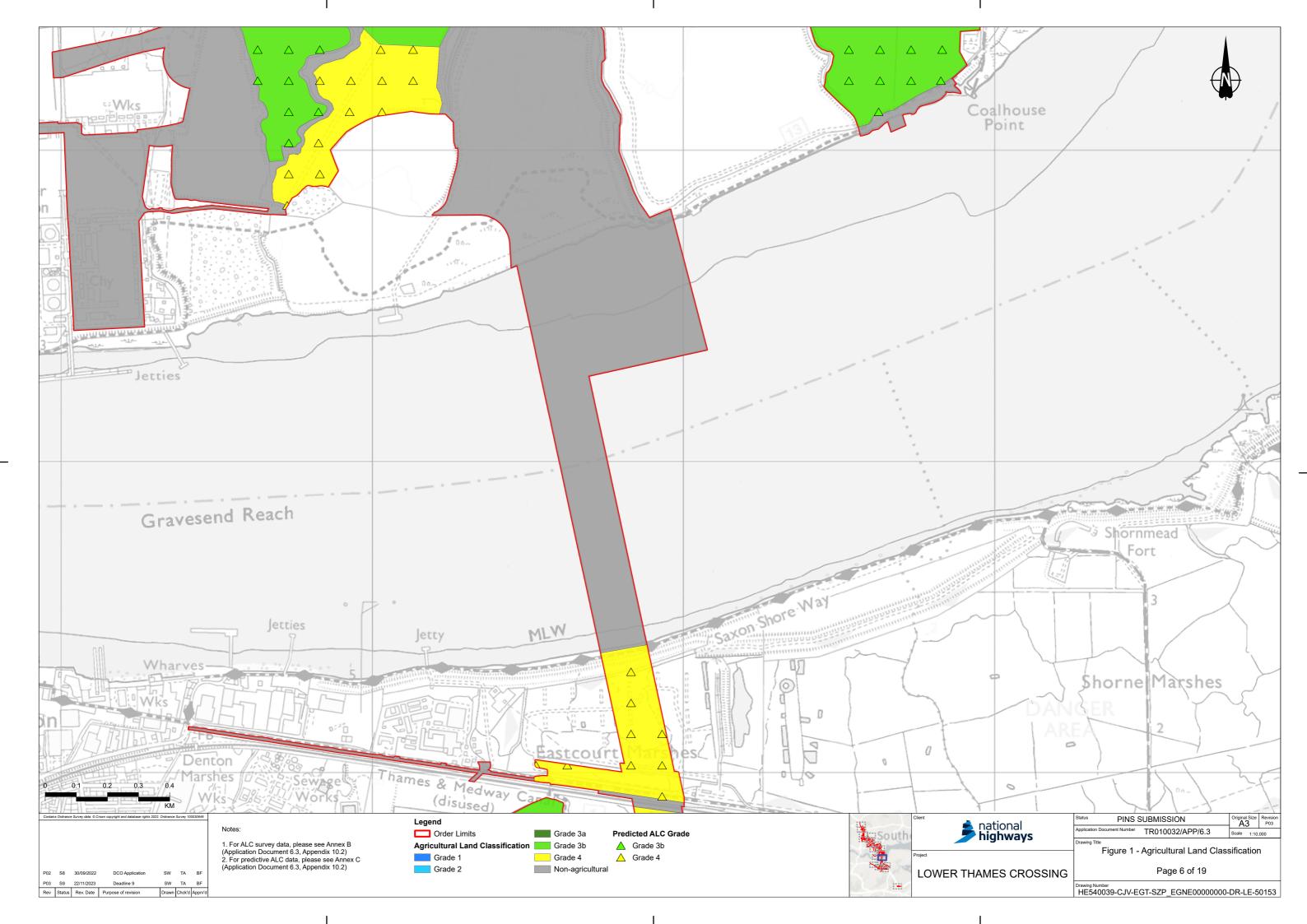


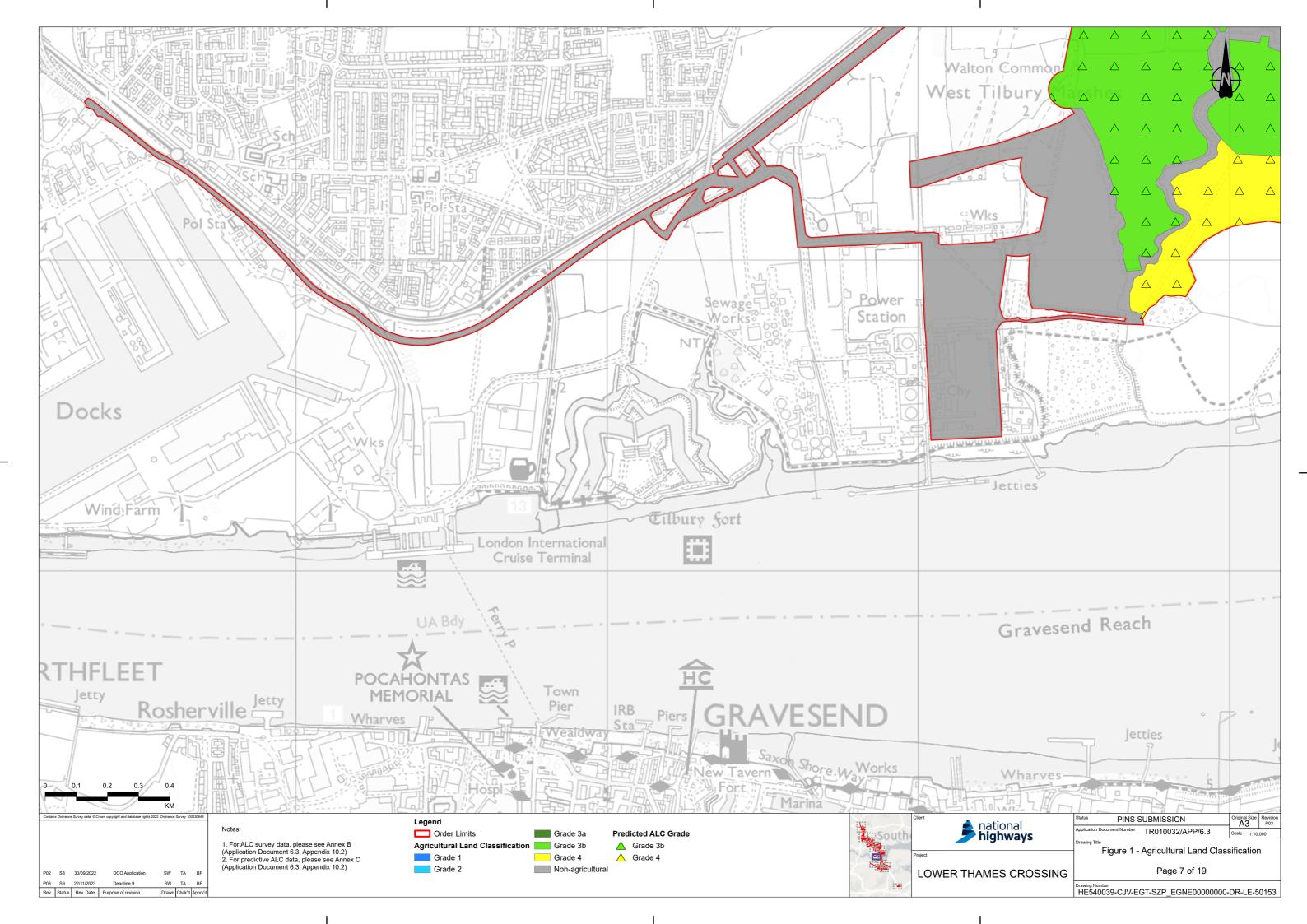


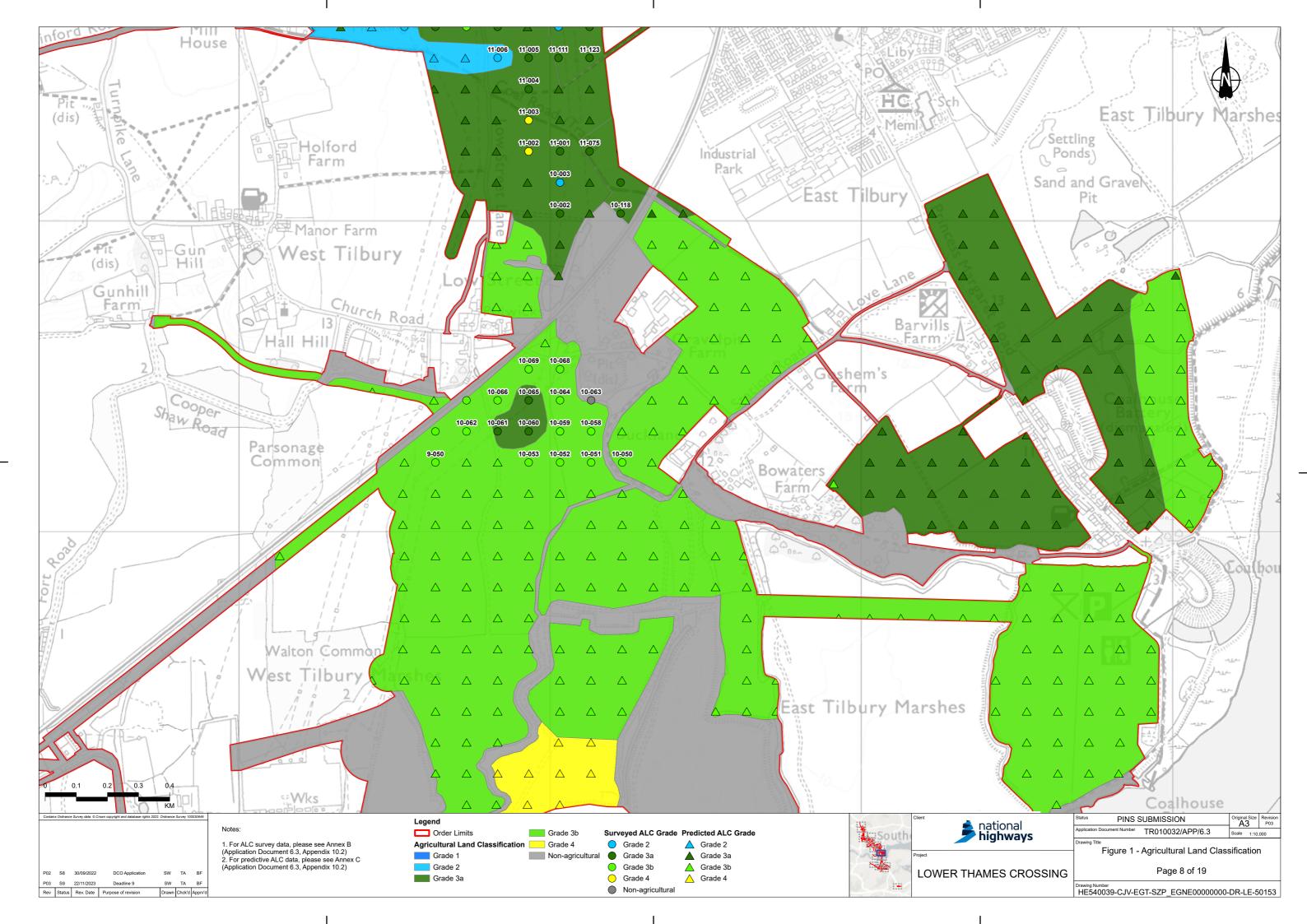


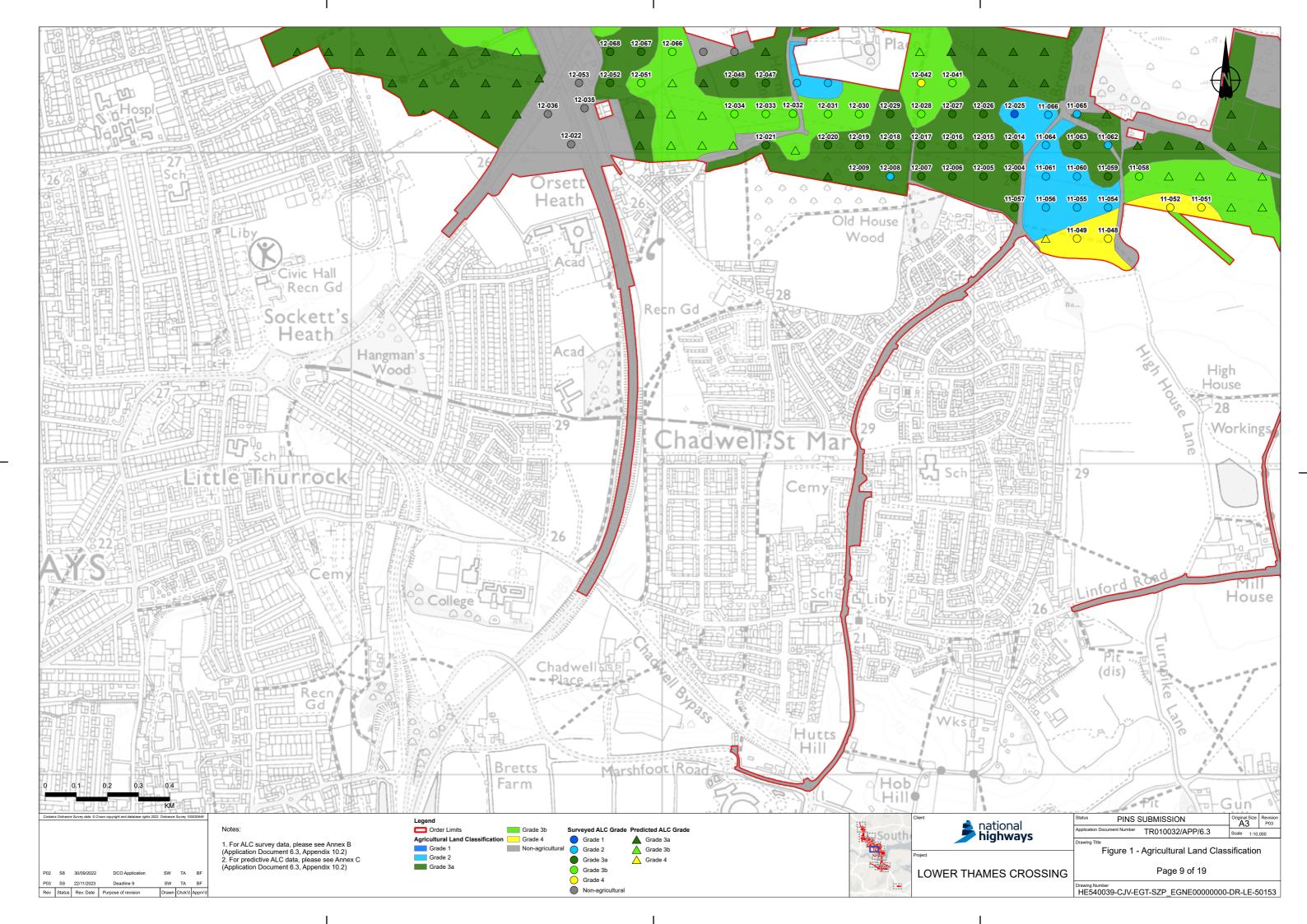


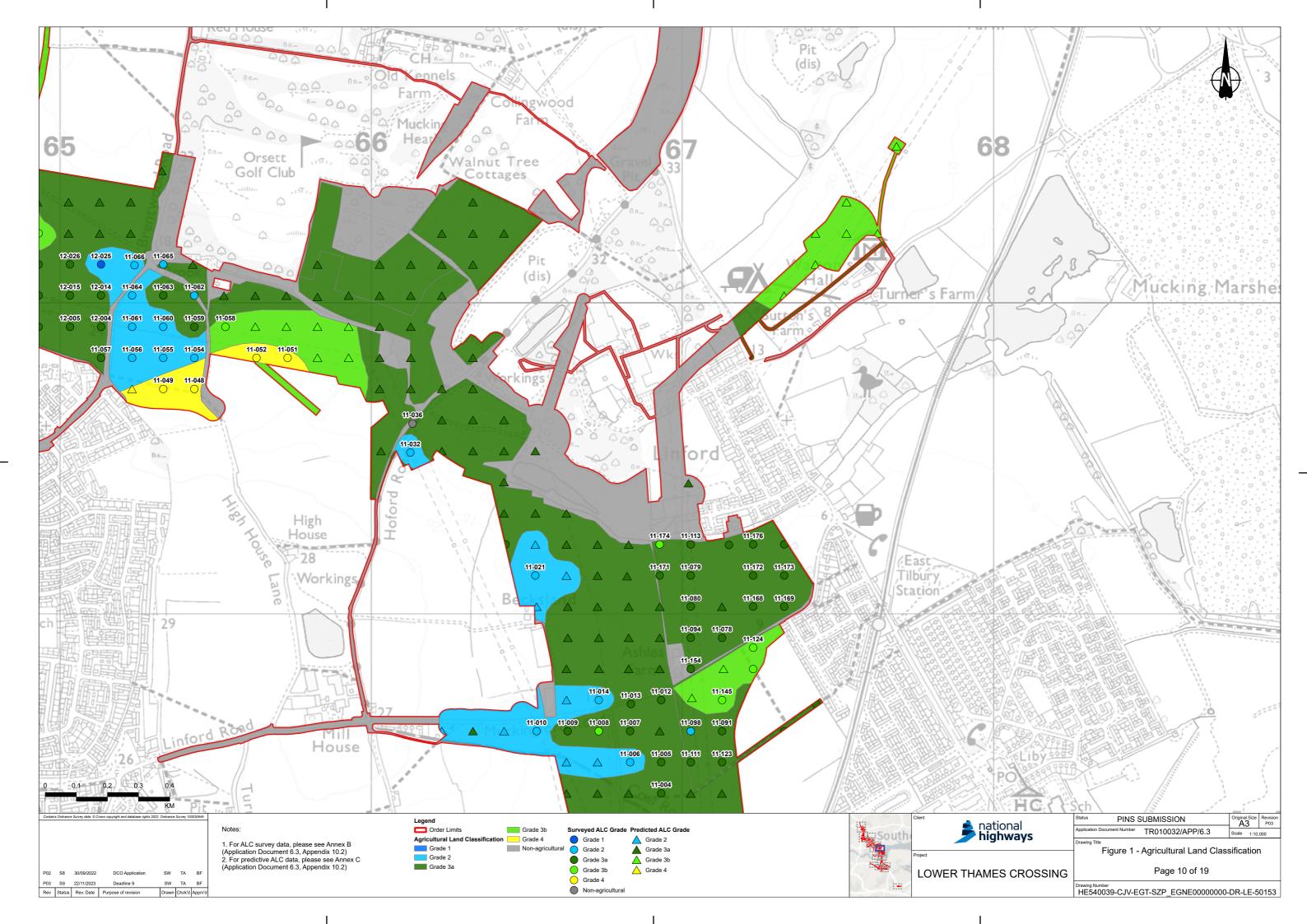


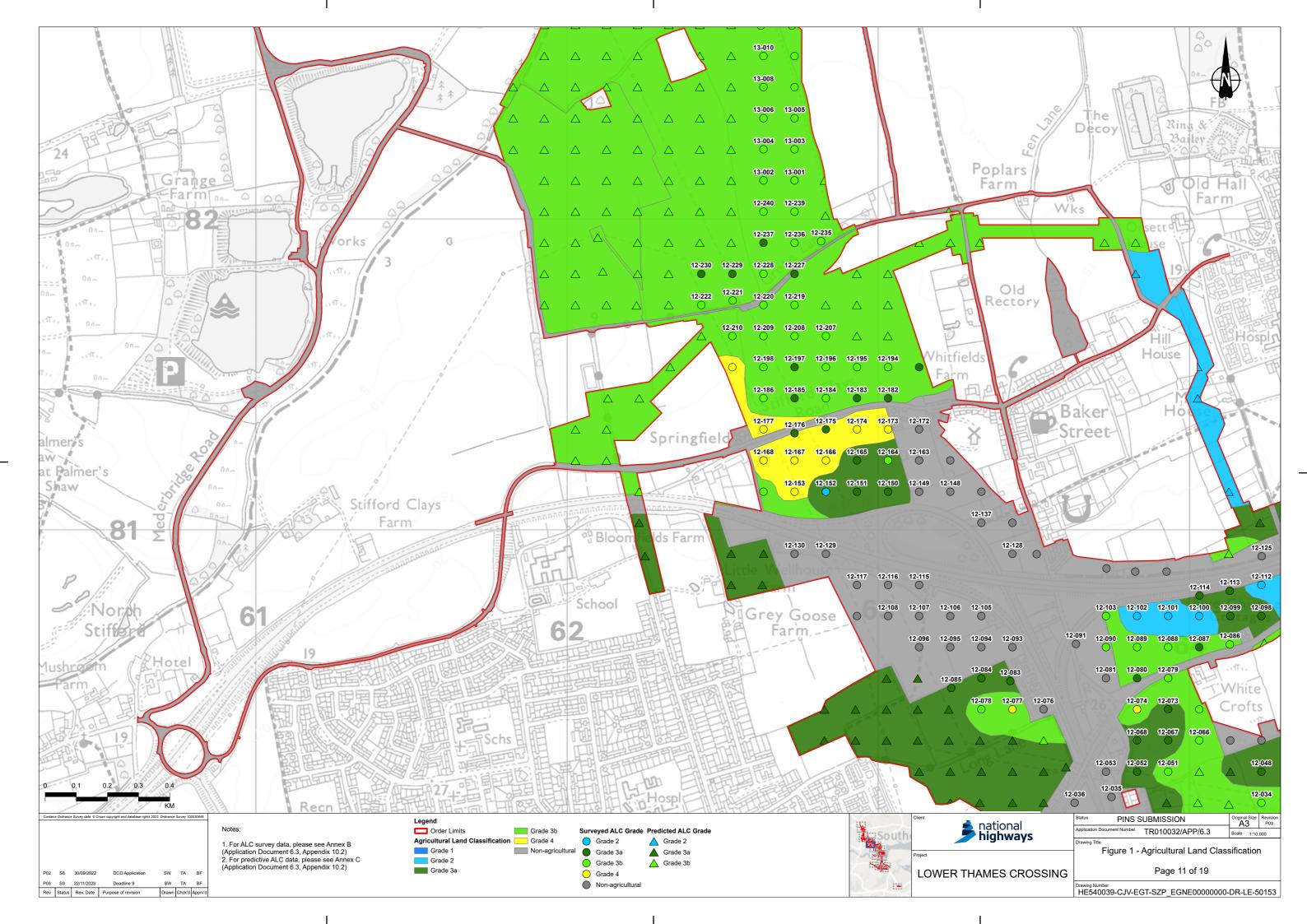


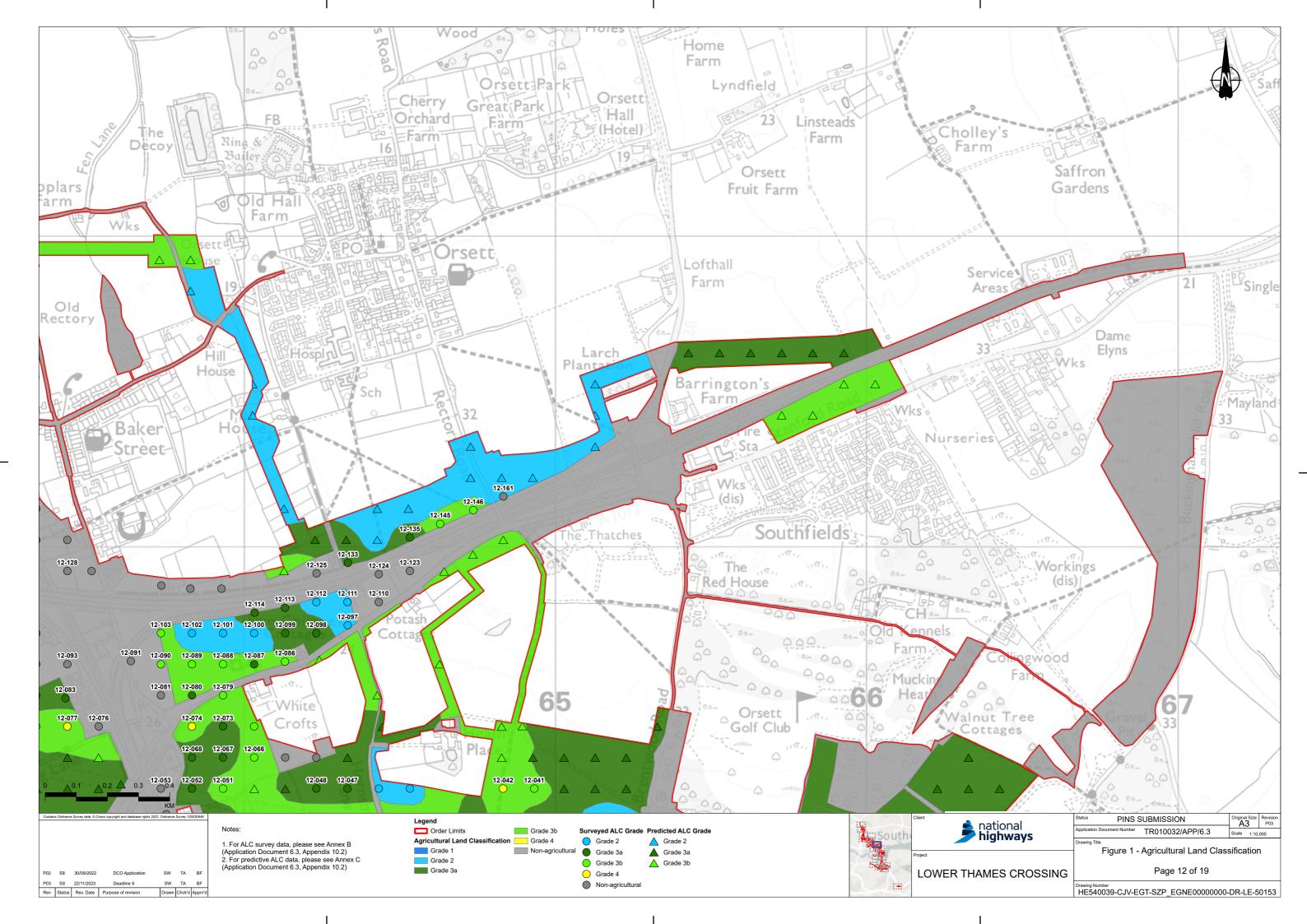


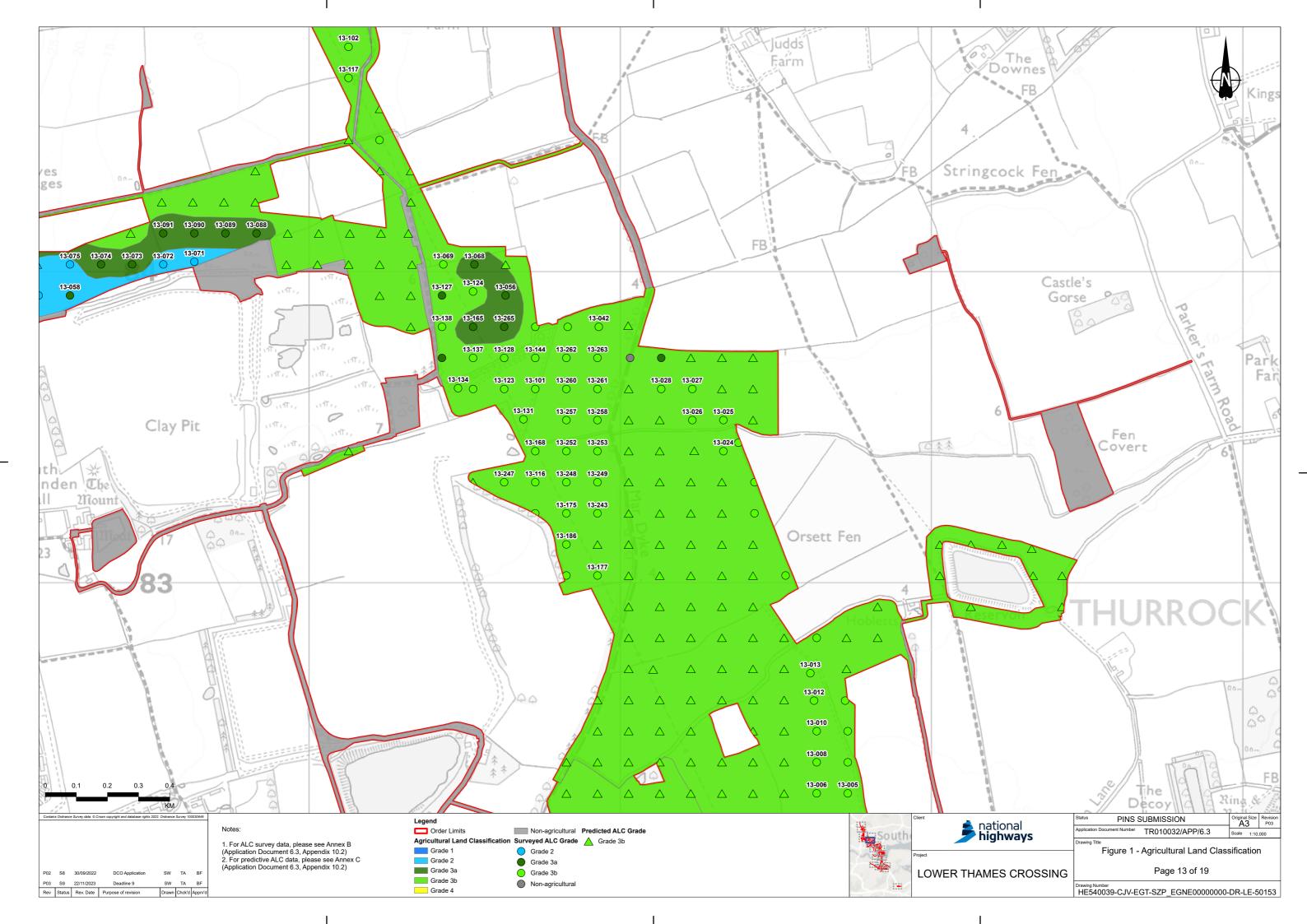


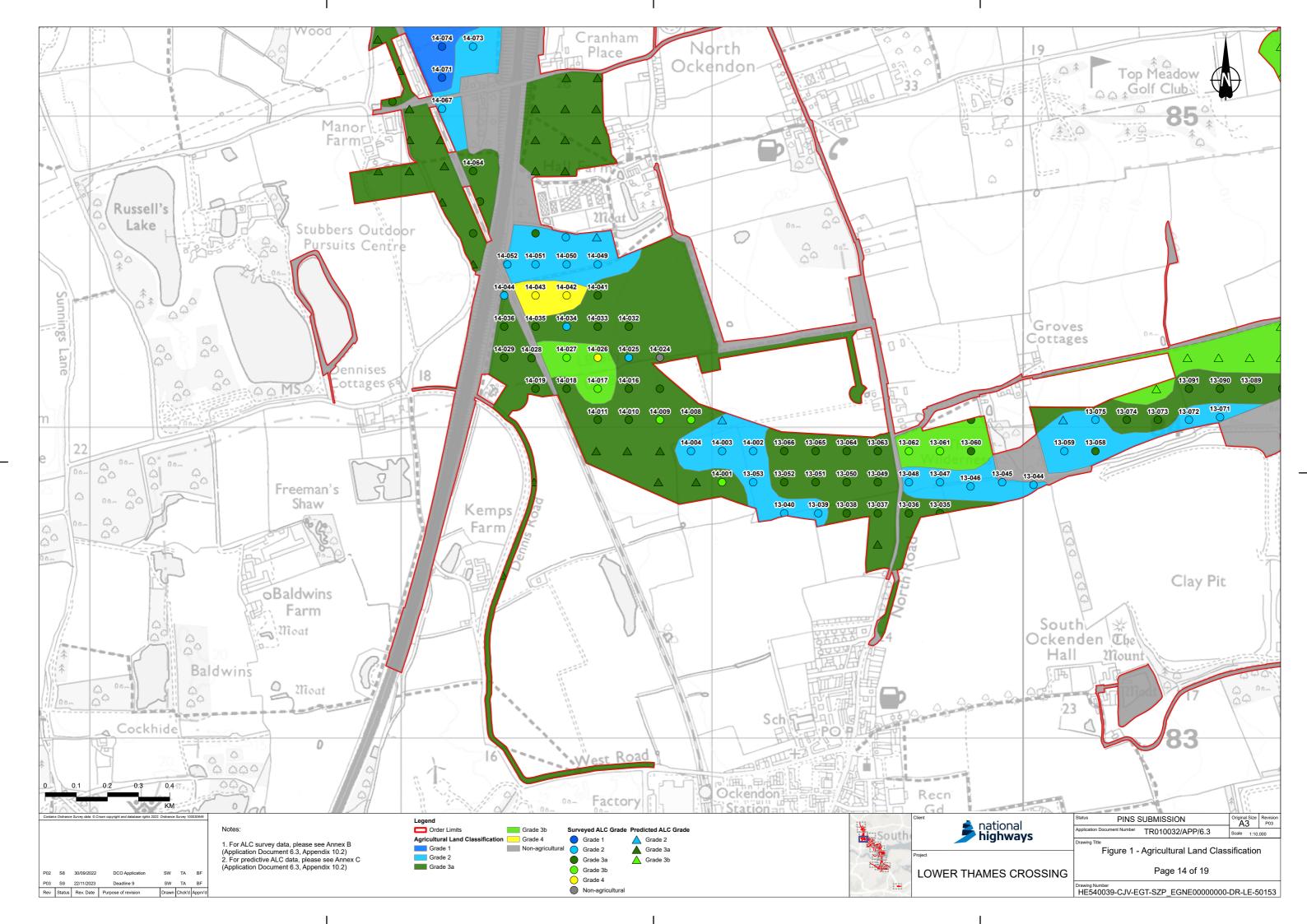


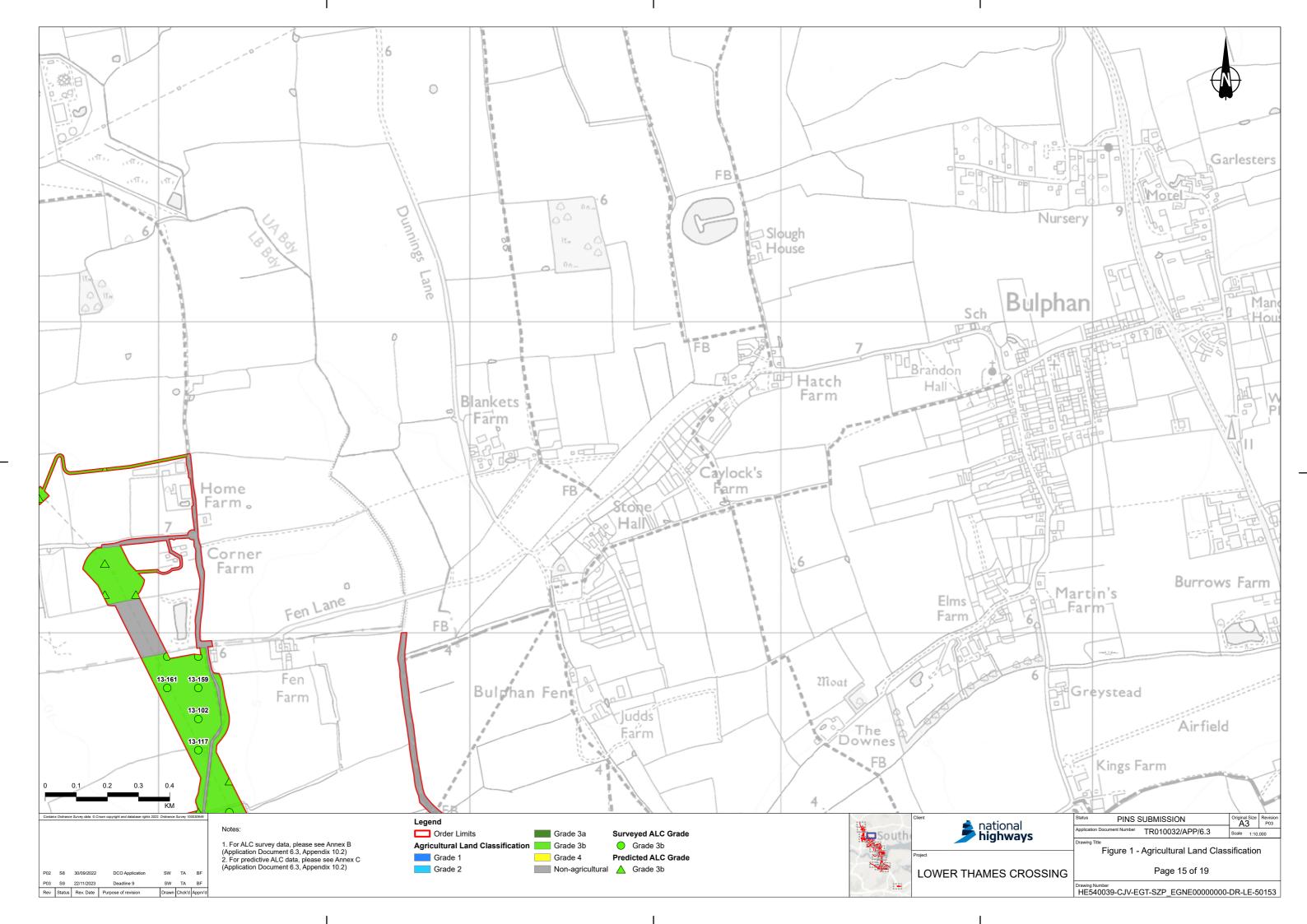


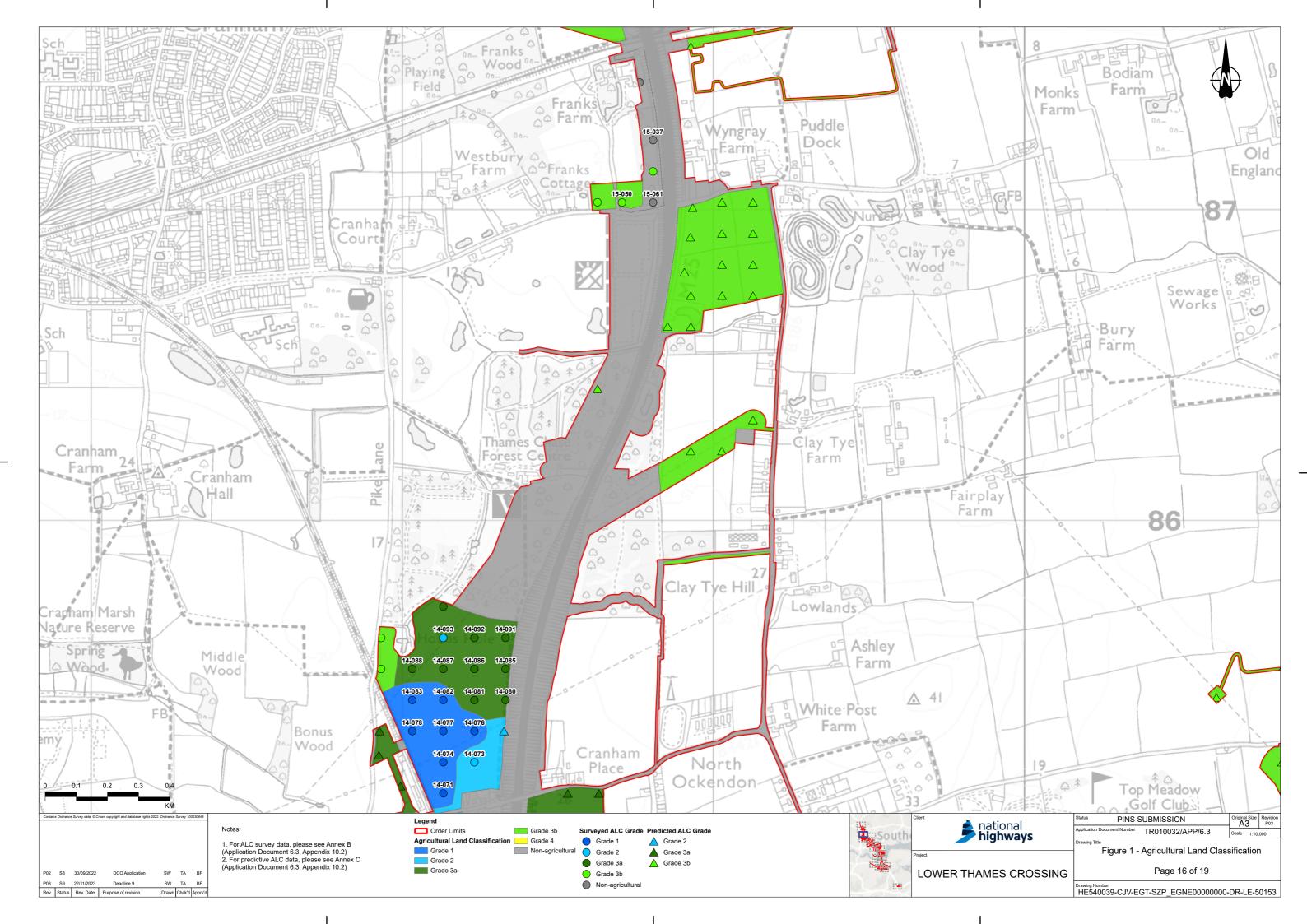


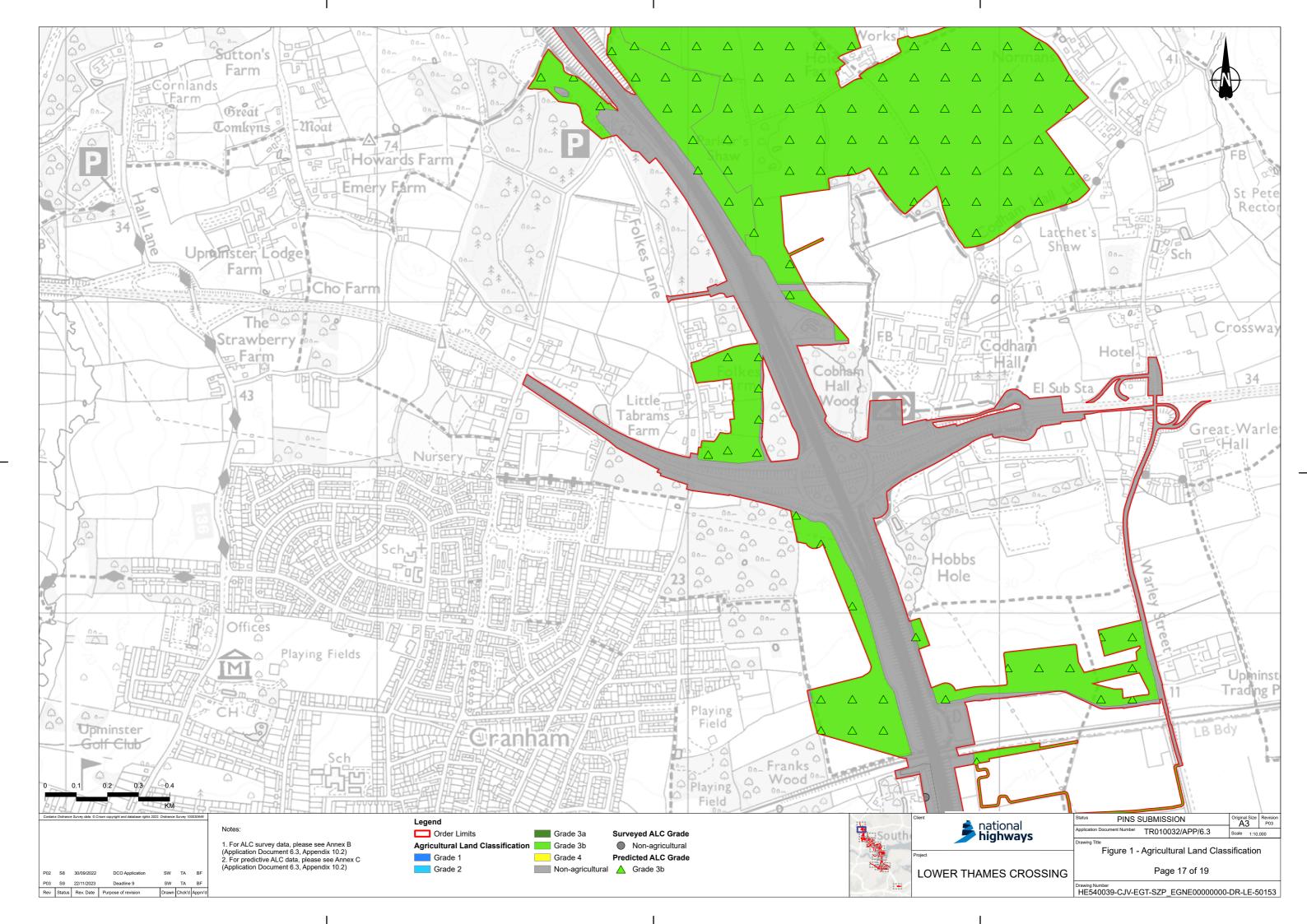


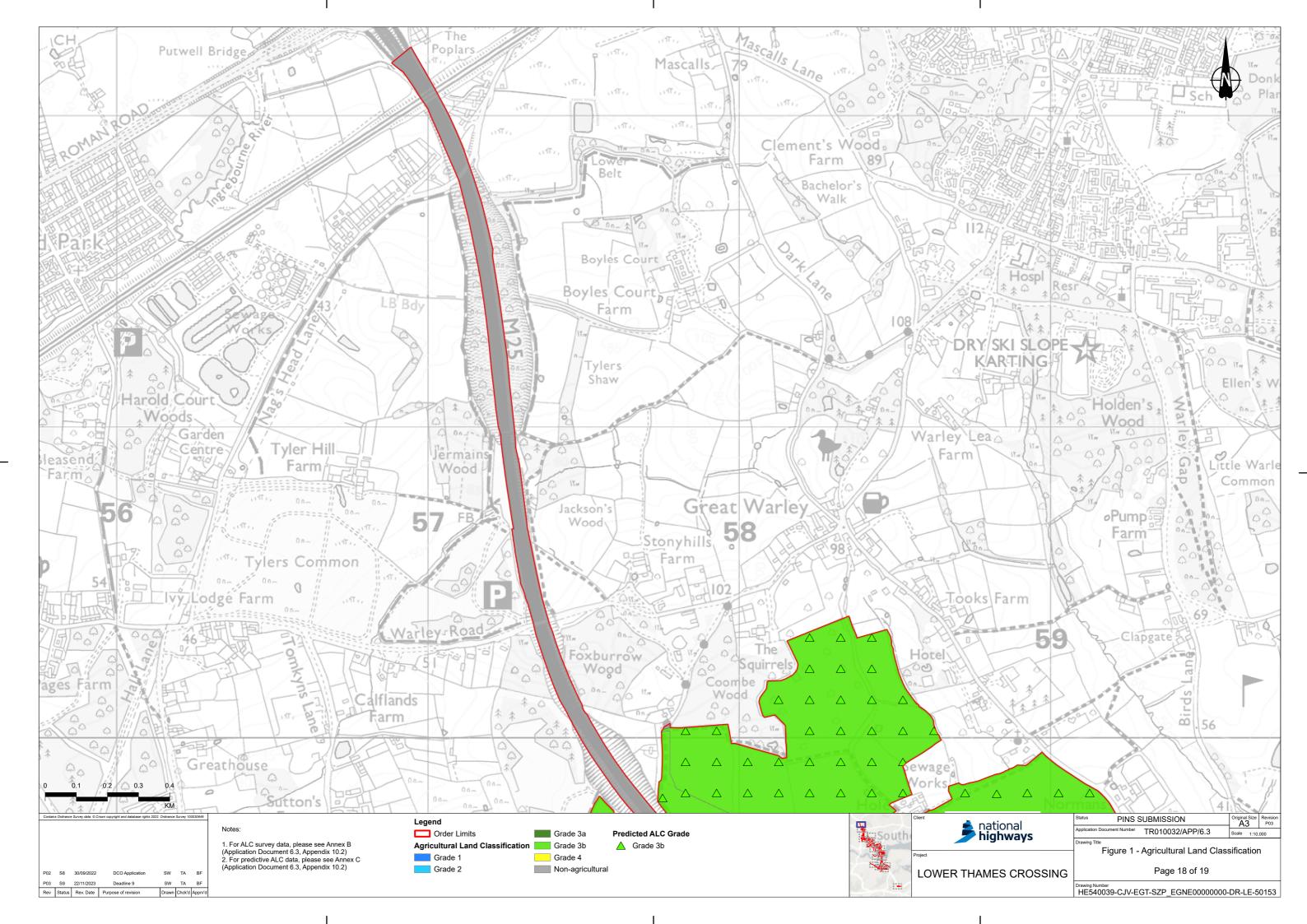


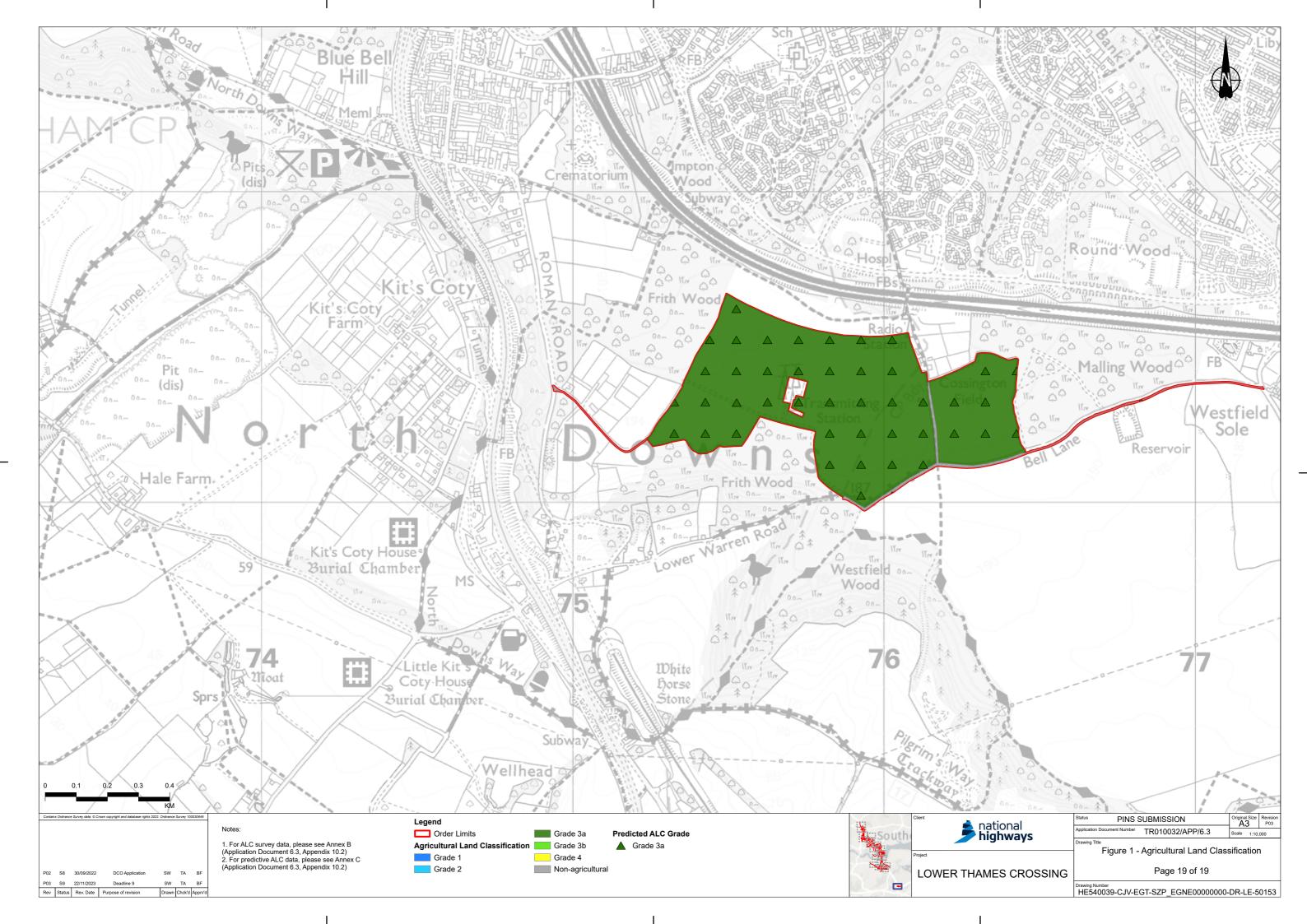












Annexes

Annex A Ordnance Survey Grid Squares

Lower Thames Crossing

(C690)

Ordnance Survey (OS) Grid Squares over Development Boundary

49	50 51 52 53 54 55 56 57 58 59	60 61 62 63 64 65 66 67 68 69	70 71 72 73 74 75 76 77 78 79	80
92		Lower Thames Crossing: 1Km Grid		
91	M25			
90 TQ0		TQ29	ТQ39	TQ49
89 TQ0	TQ8957 TQ8958	1		
88	TQ8856 TQ8857 TQ8858 TQ8851			
87	Cranham TQ8758 TQ8751			
86	TQ855			
85		TQ8560 TQ8561		
84		TQ8460 TQ8461 TQ8462		
83	TQ8358 TQ8358			
82	South Ockendo	TQ8261 TQ8362 TQ8263 Orsett		
81		TQ8162 TQ8163 TQ8164 TQ8165 A13		
79 TQ0		TQ28 TQ8062 TQ8063 TQ8064 TQ8065	TQ38	TQ48
79 100		TQ7963 TQ7964 TQ7965 TQ7966 TQ7967 Linford TQ7866 TQ7867 TQ7868		
77		TQ7766 TQ7767 TQ7768 TQ7768		
76		Tilbury TQ7665 TQ7666 TQ7667 TQ7668		
75		River Thames TQ7566 TQ7567 TQ7567 Thames		
74		River Thames TQ7467 Thames		
73		TQ7367 TQ7368		
72		TQ7267 TQ7268		
71		Thong TQ7166 TQ7167 TQ7168		
70 TQ0	7 TQ17	TQ27 A2 TQ7065 TQ7066 TQ7067 TQ7068	ТQ37	TQ47
69		TQ6966 TQ6967 TQ6968 TQ6969	TQ6971 M2	
68				
67				
66				
65				
64				
63				
62				
61				
60 TQ0	6 TQ16	TQ26	тQ36	TQ46
59				

Annex B Soil Profile Logs

Project Number	Project Name				Parcel		
C629	Lower Thames Crossing ALC Survey			ALCSP1			
Date of Survey	Survey Type		Surveyor(s)	Со	mpany		
18-20/03/2019	ALC		RA/AR/RM	As	Askew Land and Soil		
Weather		Relief		Land use and	vegetation		
Dry, Sunny		Level		Land use and veget LEY (Ley Grass)			
				•			
Grid Reference			Postcode	Altitude	Area		
TQ66837022			DA123BH	69	26		
MAFF prov		MAFF detailed	Flooding				
Grade 1		None	Flood Zone 1				
AAR	AT0	MDw	MDp	FCD	Climate grade		
622	1423	116	111	120	1		
<u> </u>			<u> </u>				
Bedrock				Superficial deposits			
Thanet Formation			None/Head				
Soil association(s)	1.250.000		Det	tailed soil information	1		
Fyfield 4			None None				
i yilelu 4			INOI	IIC .			
Revision Number			Date Revised				
2			26/03/2019				

NGR	Grid ref.	Y	n) Slope ^o	Aspect	Land use To		Thick	Munsell colour	Form Munsell co	les Grey Mo lour Form Munse	ell colour	ey Textu	% > 2cm > 6cm T	ype	Stones - type 2 Ped % > 2cm > 6cm Type Strength Size Sha	e SUBS ST	TR CaCO3 Mn C	SPL N	1Bw MBp	Gd W	C Gw	Final ALC Limitation 1 Limitation 2 Limitation	3 Grade	Profile notes	Ref.
TQ 66831	1 70223 566832	170223 69	≤7			25 40 120	15		FD - Ft 10YR5/6 CD - C 10YR5/6	CF - Cc 2.5Y6/	'2 Ye Ye	s MZCL	- Si1 H	R - All h	nard rocks or stones (i.e. those which cannot be scratched hard rocks or stones (i.e. those which cannot be scratched hard rocks or stones (i.e. those which cannot be scratched	wi Modera	ite NON - NOn-ca	No No Yes	4 13	1 W	CIII 2	Wetness		2 Gley below 25cm, possible SPL in ZC below 40cm.	2-02
TQ 67131	1 70023 567132	170023 77	≤7			90	65				No No	FSZL -	Fin 2 H	R - All h	uard rocks or stones (i.e. those which cannot be scratched the cannot be scrat	wi Modera	ite NON - NNo		3 36	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-00
					90	120	30	10YR5/4			No	FSZL -	Fin 0 H	R - All h	ard rocks or stones (i.e. those which cannot be scratched	wi Modera	ite NON - N No	No							
TQ 67031	1 70023 567032	170023 77	≤7		0 28	28 120		10YR4/3 10YR5/4			No No				aard rocks or stones (i.e. those which cannot be scratched lard rocks or stones (i.e. those which cannot be scratched			No 9 No	1 35	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-01
TQ 67201	1 70035 567202	170035 80	≤7		0 20 55 80	55 80	35 25	10YR3/2 10YR5/6 10YR5/4 10YR5/4	FF - F€ 10YR5/6		No No No	FSZL -	Fin 2 H Fin 10 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched	wi Modera wi Modera	ite SC - Slig No ite SC - Slig No	No 6 No No No	6 33	1 W	CI 1	Droughtiness Wetness	1		2-00
TQ 67331	1 70123 567332	170123 92	≤7		41	41 60	13 19	10YR4/4			No No No	FSZL -	Fir1 H	R - All h	wel with non-porous (hard) stones hard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched	wi Modera	olic NON - N No ite NON - N No ite NON - N No	No No	0 27	1 W	CI 1	Gradient	3b	Subgrade 3b due to gradient/microreleif	2-00
TQ 67231	1 70122 567232	170123 80	≤7		0	18	18	10YR3/2			No.	o FSZL -	Fir ₂ H	R - All h	aard rocks or stones (i.e. those which cannot be scratched	wi Not App	olic NON - N No	No No 6	7 33	1 W	CI 1	Droughtiness Wetness	1		2-0:
					60	60 80 120	20	10YR5/4	FF - F€ 10YR5/6		No No	FSZL -	Fin 10 H	R - All h	aard rocks or stones (i.e. those which cannot be scratched aard rocks or stones (i.e. those which cannot be scratched aard rocks or stones (i.e. those which cannot be scratched	wi Modera	ite SC - Slig No	No No No							
TQ 67131	170123 567132	170123 77	≤7			25 75 120	50				No No		Fin0 H	R - All h	aard rocks or stones (i.e. those which cannot be scratched lard r	wi Modera	ite NON - NNo	No 7. No No	3 37	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-0
TQ 67031	1 70122 567032	170123 77	≤7			50 80	25 30	10YR4/3 10YR5/4 10YR6/4 10YR6/4	CD - G 10YR5/6		No No Ye No	FSZL -	Fir1 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched and rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched are rocks or stones).	wi Modera wi Modera	ite NON - N No ite NON - N No	No 8 No No No	7 37	1 W	CI 1	Droughtiness Wetness	1	Gley 50-80cm. WCI, probably Grade 1	2-0
TQ 66931	1 70123 566932	170123 74	≤7			28 70 120	42		CD - C 10YR5/6		No No Ye		Fir 1 H	R - All h	nard rocks or stones (i.e. those which cannot be scratched and rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones).	wi Modera	ite NON - NO	No 6 No No	0 37	1 W	CII 1	Droughtiness Wetness	1	Gley and possible SPL in ZC LSS, but still probably Grade 1	2-01
TQ 67331	1 70222 567332	170223 82	≤7		0 28 41 60	41	13 19	10YR4/3 10YR4/4 10YR4/4 10YR4/4			No No No	FSZL -	Fir1 H	R - All h R - All h	vel with non-porous (hard) stones ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched	wi Modera wi Modera	te NON - N No		0 27	1 W	CI 1	Gradient	3b	Subgrade 3b due to gradient/microrelief	2-0
TQ 67231	1 70223 567232	170223 73	≤7			47 80	24 33		FF - F€ 10YR5/6		No No No	FSZL - FSZL -	Fin 3 H Fin 10 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched are the	wi Modera wi Modera	ite SC - Slig No ite SC - Slig No	No 6 No No No	5 31	1 W	CI 1	Droughtiness Wetness	1		2-01
TQ 67131	1 70222 567132	170223 74	≤7		50	50	25 30	10YR5/4	FF - F€ 10YR5/6		No No No	FSZL -	Fin 3 H Fin 10 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched lard rocks or stones (i.e. those which cannot be scratched and rocks or stones (i.e. those which cannot be scratched lard rocks or stones (i.e. those which cannot be scratched	wi Modera wi Modera	ite SC - Slig No ite SC - Slig No	No 6 No No No	5 31	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-02

Grid ref.	\ a. 0 -	and the second second	Depth	(cm)	Matrix	Ochreous Mottles	Grey Mottles	CI T		Stones - type 1	Stones -	type 2	Ped	CLIDE CT		N - C CD:	Drough	nt	Wet	Final ALC		Destile and a	Cli
NGR X Y Alt (m) Slope A	spect Land use	Top Bttm	Thick	Munsell colour	Form Munsell colour	Form Munsell colour	Gley Tex	ture %	> 2cm > 6cm Type			Strength Size SI	ape SUBS STR	CaCO3	Mn C SPL	MBw MBp	Gd WC	Gw	Limitation 1 Limitation 2 Limitation	3 Grade	Profile notes	Re
TQ 67031 70223 567032 170223 74	≤7		0 25	25	10YR4/2		1	No MZ	CL - Si 2				which cannot be scratch		ic NON - N	on-cal No	77 19	1 WCI	1	Droughtiness Wetness	1	Probably Grade 1	2-
		2	25 50	25	10YR5/4			No MZ	CL - SI 1	HR - All I	nard rocks or stor	nes (i.e. those	which cannot be scratch	ed wi Moderat	e NON - N	No No							
		5	50 120	70	10YR5/4			No FSZ	L - Fin 1	HR - All H	nard rocks or ston	nes (i.e. those	which cannot be scratch	ed wi Moderat	e NON - N	No No							
TQ 66931 70222 566932 170223 72	<7	(0 30	20	10YR4/2			No MZ	CL - Si 3	LID - All I	and rocks or ston	ans li n. thosa	which cannot be scratch	nd wi Not Anni	ic NON - N	No No '	75 10	1 WCI	1	Droughtiness Wetness	1	Gley in SS, but no SPL	2
100033170222 300332 170223 72			30 55		2.5Y5/3	FP - F€ 10YR5/8		Yes HZC					which cannot be scratch				/5 10	ı wcı	-	Droughtiness wethess	1	diey iii 33, but no 37 E	ľ
		-	30 33		2.5Y6/3	CP - Ct 7.5YR5/8		Yes FSZ					which cannot be scratch										
			33 120	05	2.310/3	Cr - C(7.51115/6		163 132		IIIV-AIII	lai d TOCKS OF SCOT	ies (i.e. tilose		eu willviouerat	E NON-1	140							
TQ 67331 70323 567332 170323 82	<7	(n 20	20	10YR4/3			No FSZ	L - Fin 5	GH - Gra	vel with non-pore	ous (hard) sto	noc	Not Appl	ic NON - N	No No S	50 26	1 WCI	1	Droughtiness Wetness	1		2
100733170323 307332 170323 82			30 40		10YR4/4				L - Fin 1				which cannot be scratch				30 20	ı wcı	-	Droughtiness wethess	1		ľ
		7			10YR4/4				- Fine 1				which cannot be scratch										
		-			10YR4/4				- Fine 1				which cannot be scratch										
		,	50 100	40	101 K4/4			NU F3L	- FILLET	nn - All I	Idia rocks or stor	ies (i.e. tilose	I Calliot be scratci	eu willviouerat	e NON - N	NO NO							
TO 67224 70222 E67222 470222 72	-7		25	25	10YR4/2		-	No FSZ	L - Fir 10	LID All I	and racks or -+	and in the	which cannot be scratch	ad with Not A	io NON .	No No '	E0 24	1 WC	1	Droughtiness Wetness	-	Drobably Crade 1	-
TQ 67231 70322 567232 170323 73	5/	5			10YR4/2 10YR5/4				L - Fin 10 L - Fin 10				which cannot be scratch which cannot be scratch				JO 24	ı wcı	1	Droughtiness Wetness	1	Probably Grade 1	ľ
		1																					
		8	80 120	40	10YR5/4			No MZ	CL - Si 10	HR - All I	nard rocks or stor	nes (i.e. those	which cannot be scratch	ed wi Moderat	e NON - N	No No							
TQ 67131 70323 567132 170323 74	≤7	(10YR4/2			No FSZ					which cannot be scratch				94 36	1 WCI	1	Droughtiness Wetness	1	Probably Grade 1	
		2	28 120	92	10YR5/4			No FSZ	L - Fin 1	HR - All I	nard rocks or stor	nes (i.e. those	which cannot be scratch	ed wi Moderat	e NON - N	No No							
TQ 67031 70322 567032 170323 74	≤7	(0 25	25	10YR4/2			No MZ	CL - Si 4	HR - All I	nard rocks or stor	nes (i.e. those	which cannot be scratch	ed wi Not Appl	ic SC - Slig	No No 7	76 20	1 WCI	1	Droughtiness Wetness	1	Probably Grade 1	- 2
		2	25 45	20	10YR4/3			No MZ	CL - Si 2	HR - All h	nard rocks or stor	nes (i.e. those	which cannot be scratch	ed wi Moderat	e SC - Slig	No No							
		4	45 120	75	10YR4/4			No FSZ	L - Fir 2	HR - All h	nard rocks or stor	nes (i.e. those	which cannot be scratch	ed wi Moderat	e SC - Slig	No No							
TQ 66931 70323 566932 170323 72	≤7	C	0 25	25	10YR4/2			No FSZ	L - Fir 1				which cannot be scratch				77 37	1 WCI	1	Droughtiness Wetness	1	Probably Grade 1	
		2			10YR4/3				L - Fir 1				which cannot be scratch							-		1	
		la	35 85					No FSZ					which cannot be scratch										
			85 120					No MZ					which cannot be scratch										
		ľ						1 1				,		1									
TQ 67331 70422 567332 170423 82	<7		0 25	25	10YR4/2			No FSZ	1 - Fin 1	HR - All H	ard rocks or ston	nes (i.e. those	which cannot be scratch	ed wit Not Anni	ic NON - N	No No	77 37	1 WCI	1	Droughtiness Wetness	1		
			25 35		10YR4/3				L - Fin 1				which cannot be scratch				3/	1 1	-		1		
			35 85						L - Fin 1				which cannot be scratch										
			85 120						CL - Si 1				which cannot be scratch										
		ľ	120	33	20110/3			.40 10121	CL - 311	IIN - All I	and rocks or Stor	ics (i.e. tiiUSe	l camor be stidted	CG WIIWIOUEI dt									
TQ 67231 70423 567232 170423 73	-7		25	25	10YR4/2		1	No FSZ	T Circl	UP All I	and racks or -+	and in the	which cannot be scratch	od with lot A 1	io NON .	No No 1	OF 27	1 14/01	1	Droughtiness	-	Auger to 100cm. Probably grade	10.1
100723170423 307232 170423 73	2/	1	25 120					No FSZ					which cannot be scratch				JJ 3/	I WCI	1	Droughelless	1	nuger to 100cm. Probably grade	c 1
		4	25 120	95	101K5/4			140 1-52	L - FINU	HR - All I	iai u rocks or stor	ies (i.e. tnose	willen cannot be scratch	eu wiiwoderat	e INON - N	NO NO							
ND																							

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

Stone Type
CH - Chalk or chalk stones
FSST - Soft fine grained sandstones
GH - Gravel with non-porous (hard) stones

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

. . .

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm Extremely hard

N/A

Calcareousnes

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC VI

ALC Grades

1

2

3a

3b

4

5 Non-Ag

Gley

None Glev

N/A

C629 LTC ALCSP1 Revision 1 Revision Date 26/03/2019

MSST - Soft, medium or coarse grained sandstones SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones ZR - Soft, argillaceous or silty rocks or stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

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Project Number	Project Name				Parcel
C629	Lower Thames	Crossing			ALCSP2
Date of Survey	Survey Type		Surveyor(s)		Company
18-20/03/2019			RA/AR/RM		Askew Land and Soil
Weather		Relief		Land use a	and vegetation
Dry, Sunny		Level		LEY (Ley G	
Grid Reference			Postcode	Altitude	Area
TQ67037042			DA124AA	74	23.5
		.			
MAFF prov		MAFF detailed		Flooding	
Grade 1/2		None		Flood Zon	e 1
AAR	AT0	MDw	MDp	FCD	Climate grade
624	1418	116	111	120	1
Bedrock			Superficial depo	osits	
Thanet Formation			None		
Soil association(s) 1	·250,000		Dot	ailed soil informat	ion
Fyfield 4	250,000		Nor		
			1,10		
Revision Number			Date Revised		
2			26/03/2019		

NGR X Y	n) Slope O Aspect Land use		Rttm This	Matrix Munsell colou	r Form Munsell colour	Form Muncell colour	Gley	rexture	% > 2cm > 6cm T.	vne	% > 2cm > 6cm Tuno	Strongth Size Chara	SUBS STR	Cacos IN	n C SPL F	MBW MPs	Gd WC G	au Limit	itation 1 Limitation 2 Limitation 3	Grade	Profile notes	
TQ 67032 70422 567032 170423 74				10YR3/3	ıı rorm wunseli colour	roini iviunseii colour	No	MSZL - M	70 ZCM ZOCM I)	ype N = All h	% > 2cm > 6cm Type ard rocks or stones (i.e. those w	Strength Size Shape	h Not Applic	NON - NAM					ughtiness	Grade		
10 07032 70422 307032 170423 74	2/			7.5YR4/3			140	MCL - Cla	111	IIV - AII II	ard rocks or stones (i.e. those w	men cannot be scrattined with	III I TOU APPIIC			21 0	Z WCI 1	Dioc	ugittiriess	2		
				10YR5/4				HCL - Clay		R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	NON - NO	o No							
TQ 66931 70423 566932 170423 72	≤7			10YR3/3				MSZL - M			ard rocks or stones (i.e. those w					22 9	2 WCI 1	Drou	ughtiness	2		_
				7.5YR4/3				MCL - Cla			ard rocks or stones (i.e. those w											
		42	100 58	10YR5/4			No	HCL - Cla	1 H	K - All n	ard rocks or stones (i.e. those w	nich cannot be scratched witr	niModerate	NON - NO	o No							
TQ 67031 70523 567032 170523 72	<7	0	30 30	10YR3/3			No	MSZL - M	1 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	h Not Applic	NON - N	n No	22 9	2 WCI 1	Droi	ughtiness	2	Occasional weather sandstone	-
		30	40 10	7.5YR4/3			No	MCL - Cla	1 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	NON - NON	o No						fragment 40-100 cm	
		40	100 60	10YR5/4			No	HCL - Clay	1 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	NON - NO	o No							
TQ 66931 70522 566932 170523 70	≤7	0	38 38	10YR4/2			Yes	MCL - Cla	1 1 CI	H - Cha	k or chalk stones		Not Applic	MC - M No	o No	4 8	3a WCI 1	Drou	ughtiness	3a	Difficult to auger 83cm- chalk	-
		38	65 27	10YR5/3			Yes	HCL - Clay	1 H		ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	MC - M No	o No				-			
		65	83 18	10YR5/4			No	MZCL - Si	1 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	VC - Vei No	o No							
TQ 67131 70614 567132 170614 72	≤7	0	24 24	10YR3/2		 	No	MZCL - Si	3 0 0 H	R - All h	ard rocks or stones (i.e. those w	l hich cannot be scratched with	h Not Applic	NON - NO	o No	14 2	2 WCI 1	Drou	ughtiness	2		-
		24	52 28	10YR6/4			No	MZCL - Si	1 0 0 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	NON - NON	o No			"				
		52	120 68	10YR6/3			Yes	HZCL - Sil	1 0 0 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Poor	NON - NO	Yes							
TQ 66931 70623 566932 170623 70	≤7	0	25 25	10YR4/2		 	No	MZCL - Si	1 0 0 H	R - All h	ard rocks or stones (i.e. those w	I hich cannot be scratched with	h Not Applic	NON - NO	o No	23 4	2 WCIII 3	a Wet	iness	3a		-
		25	54 29	10YR5/3	FF - Fe 7.5YR5/6	FF - Fe 2.5Y6/2			1 0 0 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	NON - NON	o No			"				
		54	120 66	10YR6/3		CD - Cı 2.5Y6/1	Yes	ZC - Silty	1 0 0 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Poor	NON - NO	o Yes							
TQ 66931 70723 566932 170723 72	<7	0	26 26	10YR4/2		-	No	MZCL - Si	1 0 0 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	h Not Applic	NON - NA	n No	22 2	2 WCIII 2	a M/o+	ness	3a		-
10,00331 /0/23 300332 1/0/23 /2	21	26	50 24	10YR4/2 10YR5/3	FF - Fe 7.5YR5/6	FF - Fe 2.5Y6/2					ard rocks or stones (i.e. those ward rocks)).					££ £	2 VVCIII 3	- Iwet	11033	Ja		
		50	120 70	10YR6/3		CD - Cı 2.5Y6/1	Yes	ZC - Silty			ard rocks or stones (i.e. those w			NON - NO								
TQ 67031 70823 567032 170823 72		0	20 20	10YR4/2			Vo-	MC7'	1 1 2	u Cr.	k or chalk stones		Not *"	SC (11-1-		20 42	2 WC: 1		ughtiness	2		_
14 6/031 /0823 567032 170823 72	5/			10YR4/2 10YR4/3				MSZL - M MCL - Cla			k or chalk stones ard rocks or stones (i.e. those w					zs 12	2 WCI 1	Drou	ugnuness	2		
		45	80 35	10YR4/3			No	HZCL - Sil	1 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	NON - NON	o No							
		80	100 20	2.5Y5/2			Yes	FSL - Fine	1 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Moderate	NON - N	o No							
																						_
TQ 66931 70822 566932 170823 72	≤7			10YR4/2 10YR4/2			Yes	MZCL - Si HZCL - Sil	1 1 CI		k or chalk stones rel with porous stones (mainly s	off stone tunes listed shours	Not Applic	MC - M No	No No	17 13	2 WCI 1	Drou	ughtiness	2		
				7.5YR4/2			Yes	HZCL - SII	1 G	iS - Grav	el with porous stones (mainly s rel with porous stones (mainly s	oft stone types listed above)	Moderate	MC - M No	o No							
				10YR5/3				C - Clay			el with porous stones (mainly s											
TQ 67131 70923 567132 170923 71	≤7	0	38 38	10YR4/1			Yes	MZCL - Si	1 H	R - All h	ard rocks or stones (i.e. those w	hich cannot be scratched with	Not Applic	NON - NON	No :	10 11	2 WCI 1	Drou	ughtiness	2		
		40	70 30	10YR3/2 7.5YR4/1			Yes	HZCL - Sil HCL - Cla	1 H		ard rocks or stones (i.e. those w ard rocks or stones (i.e. those w											
			90 20					C - Clay			ard rocks or stones (i.e. those w											
TQ 67031 70922 567032 170923 71	≤7			10YR4/2 10YR4/2			Yes	MZCL - Si	1 1 CI		k or chalk stones	oft stone tunes lists dish - '	Not Applic	MC - M No	No :	17 12	2 WCI 1	Drou	ughtiness	2		
				10YR4/2 7.5YR4/2			res Yes	HZCL - Sil HZCL - Sil	1 6		el with porous stones (mainly sel with porous stones (mainly se											
				10YR5/3				C - Clay			el with porous stones (mainly s											
																						_
TQ 66931 70923 566932 170923 71	≤7	0	30 30	10YR4/2 10YR5/3				MZCL - Si MZCL - Si	4 0 0 HI 2 0 0 H	R - All h	ard rocks or stones (i.e. those w 4 0 0 CH - Ch	hich cannot be scratched with ilk or chalk stones	Not Applic	NON - NO	No i	34 6	2 WCI 1	Drou	ughtiness	2		
		20	JU 2U	101113/3		1	No	1.12CL - 31	2 0 0 H	D - All F		ilk or chalk stones	Moderate	Jac - Silg No	o No						I	
		50	120 70	10YR6/4			No	IVIZCE - SI	2 0 0 11	iiv - Aii ij	30 0 U CH - CN	iik of clidik stolles	ivioderate	SC - Slig No	סאון ט				I I			

	Grid ref.					\neg	Depth	(cm)	Mat	triv	0.0	chreous Mottles	Grey Mottles				Sto	nes - ty	ne 1		Str	ones - ty	ne 2		Ped							Drought		Wet			Final	ALC				Client
Point	NGR X Y	t (m) s	lope °	Aspect	Land us								Form Munsell colour	Gley	Textur	re 🚽	1- 2cm	1.60	m ITu	00 9/	> 2cm	1.60	n ITun		Strength Size	Chann	SUBS S	TR CaC	D3 Mi	1n C SP				NC Gw	Limitatio	o 1 Lin		Limitation	2 Crado	P	rofile notes	Pof
	INGK X Y	- 1				ТОР	Bttm	Inick	k Iviui	nseli colour	Form	1 Iviunseii colour	Form Inviduseil colour			76	> 2cm	> 601	т јіур	pe 76	> 2cm	> 601	п јіур	<u> </u>	strengtn Size	Snape	·				INIB	w livibb	Iga IA	wc jaw	Limitatio	n I Jun	iltation 2	Limitation	3 Grade	•		Kei.
12	TQ 67131 71022 567132 171023 7	L ≤	7			0	32	22	10V	R4/2				No	HZCL -	Cil 1	0	٥	μр	Allbox	d rocks o	rctonoc	(i o tho	o whiel	h cannot be scra	tahad wit	th Not An	olio NON	I N Nic	0 N/	0 26	-	2 1	MC II 2	Drought	nore Mi	tnocc		2	+		2-061
13	10 6/131 /1022 56/132 1/1023 /		,			0											U	U														ь	2 V	WCII 2	Drought	ness w	tness		2			2-061
						32	55	23	10Y			e 7.5YR5/6			HZCL -			0							h cannot be scra	tcnea wit																
						55	120	65	10Y	R6/3	CF - C	Cc 7.5YR5/8		Yes	HZCL -	- Sil 30	0	0	GH	I - Grave	with nor	n-porous	(hard) s	tones			Moder	ate NON	1 - N NC	o No	0											
14	TQ 67031 71023 567032 171023 7	l ≤	7			0	38	38	10Y	R3/2				No	MZCL	- Si 2	0	0	HR	- All I 6	2	0	CH -	Chalk o	or chalk stones		Not Ap	plic NON	1 - N No	o No	o 36	7	2 V	NCI 1	Drought	ness			2			2-062
						38	50	12	10Y	R5/2				No	MZCL	- Si 2	0	0	HR	- All r 15	0	0	CH -	Chalk o	or chalk stones		Moder	ate SC -	Slig No	o No	lo				_							
						50	120	70	10Y	R6/2				Yes	MZCL	- Si 2	0	0	HR	- All H 20	0 0	0	CH -	Chalk	or chalk stones		Moder	ate SC -	Slig No	o N	0											
										, =				1.00		-1-	-	-				-		1						-	-											
15	TO 67131 71123 567132 171123 7	. <	7			0	30	30	10V	R3/2				No	MZCL	Ci 2	0	0	шп	- All H 6	2	0	CH	Challe	or chalk stones		Not An	olio NON	I N No	o N	0 20	8	2 1	NCI 1	Drought	0000			2	_		2-063
13	100/131/1123 30/132 1/1123 /		,			0											0	0			2	0										۰	2 V	WC1 I	Diougiit	iess			2			2-003
						30	60	30		R5/2					MZCL		0	0		- All I 8		0			or chalk stones		Moder															
						60	120	60	10Y	R6/2				Yes	MZCL	- Si 2	0	0	HR	- All I 8	0	0	CH -	Chalk o	or chalk stones		Moder	ate SC -	Slig	o No	0											
1													1																										- 1			

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy) IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

Stone Type
CH - Chalk or chalk stones
FSST - Soft fine grained sandstones
GH - Gravel with non-porous (hard) stones

OC - Organic clays

OL - Organic loams

OS - Organic sands PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC II

WC III

WCIV

WC V

WC VI

ALC Grades

1

z 3a

3b

4

5

Non-Ag

None Gley

N/A

MSST - Soft, medium or coarse grained sandstones
SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones
ZR - Soft, argillaceous or silty rocks or stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

Project Number	Project Name				Parcel
C629	Lower Thames	Crossing			ALCSP3
Date of Survey	Survey Type		Surveyor(s)		mpany
18-20/03/2019			RA/AR/RM	Ask	xew Land and Soil
Weather		Relief		Land use and v	
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ66357034			DA125UD	76	39
1000537034			DA12300		59
MAFF prov		MAFF detailed	I	Flooding	
Grade 1		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
623	1416	115	110	121	1
	•	•		•	•
Bedrock			Superficial depo	sits	
Thanet Formation/I	Lewes Nodular/Se	aford/Newhav	None/Head		
Soil association(s) 1	:250 000		Deta	ailed soil information	
Fyfield 4	230,000		None		
	-				
Revision Number			Date Revised		
2			26/03/2019		

nt Grid ref. NGR X Y	m) Slope ° Aspect Land use	Depth (cm)		Ochreous Mottles	Grey Mottles Form Munsell colour	Gley Text	re Stones - t	ype 1	Stones - type 2	Ped Strength Size Shape	SUBS STR	CaCO3 M	n C SPL	Drought	Wet id WC Gw	Final ALC Limitation 1 Limitation 2 Lim		Profile notes
TQ 66358 70349 566359 170350 76	≤7	0 10 10		Form Munsell colour	Form Munsell colour	MCI	Clay loam (medium)	m Type 1%	>2cm >6cm Type	Strength Size Shape			IV.	1BW MBP 0	a WC GW	Limitation 1 Limitation 2 Lim	Non-Ag	Not surveyed- in woodland area
1(00000 /0049 000009 1/0000 /0	21	0 10 10				INICE	Clay loan (medium)							77 -52 A			Non-Ag	Not surveyed- III woodland area
TQ 66631 70222 566632 170223 66	≤7	0 10 10				MCL	Clay loam (medium)						-9	97 -92 4			Non-Ag	Not surveyed
TQ 66631 70323 566632 170323 66	£7	0 30 30 30 38 8 38 100 62				No MZC Yes MSZ No HZCL		HR - All hard r	ocks or stones (i.e. those v	hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit	Moderate	SC - Slig N	o No	4 13 2	WCI 1	Droughtiness	2	
TQ 66656 70421 566657 170421 66	≤7	30 39 9	10YR4/3 10YR4/2			No MCL Yes MZC	- Si 1	HR - All hard r	ocks or stones (i.e. those v	hich cannot be scratched wit	Moderate	SC - Slig N	o No	1 8 2	WCI 1	Droughtiness	2	
TQ 66731 70223 566732 170223 66	≤7	39 70 31 70 100 30 0 28 28	10YR5/4			No HCL	Cla 1	HR - All hard r	ocks or stones (i.e. those v	which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit	Moderate Not Applic	SC - Slig No	No No -1	4 3	a WCI 1	Droughtiness	3a	N/A on PSIP
		28 40 12 40 70 30 70 80 10				No MCL No SCL- Yes SC-5	San 1	HR - All hard r	ocks or stones (i.e. those v	which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit	Moderate	NON - NN	o No					
TQ 66731 70322 566732 170323 69	<i>≤</i> 7	0 30 30 30 38 8 38 70 32 70 80 10	10YR5/6			No MCL No MCL No SCL - Yes SC - S	Cla 1 San 1	HR - All hard r HR - All hard r	ocks or stones (i.e. those v ocks or stones (i.e. those v	which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit	Moderate Moderate	NON - N N	No No	L 4 3	a WCI 1	Droughtiness	3a	Augered to 80cm stone
TQ 66731 70423 566732 170423 69	≤7	0 30 30 30 38 8 38 65 27				No MZC Yes MZC No MZC	- Si 1	CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Moderate	MC - M N MC - M N VC - Ver N	5	10 5 3	a WCI 1	Droughtiness	За	Chalk present below 65cm. 38-65 cm mzcl with chalk . Impenetrable with auger 65cm +
'Q 66731 70522 566732 170523 66	<i>≤</i> 7	30 80 50	10YR3/3 10YR4/2 10YR4/3			No MZC Yes HZCL No HZCL	- Sil 1	CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Moderate	MC - M(N) MC - M(N) MC - M(N)	o No	8 14 2	WCI 1	Droughtiness	2	
Q 66731 70622 566732 170623 66	£7	0 30 30 30 36 6 36 50 14				No MZC No HZCL No CHK		CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Good	MC - M N MC - M N VC - Ver N	5	83 -28 3	b WCI 1	Droughtiness	3b	
TQ 66831 70722 566832 170723 69	≤7			FF - Fe 10YR5/6 FF - Fe 10YR5/6		Yes HZCL Yes HZCL Yes C - Cl Yes ZC - S	- Sil 1 iy 1	CH - Chalk or CH - Chalk or CH - Chalk or CH - Chalk or	halk stones halk stones		Moderate	MC - M N	No No	5 11 2	WCI 1	Droughtiness	2	Mottling very faint/faint adjoins ALCSP2 boring 2-054 (3a) Assume no SPL at 2-055
'Q 66831 70622 566832 170623 66	<i>≤</i> 7	0 30 30 30 70 40 70 100 30		FF - Fe 10YR5/6		No HCL Yes C - Cl Yes C - Cl	Cla 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Moderate	SC - Slig No SC - Slig No SC - Slig No	o No	1 8 2	WCI 1	Droughtiness	2	Assume no SPL below 35cm (moderate structure) ?
TQ 66831 70523 566832 170523 66	≤7	0 30 30 30 50 20 50 80 30	10YR4/2 2.5Y4/3 10YR4/3			Yes MCL No MCL No HCL	Cla 1	CH - Chal <1 CH - Chalk or CH - Chalk or	chalk stones	hard rocks or stones (i.e. tho	Moderate	MC - M(N) MC - M(N)	o No	8 3	a WCI 1	Droughtiness	3a	Difficult to auger 80cm+- flint type stone

	Grid ref.		I			Depth	(cm)	Matrix	Ochreous Mottles	Grey Mottles	T., I	_		Stones - type 1		Stones - type 2		ed	T				Drought	T 1	Wet		Final A	ALC			Client
Point	x	Y	Alt (m)	Slope	Aspect Land use			Munsell colou	r Form Munsell colour	Form Munsell colour	Gley	Texture	% >	> 2cm > 6cm Tr	ре	% > 2cm > 6cm Type	Strength	Size Shape	SUBS S	TR CaCO3	Mn C	MB	v MBp G	d WC	Gw	Limitation 1	Limitation 2	Limitation 3	Grade	Profile notes	Ref.
13 TQ 668	831 70422 5668	832 170423	69	≤7		0 35	35	10YR4/2			Yes	MZCL - Si	1	С	I - Chal	lk or chalk stones			Not Ap	plic MC - M	No I	No 10	12 2	WCI	1	Droughtiness			2	65cm- chalky mcl . Difficult to auger	r 2-042
						35 65	30	7.5YR4/3			No	HCL - Cla	1	C	1 - Chal	alk or chalk stones			Modera	ate MC - M	No I	No								85cm chalk	
						65 85	20	10YR6/4			Yes	MCL - Cla	1	C	1 - Chal	lk or chalk stones			Modera	ate MC - M	No I	No									
14 TQ 668	831 70323 5668	832 170323	69	≤7		0 30	30	10YR3/2			1 1	MCL - Cla				hard rocks or stones (i.e. those							4 38	wc i	1	Droughtiness			3a	Augered to 80cm stone below	2-032
						30 38	8	2.5YR3/3			1 1	MCL - Cla				hard rocks or stones (i.e. those														80cm	
						38 70	32	10YR5/6				SCL - San				hard rocks or stones (i.e. those															
						70 80	10	10YR5/3			Yes	SC - Sand	1 1	ι н	R - All h	hard rocks or stones (i.e. those	which cannot be	scratched with	th Modera	ate NON - N	No I	No									

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platv MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV WC V

WC VI

ALC Grades

1 2

За

3b

4

5

Non-Ag

None

Gley

Project Name				Parcel
Lower Thames	Crossing			ALCSP4
Survey Type		Surveyor(s)	Com	npany
ALC		RA/AR/RM	Ask	ew Land and Soil
	Relief		l and use and v	egetation
	Level			
			1	
				Area
		DA123HF	54	22.29999924
	MAEE dotailor	d	Elooding	
	None	<u>u</u>	Flood Zone 1	
			!	
AT0	MDw	MDp	FCD	Climate grade
1440	119	115	117	1
		C o uficial done	aiha	
			OSITS	
k Formation		None		
:250,000		Deta	iled soil information	
,				
		Date Revised		
		26/03/2019		
	Survey Type ALC ATO	Survey Type ALC Relief Level MAFF detailed None ATO MDW 1440 119	Lower Thames Crossing Surveyor(s) ALC	Survey Type Surveyor(s) Com ALC RA/AR/RM Ask Relief Land use and v LEY (Ley Grass) Level Postcode Altitude DA123HF 54 MAFF detailed Flooding None Flood Zone 1 ATO MDw MDp FCD 1440 119 115 117 Superficial deposits None Superficial deposits None 250,000 Detailed soil information None

Grid ref. NGR X Y	Slope ° Aspect Lan			Matrix Ochreous Mottle Munsell colour Form Munsell colou		Texture	Stones - type 1 % > 2cm > 6cm Type	Stones - type 2 % > 2cm > 6cm Type	Strength	Ped Shape	SUBS STR	CaCO3	Mn C	SPL	Drought w MBn I	Gd WC G	t Limitation 1	Final ALC Limitation 2 Limitation 3 Gra	Profile notes	CI R
TQ 68032 72023 568032 172023 54	≤7			25 10YR4/2			5 HR - Al	It1 CH-C	nalk or chalk s	ones I	Not Applica	MC - M	No	No -11	-9	Ba WCI 1	Droughtiness	3a	Augered to 65cm where IMP,	4-
				13 7.5YR4/4		C - Clay			nalk or chalk s		Moderate			No					assume root to 85cm in >70%	
				22 10YR5/4	No		1 HR - Al		nalk or chalk s	ones	Moderate	MC - M	No	No					chalk. G2 clay TS after calc	
				5 10YR6/4	No No	MSZL - M MSZL - M			nalk or chalk s nalk or chalk s		Moderate Moderate			No No					upgrade, probably also G2	
		05	85 4	20 10YR8/1	INO	IVISZL - IVI	I HK-AI	IT/5 CH-C	laik or chaik s	ones	ivioderate	vc - ve	INO	INO					drought?	
TQ 68132 72023 568132 172023 51	≤7			25 10YR4/2 10 10YR7/3	No No	MZCL - Si MZCL - Si		I 15 CH - C	nalk or chalk s nalk or chalk s		Not Applica Moderate			No -44 No	-38	Bb WCI 1	Droughtiness	3b	Augered to 35cm where IMP, assume root to 55cm in >70%	4
				20 10YR8/1	No.	MZCL - Si			nalk or chalk s		Moderate			No					chalk.	
TQ 68132 72123 568132 172123 46	≤7			25 10YR4/2	No	MZCL - Si			nalk or chalk s						-27	3b WCI 1	Droughtiness	3b	Augered to 40cm where IMP,	4
				10 10YR4/4 5 10YR6/4	No No	MZCL - Si MSZL - M			nalk or chalk s nalk or chalk s		Moderate Moderate			No No					assume root to 60cm in >70% chalk.	
				20 10YR8/1	No.	MSZL - M			nalk or chalk s		Moderate			No					Cildik.	
TQ 68232 72023 568232 172023 51	≤7			27 10YR4/2		MZCL - Si			nalk or chalk s						-7	3a WCI 1	Droughtiness	3a	Augered to 55cm where IMP,	-
				23 10YR4/4	No				nalk or chalk s		Moderate			No					assume root to 75cm in >70%	
		50	55 5	5 10YR7/2 20 10YR8/1	No No	MZCL - Si MZCL - Si			nalk or chalk s nalk or chalk s	ones	Moderate Moderate	VC - Ve	I No	No No					chalk.	
		33	/5 4	:U 101R6/1	INO	IVIZCE - 31	1 HK-AI	II/3 CH-C	Idik Oi Cildik S	ones	iviouei ate	vc - ve	IIIVO	NO						
TQ 68232 72123 568232 172123 46	≤7	0	27 :	27 10YR4/2	No	HZCL - Sil	6 HR - AI	It 2 CH - C	nalk or chalk s	ones	Not Applica	VC - Ve	n No	No -7	-1	Ba WCI 1	Droughtiness	3a	Augered to 62cm where IMP,	—
		27	38 1	11 10YR4/5	No	HZCL - Sil	1 HR - Al	1 t 2 CH - C	nalk or chalk s	ones	Moderate	VC - Ve	n No	No				50	assume root to 80cm in >70%	
		38	58 2	20 10YR6/4	No	MSZL - M	1 HR - Al		nalk or chalk s		Moderate			No					chalk.	
				10YR8/1	No				nalk or chalk s		Moderate			No						
		62	80 1	L8 10YR8/1	No	MSZL - M	1 HR - Al	IT/S CH-C	nalk or chalk s	ones	Moderate	vc - ve	I NO	No						
Q 68232 72223 568232 172223 46	≤7			26 10YR4/2 1 10YR4/5	No No		12 8 4 HR - Al ty clay loam (medium)	hard rocks or stones (i.e. those	which cannot nalk or chalk s		Not Applica Moderate			No -31 No	-21	3b WCI 1	Droughtiness	3b	Augered to 45cm where IMP, assume root to 65cm in >70%	ľ
				101K4/5 15 10YR6/3	No.		edium sandy silt loam		nalk or chalk s		Moderate			No					chalk.	
				20 10YR8/1			edium sandy silt loam		nalk or chalk s		Moderate			No					Crian.	
TQ 68332 72023 568332 172023 46	≤7			25 10YR4/2		MZCL - Si			nalk or chalk s					No -9	-4	3a WCI 1	Droughtiness	3a	Augered to 60cm where IMP,	4
				13 10YR4/4 17 7.5YR4/4	No				nalk or chalk s		Moderate			No					assume root to 80cm in >70%	
				1/ /.5YR4/4 5 10YR7/3	No No	MZCL - Si MSZL - M			nalk or chalk s nalk or chalk s		Moderate Moderate			No No					chalk.	
		60	80 2	20 10YR8/1	No	MSZL - M	1 HR - Al		nalk or chalk s	ones	Moderate	VC - Ve	No No	No						
TQ 68332 72123 568332 172123 43	≤7	0	30 3	30 10YR4/2	No	MZCL - Si	6 4 2 HR-AI	1	nalk or chalk s	ones	Not Applica	VC - Ve	n No	No -8	-2 3	Ba WCI 1	Droughtiness	3a	Augered to 60cm where IMP,	-
	=-			25 10YR4/3		MZCL - Si			nalk or chalk s		Moderate								assume root to 80cm in >70%	
				5 10YR6/3	No	MSZL - M			nalk or chalk s		Moderate			No					chalk.	
		60	80 2	20 10YR8/1	No	MSZL - M	1 HR - Al	1 75 CH - C	nalk or chalk s	ones	Moderate	VC - Ve	n No	No						
TQ 68332 72223 568332 172223 43	≤7			30 10YR4/2 LO 10YR7/3			12 8 4 HR - Al edium sandy silt loam		nalk or chalk s		Not Applica Moderate				-29	3b WCI 1	Droughtiness	3b	Augered to 40cm where IMP, assume root to 60cm in >70%	
				20 10YR8/1	No.		edium sandy silt loam		nalk or chalk s		Moderate			No					chalk.	
		"					,													
TQ 68432 72023 568432 172023 33	≤7			25 10YR4/2 LO 10YR5/4	No No	MZCL - Si			nalk or chalk s					No -16 No	-8	3a WCI 1	Droughtiness	3a	Augered to 55cm where IMP,	
				10 10YR5/4 15 10YR6/4	No No		ty clay loam (medium) ty clay loam (medium)		nalk or chalk s nalk or chalk s		Moderate Moderate			No No					assume root to 75cm in >70% chalk.	
		50	55 5	5 10YR6/3	No		ty clay loam (medium)		nalk or chalk s		Moderate			No					Cirdin.	
		55	75 2	20 10YR8/1	No		ty clay loam (medium)		nalk or chalk s		Moderate			No						
Q 68432 72123 568432 172123 36	≤7			25 10YR4/2		MZCL - Si			nalk or chalk s	ones I	Not Applica	VC - Ve	n No	No -49	-45	3b WCI 1	Droughtiness	3b	Augered to 30cm where IMP,	=
				5 10YR8/1	No		edium sandy silt loam		nalk or chalk s	ones	Moderate	VC - Ve	r No	No					assume root to 50cm in >70%	
		30	50 2	20 10YR8/1	No	MSZL - M	edium sandy silt loam	75 CH - C	nalk or chalk s	ones	Moderate	VC - Ve	n No	No					chalk.	
TQ 68532 72023 568532 172023 33	≤7	0	25 2	25 10YR4/2	No	MZCL - Si	15 10 4 HR - Al	IF 2 CH - C	nalk or chalk s						-10	3a WCI 1	Droughtiness	3a	Augered in flinty chalky soil to 7	70cm
		25	60 3	35 7.5YR4/4	No	HZCL - Sil	15 HR - Al	l hard rocks or stones (i.e. CH - C	nalk or chalk s	ones	Moderate	SC - Slig	No	No						
				10 10YR7/2	No	MZCL - Si	15 HR - Al		nalk or chalk s	ones	Moderate	VC - Ve	r No	No						
				20 10YR8/1		MZCL - Si	25 HR - AI		nalk or chalk s		Moderate		1							

	Grid ref.				De	pth (cm)) N	Лatrix	Ochreous Mottles	Grey Mottles	5 6.			Stones - type 1		Stones - type 2 Ped	UBS STR CaC			D	rought	Wet	Final ALC			Client
Po	NGR X Y	ait (m)	Slope ° Aspe	ect Land use	Тор	Bttm Ti	hick N	Aunsell colour	Form Munsell colour	Form Munsell col	lour	Y Textu	ure %	6 > 2cm > 6cm T	ype	% >2cm >6cm Type Strength Size Shape	OBS STR Cac	LO3 MI	n C SPL	MBw	MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile notes	Ref.
13	TQ 68532 72123 568532 172123 3	36	\$7		20 60	20 20 60 40 90 30 110 20	0 1	OYR4/2 OYR4/4 OYR7/2 OYR8/1			No No No	MZCI	L - Silty L - Med	i y clay loam (medium) dium sandy silt loam dium sandy silt loam	R - All h	5 CH - Chalk or chalk stones N 15 CH - Chalk or chalk stones N	lot Applic MC Moderate VC Moderate VC Moderate VC	- Ver No	No No	23	2 2	WCI 1	Droughtiness		Augered to 90cm where IMP, assume root to 110cm in >70% chalk.	4-012
14	TQ 68632 72023 568632 172023 3	30	≤7			28 28 120 93		OYR4/2 OYR4/4			No No		L - Si 5			All hard rocks or stones (i.e. those which cannot be scratched with N All hard rocks or stones (i.e. those which cannot be scratched with N				34	4 2	WCI 1	Droughtiness		Augered to 100cm, assume same to 120cm. In bottom of dry N-S shallow valley feature	4-002
15	TQ 68732 72023 568732 172023 3	36	≤7		28 38	28 28 38 10 45 7 60 19	0 1	.0YR4/2 .0YR4/4 .0YR7/3 .0YR8/1			No No No	MZCI	L - Silty L - Silty	i y clay loam (medium) y clay loam (medium) y clay loam (medium)	R - All h	10 CH - Chalk or chalk stones N 100 CH - Chalk or chalk stones N	Not Applic MC Moderate VC Moderate VC Moderate VC	- Ver No	No No	-34	-27 3b	WCI 1	Droughtiness		Augered to 45cm where IMP in solid chalk, assume root to 60cm in 100% chalk.	4-001

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy) HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platv MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Soil or Ped. Strength

Loose

Poor

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV

WC V WC VI

ALC Grades

1 2

3a

3b

4

5

Non-Ag

None Gley

Project Number	Project Name				Parcel
C629	Lower Thames	Crossing			ALCSP5
Date of Survey	Survey Type		Surveyor(s)		npany
18-20/03/2019	ALC		AR/RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	regetation
Dry, Sunny		Level		LEY (Ley Grass)	_
			T	Tana a	1.
Grid Reference			Postcode	Altitude	Area
TQ67637222			DA124LG	51	28.8
MAFF prov		MAFF detaile	d	Flooding	
Grade 2/3		None		Flood Zone 1	
AAR	АТО	MDw	MDn	FCD	Climate grade
610	1443	119	MDp 115	116	1
_010	11443	1113	ļ113	[110	+
Bedrock			Superficial depo	osits	
Lewes Nodular Cha	lk Formation		None/Head		_
Soil association (s) 1	1.250,000		Dota	ailed soil information	
Soil association(s) 1	1.250,000				
Coombe 1			Non	e	
Revision Number			Date Revised		
2			26/03/2019		

TQ 67631 72222 5676 TQ 67632 72322 5676	632 172223 51	≤7		30 10YR4/2	No	MZCL - Si 10 6			% >2cm >6cm Type		1		T	, ,	WCI 1	Final ALC Limitation 1 Limitation 2 Limitation Droughtiness		0 4 1: 00 1 11:00	
2 TQ 67632 72322 5676				18 10YR4/4	No	MZCL - Silty clay	y loam (medium)	HK - All r	5 CH - C	nalk or chalk stones nalk or chalk stones	Moderate	MC - M N	o No	-1	WCI 1	Drougntiness		2 Augered to 80cm where IMP, assume root to 100cm in >70%	4-028
2 TQ 67632 72322 5676				27 10YR6/4 5 10YR6/4			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N						chalk.	
2 TQ 67632 72322 5676			80 100	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)			nalk or chalk stones	Moderate	VC - Ver N	o No						
	632 172323 39	<7	0 30	30 10YR4/2	No	MZCI - Si 8	5 3	HR - All h	5 CH-C	nalk or chalk stones	Not Applic	VC - Ver N	o No -	36 -28	Bb WCI 1	Droughtiness	3h	Augered to 40cm where IMP,	4-035
			30 40	10 10YR7/3	No	MZCL - Silty clay	y loam (medium)		70 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No					assume root to 60cm in >70%	
			40 60	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	vc - ver N	o No					chalk.	
3 TQ 67731 72023 5677	732 172023 59	≤7		35 10YR4/2 45 10YR4/4		MZCL - Si 6 4 C - Clay 1	4 2	HR - All h	l nard rocks or stones (i.e. those nard rocks or stones (i.e. those	which cannot be scratched with which cannot be scratched with which cannot be scratched with the scratched w	th Not Applic	NON - NN	o No 3	31 3	WCI 1	Droughtiness	2	Augered to 100cm, assume same t	to 4-011
				40 10YR4/4		HZCL - Sil 1			nard rocks or stones (i.e. those									125611	
4 TQ 67731 72122 5677	732 172123 51	≤7	0 30	30 10YR4/2	No	MZCL - Si 8 4	4 0	HR - All h	nard rocks or stones (i.e. CH - C	nalk or chalk stones	Not Applic	VSC - Ve N	o No -	13 -8	Ba WCI 1	Droughtiness	3a	Augered to 60cm where IMP.	4-020
				8 10YR4/4 22 10YR5/4		HZCL - SII 5	y loam (medium)	HR - All h	nard rocks or stones (i.e. those	which cannot be scratched wi nalk or chalk stones	th Moderate	MC - M N VC - Ver N	o No					assume root to 80cm in >70% chalk.	
İ				20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones		VC - Ver N						cnaik.	
5 TQ 67731 72223 5677	732 172223 51	≤7		28 10YR4/2		MZCL - Si 6		HR - All h	nard rocks or stones (i.e. CH - C		Not Applic	MC - M N	o No 1	13 6	WCI 1	Droughtiness	2	Augered to 80cm where IMP,	4-02
				27 10YR4/4 20 10YR4/5			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate	MC - M N	o No					assume root to 100cm in >70% chalk.	
			75 80	5 10YR6/4 20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N							
			50 100	20 10110/1		IVIZEE - Silty clay	y ioani (mediani)		73	lak of chair stories	Wioderate	vc - vei iv	o INO						
6 TQ 67731 72323 5677	732 172323 37	≤7		34 10YR4/2				HR - All h		nalk or chalk stones				10 -4	Ba WCI 1	Droughtiness	3a	Augered to 60cm where IMP,	4-03
			34 55 55 60	21 10YR6/4 5 10YR6/4			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate Moderate	VC - Ver N VC - Ver N	o No o No					assume root to 80cm in >70% chalk.	
			60 80	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
7 TO 67831 72022 5678																			_
7 TQ 67831 72022 5678	832 172023 59	≤7		30 10YR4/2 20 10YR5/4	No No	MZCL - Si 15 1 MZCL - Silty clay	11 6 y loam (medium)	HR - All r	nard rocks or stones (i.e. those 30 CH - C	which cannot be scratched wi nalk or chalk stones	Moderate	VC - Ver N	o No - o No	4 -9	Ba WCI 1	Droughtiness	3a	Augered to 75cm where IMP, assume root to 95cm in >70%	4-010
			50 75	25 10YR6/4 20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate	VC - Ver N VC - Ver N	o No					chalk.	
			/5 55	20 10110/1	140	IVIZEE - SILLY CIA	y ioani (mediani)		73	lak of chair stories	Wioderate	vc - vei iv	o INO						
8 TQ 67831 72123 5678	832 172123 48	≤7	0 30	30 10YR4/2	No	MZCL - Si 12	9 6	HR - All h	5 CH - C	nalk or chalk stones	Not Applic	NON - NN	o No 1	13 -3	WCI 1	Droughtiness	2	Augered to 90cm where IMP,	4-019
				25 10YR4/4 30 10YR5/4	No	C - Clay 5			nard rocks or stones (i.e. those	which cannot be scratched wi nalk or chalk stones	th Moderate		o No					assume root to 110cm in >70% chalk.	
			85 90	5 10YR6/4	No	MZCL - Silty clay	y loam (medium)		50 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No					Clidik.	
			90 110	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
9 TQ 67831 72223 5678	832 172223 48	≤7		28 10YR4/3			3 0			nalk or chalk stones				35 -27	Bb WCI 1	Droughtiness	3b	Augered to 40cm where IMP,	4-026
				10 10YR6/4 2 10YR6/3			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate Moderate	VC - Ver N VC - Ver N	o No o No					assume root to 60cm in >70% chalk.	
			40 60	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
10 TQ 67831 72322 5678	832 172323 38	≤7		30 10YR4/2 10 10YR6/3		MZCL - Silty clay	2 0 y loam (medium)	HR - All h		nalk or chalk stones nalk or chalk stones	Moderate	VC - Ver N	o No	28 -18	Bb WCI 1	Droughtiness	3b	Augered to 45cm where IMP, assume root to 65cm in >70%	4-03
				5 10YR6/4 20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N						chalk.	
			13 03	10110/1		lvizez sity cia	y iodiii (iiicaidiii)		,,,	lanco chair stones	Moderate	10 1011							
11 TQ 67831 72423 5678	832 172423 38	≤7	0 28	28 10YR4/2	No	MZCL - Si 4 2	2 0	HR - All h	12 4 0 CH-C	nalk or chalk stones	Not Applic	MC - M N	o No -	48 -44	Bb WCI 1	Droughtiness	3b		4-040
			28 47	19 2.5Y_/2	No	MZCL - Si 0 (0 0	HR - All h	70 0 0 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
12 TQ 67931 72023 5679	932 172023 56	≤7	0 35	35 10YR4/2	No	MZCL - Si 12	9 4	HR - All F	nard rocks or stones (i.e. those	which cannot be scratched wi	th Not Applic	NON - NN	o No c	9 -4	2 WCI 1	Droughtiness	2	Augered to 90cm where IMP,	4-009
			35 65	30 7.5YR4/4	No	C - Clay 5		HR - All h	ard rocks or stones (i.e. those	which cannot be scratched wi	th Moderate	NON - NN	o No				Ī	assume root to 110cm in >70%	
				25 10YR5/4 20 10YR8/1		MZCL - Si 10 MZCL - Si 10		HR - All I		nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N						chalk and flint	

Grid ref.	Alt (m) Slop	e Aspect La	nd use				Chreous Mottles		Glev	Texture		tones - typi	e 1	Ston	es - type 2	P	d	SUBS STR CaCo	3 Mn C		Drought	Wet	Final ALC		Profile notes	Clien
NGR X Y	Air (III) Slot	e Aspect La	To	p Bttm	Thick	Munsell colour Form	m Munsell colour	Form Munsell colour	Gley	rexture	% > 2ci	n > 6cm	Type	% > 2cm	> 6cm Type	Strength S	ze Shap	e SOBS STR Caco	JS IWIII C	MB	w MBp Go	WC Gw	Limitation 1 Limitation 2 Limitation	3 Grade	Profile flotes	Ref.
TQ 67931 72122 567932 172123	48 ≤7		0			10YR4/3					12 8	4	HR - All I	hard rocks or s	tones (i.e. those	vhich cannot be	cratched w	ith Not Applic NON	I - N No	No 31	0 2	WCI 1	Droughtiness	2	Augered to 100, assume same to	4-01
			30	80 120	50 40	10YR4/5 10YR5/5			No No	MZCL - Si	5 Ity clay loa	m (medium	HR - All I	hard rocks or s	tones (i.e. CH - Cl	alk or chalk stor		Moderate NON Moderate VC -		No No					120cm. G2 TS stone, estimated from surface and auger.	
			00	120	40	1011(3) 3				IVIZCE - J	l ciay ioc	iii (iiieaiaii	',	12	CII-CI	laik of criaik stor	c3	Ivioderate vc -	VEILING	140					nom surface and auger.	
TQ 67931 72222 567932 172223	48 ≤7		0			10YR4/2				MZCL - S		0	HR - All I			alk or chalk stor		Not Applic SC -			2 2	WCI 1	Droughtiness	2	Augered to 80cm where IMP,	4-02
			28			10YR4/4 10YR5/4				MZCL - Si MSZL - N			HR - All I			alk or chalk stor		Moderate MC - Moderate VC -		No No					assume root to 100cm in >70% chalk.	
				80	5	10YR6/4			No	MSZL - N	5		HR - All I	40	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No						
			80	100	20	10YR8/1			No	MSZL - N	ledium san	dy silt loam	1	75	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No						
TQ 67931 72323 567932 172323	38 ≤7		0			10YR4/2 10YR6/3					8 4	0 dy silt loam	HR - All I	15		alk or chalk stor		Not Applic VC - Moderate VC -			-29 3b	WCI 1	Droughtiness	3b	Augered to 42cm where IMP, assume root to 60cm in >70%	4-03
						10YR6/4						dy silt loam		70		alk or chalk stor		Moderate VC -							chalk.	
			42	60	18	10YR8/1			No	MSZL - N	edium san	dy silt loam	ı	75	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No						
TQ 67931 72422 567932 172423	38 ≤7					10YR4/2 2.5Y_/2				MZCL - Si MZCL - Si	4 2 0 0	0	HR - All I			alk or chalk stor		Not Applic MC - Moderate VC -		No -48 No	-44 3b	WCI 1	Droughtiness	3b	Chalk at 28cm	4-039
			20		13	2.3.32				IVILUE 3		Ü		,,,,	0 011 01	lank or criticik stor		inoderate re	70,110	140						
														L		1										
TQ 68031 72122 568032 172123	46 ≤7		28			10YR4/2 10YR4/4					15 11 tv clav loa	6 m (heavy)	HR - All I	hard rocks or s	tones (i.e. those CH - Cl	vhich cannot be alk or chalk stor	cratched wi	rith Not Applic SC - Moderate MC	Slig No M No	No -9	-7 3a	WCI 1	Droughtiness	3a	Augered to 65cm where IMP, assume root to 85cm in >70%	4-01
			48	65	17	10YR6/4			No	MZCL - Si	Ity clay loa	m (medium		50	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No					chalk. 3a TS stone - estimate from	
			65	85	20	10YR8/1			No	MZCL - Si	Ity clay loa	m (medium	n)	75	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No					surface and auger, = on Drought?	?
TQ 68031 72223 568032 172223	46 67			25	25	40/04/2			N1-	MZCL - Si	10 0	4	HR - All I	-	CII. CI	alk or chalk stor		Not Applic MC	24 21-	N - 20	0 2	14/61 4	Droughtiness	-	Augered to 60cm where IMP ON	4-02
TQ 08031 /2223 508032 1/2223	46 5/		35			10YR4/3 10YR4/4			No	MZCL - Si	5	4	HR - All I			alk or chalk stor		Moderate SC -	Slig No	No 29	0 2	WC1 1	Droughtiness	2	FLINT. Assume continues similar to	
			60	120	60	10YR5/5				MZCL - S			HR - All I	15	CH - CI	alk or chalk stor	es	Moderate SC -		No					depth, as per adjacent AB up same	ne
																									valley feature (4-018).	
TQ 68031 72322 568032 172323	46 67			25	25	10YR4/2			N	147CL C	8 5	2	LID All I			delah asasah ba		rith Not Applic MC	N4 NI=	N- 20	F 2	WC1 4	Droughtiness	-	Augered to 100cm, assume same t	4.03
TQ 08031 72322 508032 172323	46 5/		35	120	85	10YR4/2 10YR4/4				MZCL - Si		2	HR - All I			alk or chalk stor		Moderate VC -		No 36	5 2	WC1 1	Droughtiness	2	120cm	10 4-03
TO 68031 72423 568032 172423	34 ≤7		0	27	27	10YR4/2			No	MZCL - Si	4 2	0	HR - All I	12 4	0 CH - CI	alk or chalk stor	es	Not Applic MC	MiNo	No -48	-44 3b	WCI 1	Droughtiness	3b	Chalk at 27cm	4-03
						2.5Y_/2				MZCL - S		0	HR - All I	70 0	0 CH - CI	alk or chalk stor	es	Moderate VC -		No						
TQ 68131 72222 568132 172223	46 ≤7		0			10YR4/2					15 11	6	HR - All I	hard rocks or s	tones (i.e. those	vhich cannot be	cratched w	rith Not Applic MC	M No	No -33	-23 3b	WCI 1	Droughtiness	3b	Augered to 45cm where IMP,	4-02
						10YR4/4 10YR7/3				MZCL - Si			HR - All I	5 70		alk or chalk stor		Moderate VC -		No No					assume root to 65cm in >70%	
						10YR7/3 10YR8/1						m (medium m (medium		75		alk or chalk stor alk or chalk stor		Moderate VC - Moderate VC -		No No					chalk.	
						,							•													
TQ 68131 72323 568132 172323	46 ≤7		0			10YR4/2					16 10		HR - All I			alk or chalk stor		Not Applic VC -			-15 3b	WCI 1	Droughtiness	3b	Augered to 50cm where IMP,	4-03
			35	40	5	10YR5/4 10YR6/4						m (mediun m (mediun		15 50		alk or chalk stor alk or chalk stor		Moderate VC - Moderate VC -	Ver No	No					assume root to 70cm in >70% chalk.	
			50	70	20	10YR8/1						m (mediun		75		alk or chalk stor		Moderate VC -		No					Cildik.	
								1	L							1			\perp				<u> </u>			
TQ 68131 72423 568132 172423	33 ≤7					10YR4/2				MZCL - Si		0	HR - All I			alk or chalk stor		Not Applic MC		No -41	-36 3b	WCI 1	Droughtiness	3b	Chalk at 32cm	4-03
			32	52	20	2.5Y_/2			No	MZCL - Si	0	0	HR - All I	70 0	υ CH - Cl	alk or chalk stor	es	Moderate VC -	verNo	NO						
			- 1					1	1		1					1										
TQ 68231 72323 568232 172323	46 ≤7		0			10YR4/2 10YR4/4				MZCL - Si MZCL - Si		3	HR - All I			alk or chalk stor		Not Applic: VC - Moderate VC -	Ver No	No -18	-13 3a	WCI 1	Droughtiness	3a	Augered to 60cm where IMP, assume root to 80cm in >70%	4-029

P	Point Grid ref. NGR X Y Alt (m) Slope of	Aspect Land use	Depth Top Btti 60 80	n Thick	Matrix Munsell colour 10YR8/1	Ochreous Mottles Form Munsell colour		1.0		Stones - to 2cm > 6c loam (medi	m Type	% 75	Stones -> 2cm >>	6cm Typ		ize Shape	SUBS STR Ca	- 1	IME	Drought w MBp Gd	Wet WC G		Final ALC ation 1 Limitation 2 Limitation 3	Grade	Profile notes	Client Ref.
2	25 TQ 68031 72523 568032 172523 34 ≤7		28 70	42	10YR4/3 10YR5/4 2.5Y_/1		No No No	ZL - Silt I	4 2	0 0 0		All F 12 All F 12 All F 90	5 0 5 0 0 0	CH	- Chalk or chalk stor - Chalk or chalk stor - Chalk or chalk stor	es	Not Applic SC Moderate MC Moderate VC	- M No	No	16 2	WCI 1	Droug	ghtiness	2	Chalk at 70cm	6-003

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)
HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC II

WC III

WC III

WC IV

WC VI

ALC Grades

1 2

2 3a

3b

4

5

Non-Ag

None

Gley

Project Number	Project Name				Parcel
C629	Lower Thames	Crossing			ALCSP6
Date of Survey	Survey Type		Surveyor(s)		npany
18-20/03/2019	ALC		RA/AR/RM	Ask	ew Land and Soil
Weather		Relief		Land use and ve	egetation
Dry, Sunny		Level		LEY (Ley Grass)	5600000
					1
Grid Reference			Postcode	Altitude	Area
TQ67437252			DA124TB	45	19.39999962
MAFF prov		MAFF detailed	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
605	1450	120	116	115	1
Bedrock			Superficial depo	sits	
Lewes Nodular Cha	lk Formation		None/Head		
Soil association(s) 1	L:250,000		Deta	niled soil information	
Coombe 1			None	e	
Revision Number			Date Revised		
2			26/03/2019		

Grid ref. R X Y	m) Slope ° Asp	ect Land use		n (cm)	Matrix Ochreous Mottles Munsell colour Form Munsell colou		y Tex	cture Stones - type	Tyne	Stones - type	2 Type	Ped Strength Size Shape	SUBS STR	CaCO3	Mn C	SPL MRw	MBn G	d WC G	Final ALC V Limitation 1 Limitation 2 Limit	ation 3 Grade	Profile notes
67432 72523 567432 172523 45	≤7	- 1			10YR4/2		MS	SZL - M 2	CH - Cha	1	HR - All h	ard rocks or stones (i.e. thos	Not Applic	MC - M	No I	No -9	9 3	WCI 1	Droughtiness	3a	
					10YR4/2	Yes	s M2	CL - Si 1			e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					
		6	65 70	5	7.5YR4/4	No	HC	L - Clar 1	HR - All I	hard rocks or stones (i.	e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					
67445 72424 567445 172424 45	≤7				10YR4/3			'CL - Si 2	CH - Cha			ard rocks or stones (i.e. thos				No 5	9 38	WCI 1	Droughtiness	3a	Chalk present at 70cm depth
					10YR5/4			CL - Si 1 CL - Si 1				nich cannot be scratched with				No					
					10YR6/4 10YR8/1			K - Chi 70		nard rocks or stones (i. ilk or chalk stones	e. tnose wr	nich cannot be scratched with	Moderate			No No					
		l'	70 30	20	10110/1	les	, [K - CHE 70	CII - CIIe	lik of chair stories			Wioderate	VC - VEI		40					
							\perp														
67532 72323 567532 172323 45	≤7		0 40	40	10YR4/3 10YR8/1	No	MZ	'CL - Si 3 K - Cha 70	CH - Cha	1 ilk or chalk stones	HR - All h	ard rocks or stones (i.e. thos	Moderate	MC - M	No I	No -44 No	-40 3l	WCI 1	Droughtiness	3b	chalk present below 40cm; impenetrable with auger 42cm +
		ľ	+0 42	2	10180/1	ies	,	K - CIR 70	CH - CH	lik of Chaik Stories			iviouerate	vc - vei	INO I	NO					impenetrable with auger 42cm +
67532 72423 567532 172423 39	<7		38	38	10YR4/3	No.	M2	CL - Si 2	CH - Cha	1	HR - All h	ard rocks or stones (i.e. thos	F Not Applic	MC - Mi	No I	Vn -27	-20 31	b WCI 1	Droughtiness	3h	difficult to auger 43 cm :
					10YR4/4			CL - Si 1	HR - All I	n – hard rocks or stones (i.	. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					impenetrable with auger
		4	42 62	20	10YR8/1	Yes	СН	K - Cha 70	CH - Cha	lk or chalk stones			Moderate	VC - Ver	No I	No					
67532 72523 567532 172523 39	≤7				10YR4/3			CL - Si 2	CH - Cha		HR - All h	ard rocks or stones (i.e. thos				No -38	-33 3t	WCI 1	Droughtiness	3b	chalk at 35cm difficult to auger
			35 55	20	10YR8/1	Yes	CH	K - Cha 70	CH - Cha	ilk or chalk stones			Moderate	VC - Ver	No I	No					
7522 72722 567522 472726				20	40/02/2			71 144 4	UD 10	Land and an in the		deb account to the second	h Nan		N-	u- c	22 -	14/6:	Danish dia ana		nim in .
7532 72723 567532 172723 28	S /				10YR3/3 7.5YR3/3			SZL - M 1 1 ZL - Fin 1	HR - All I	nard rocks or stones (i.	those wh	nich cannot be scratched with nich cannot be scratched with	h Moderate	SC - Slig	No I	NO 6	22 2	WCI 1	Droughtiness	2	Difficult to auger 70cm+ Stone?
		-	10	31	,	INO INO			rin - All I	II.	criose Wi	nen cannot be scrattiled With	wioderate	JC - Jilg	1'''	•••					
67632 72423 567632 172423 39	≤7		0 40	40	10YR4/2		M7	CL - Si 3 3	CH - Cha	1 1	HR - All F	ard rocks or stones (i.e. thos	Not Applic	VC - Ver	No I	No -30	-24 31	WCI 1	Droughtiness	3b	chalk present at 40cm :
					10YR8/1			K - Cha 70		lk or chalk stones	/ 1111		Moderate			No				30	impenetrable with auger assume
																					rootable
57632 72523 567632 172523 39	≤7	-			10YR4/2			CL - Si 1 1		1 1	HR - All h	ard rocks or stones (i.e. thos	Not Applic	MC - M	No I	No -20	-10 3t	b WC I	Droughtiness	3b	Difficult to auger 60cm stone (no
					10YR4/3			CL - Si 1				nich cannot be scratched with				No					evidence of chalk at 60cm-auger
		-	45 60	15	10YR5/2	Yes	MZ	CL - Si 2	HR - All I	nard rocks or stones (i. I	e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					would not penetrate)
							\perp														
7632 72723 567632 172723 28	≤7				10YR4/2			ZL - M 1 1	HR - All I	hard rocks or stones (i.	those wh	nich cannot be scratched with	h Not Applic	SC - Slig	No I	No -18	-7 38	WCI 1	Droughtiness	3a	Difficult to auger 60cm stone- flin
		-	ss 60	22	7.5YR4/3	No	I _{M2}	CL - Si 1 1	HK - All I	nard rocks or stones (i.	e. those wh	nich cannot be scratched with	nivioderate	SC - Slig	NO I	NO					type
7732 72423 567732 172423 37			n 20	20	10YR4/2	V		CL - Cla 1 1	CH Ch-	1 1	LID. AU-L	and racks or stones (i.e. *b	& Not Appli-	MC NA	No.	No. 24	-15 31	h WC! 1	Droughtiness	3h	Diffiult to auger E9cm + chell-
1132 12423 301/32 1/2423 3/	≥/				10YR5/4			CL - Cla 1 1			nn - All f those wh	ard rocks or stones (i.e. thos nich cannot be scratched with	h Moderate	MC - M	No I	VO -24	-13 31	VVCI 1	Droughtiness	30	Diffiult to auger 58cm + chalk present
					10YR5/4			CL - Si 1 1	HR - All I	hard rocks or stones (i.	e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					
7732 72523 567732 172523 37	≤7				10YR4/2			CL - Si 1		lk or chalk stones			Not Applic	MC - M	No I	No 22	8 2	WCI 1	Droughtiness	2	
					10YR4/4			L - Clar 2		lk or chalk stones			Moderate	MC - M	No I	No					
							\perp														
						1	10.47	CL - Si 10	CH - Cha	44	HD - All F	and racks or stones (i a +	dates Applie	DUC MA	Jan-	No EE	E1 4	IMC I 1	Droughtiness	14	1
7832 72523 567832 172523 38	≤7		27								IIIV - All I	ard rocks or stones (i.e. thos	SE NOT Applic	vc - ver	INO I		-31 4	1	Di Oughtiness	4	
832 72523 567832 172523 38	≤7				10YR8/1			K - Cha 70		ilk or chalk stones	IIIX - AII I	iaru rucks ur scones (i.e. thos	Moderate	VC - Ver	No I	No -33	-51 4	WCI	oroughaness.	4	

Grid ref.	Depth (cm) Matrix Ochreous Mottles	Grey Mottles Stones - type 1	Stones - type 2 Ped	Drought Wet	Final ALC	Clier
int NGR X Y Alt (m) Slope ° Aspect	Top Bttm Thick Munsell colour Form Munsell colour		% > 2cm > 6cm Type Strength Size Shape SUBS STR CaCO3	Mn C SPL MBw MBp Gd WC Gw		Profile notes Ref.
TQ 67932 72523 567932 172523 38 ≤7	0 28 28 10YR4/3 28 35 7 10YR5/4 35 60 25 10YR8/1	No MZCL - Si 8 CH - CH No MZCL - Si 8 CH -		No No	Droughtiness 3b	6-00
TQ 67959 72620 567959 172620 24 ≤7	0 27 27 10YRS/3 27 35 8 10YR8/1 35 55 20 10YR8/1		a, 4 HR - All hard rocks or stones (i.e. those Not Applic MC - M Moderate VC - Ver M	No No	Droughtiness 3b	6-00
TQ 67853 72608 567853 172608 30 ≤7	0 20 20	CHK - Chalk	Not Applicable	No -100 -96 4 WC I Nor	n-Ag Droughtiness 4	Agricultural building 6-00
TQ 67732 72623 567732 172623 27 ≤7	0 35 35 7.5YR4/2 35 45 10 7.5YR4/3 45 65 20 7.5YR5/3	No HZCL - Sil 1 HR - Al	alk or chalk stones And rocks or stones (i.e. those which cannot be scratched with Moderate MC - M. hard rocks or stones (i.e. those which cannot be scratched with Moderate MC - M.		Droughtiness 3a	Augered to 65cm then chalk on auger. Impenetrable to auger.
TQ 67632 72623 567632 172623 28 ≤7	0 38 38 10YR4/2 38 40 2 10YR8/1		a 1	No No -47 -43 3b WC 1 1	Droughtiness 3b	Assume chalk is rootable 6-01
TQ 67432 72623 567432 172623 33 s7	0 40 40 10YR4/2 40 50 10 7.5YR4/2 50 70 20 7.5YR4/3	Yes MZCL - Si 1 HR - Al	hard rocks or stones (i.e. those which cannot be scratched with Not Applic MC - M hard rocks or stones (i.e. those which cannot be scratched with Moderate MC - M hard rocks or stones (i.e. those which cannot be scratched with Moderate MC - M.	No No	Droughtiness 3a	NOTE 2 point labelled 6-011 on map. Augered to 70cm-stone
TQ 67532 72623 567532 172623 28 ≤7	0 30 30 10YR4/2 30 42 12 10YR4/3 42 48 6 10YR8/1	No MZCL - Si 1 CH - Ch	a 1 1 HR - All hard rocks or stones (i.e. those Not Applic MC - Mr. alk or chalk stones alk or chalk stones Moderate MC - M Moderate VC - Ver	No No	Droughtiness 3b	NOTE 2 point labelled 6-011 on map. This point identified as 6-011 a. Augered to 48cm then chalk impenetrable to auger
TQ 67732 72723 567732 172723 27 s7	0 38 38 10YR3/2 38 90 52 10YR4/2		alk or chalk stones Not Applic MC - M. Moderate MC - M. Moderate MC - M.	No No 12 10 2 WCI 1 No No	Droughtiness 2	Augered to 90cm - stone 6-01

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platv MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV

WC V

WC VI

ALC Grades

1 2

За

3b

4

5

Non-Ag

None Gley

Project Number	Project Name				Parcel
C629	Lower Thame	s Crossing			ALCSP7
Date of Survey	Survey Type		Surveyor(s)	Cor	npany
18-20/03/2019			RA/AR/RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	regetation
Dry, Sunny		Level		LEY (Ley Grass)	_
			<u> </u>	T	1.
Grid Reference			Postcode	Altitude	Area
TQ67937272			DA124TB	30	12.10000038
MAFF prov		MAFF detailed	<u> </u>	Flooding	
Grade 3		None		Flood Zone 1	
			_		
AAR	AT0	MDw	MDp	FCD	Climate grade
597	1467	122	119	113	1
Bedrock			C	a cita	
			Superficial depo		
Lewes Nodular Cha	ilk Formation/Tha	net Formation	None/Taplow G	Gravel/Lynch Hill Grave	el Member
Soil association(s) 1	1:250,000		Deta	ailed soil information	
Coombe 1	-,		Non		
Revision Number			Date Revised		
2			26/03/2019		

t Grid ref.	Alt (m)	Slope o Asi	pect Land use	De	pth (cm)	Matrix	Ochreous Mot olour Form Munsell co		Gley	Texture	0/ - ^	Stones - typ	21	0/ 1- 2	Stones - ty	/pe 2	Ped Strength Size Shape	SUBS STR	CaCO3	Mn C SI	PL L	rought	Wet	Final ALC Limitation 1 Limitation 2 Limitatio	- 2 6 :	Profile notes	Clie
NGR X Y TQ 67931 72722 567932 1		≤7	CFR			10YR5/3		iour Form Munsell cold	Vec.	MZCL - S	1 0	m > 6cm	I I y pe	% >20 1 0	cm > 6ci	m Type	Strength Size Shape lk or chalk stones	Not Applie	c MC - M	No N	WRW	IMBD IQU	Wet WC Gw	Droughtiness Limitation 2 Limitation	n 3 Grade		3-
100/331/2/22 30/332 1	12723 30	2/	CER	40	50 20	10YR8/1			Yes	CHK - Ch	1 0	0	HR - Al	70	Ü		lik or chalk stones	Moderate				-20 30	wer 1	Drougnuness	30		3
TQ 67931 72823 567932 1	72823 14	≤7	CER	38 5	55 17	10YR4/2 10YR5/6 10YR5/6			No	MZCL - S MZCL - S MZCL - S	1 0		HR - Al	PNO 1 PNO 1 PNO 70		CH - Ch	olk or chalk stones olk or chalk stones olk or chalk stones	Not Appli Moderate Moderate	SC - Slig	No N	lo	-10 3a	WCI 1	Droughtiness	3a	Difficult to auger 55cm+ chalky rubble	6-
TQ 67931 72923 567932 1	72923 14	≤7	CER	38 :	70 32	10YR4/2 7.5YR4/3 5YR4/3				MZCL - S MZCL - S C - Clay	1 0 1 0 1 0	0 0 0	HR - Al	hard rocks	s or stones	(i.e. those w	hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit	th Moderate	c SC - Slig SC - Slig NON - N	No N	lo	6 2	WC II 2	Droughtiness Wetness	2	Red soil at 70cm fig 8 used ALC guidelines	6
TQ 67931 73022 567932 1	73023 6	≤7	CER	38	78 40	10YR4/2 7.5YR4/3 10YR4/4			No	MZCL - S MCL - Cla MZCL - S	1 0	0 0 0	HR - Al	F5 0 F5 0 F70 0	0	CH - Ch	olk or chalk stones olk or chalk stones or chalk stones	Not Appli Moderate Moderate	VC - Ve	No N	lo	1 2	WCI 1	Droughtiness	2	At 80cm chalk present impenetrable to auger	6
TQ 67931 73123 567932 1	73123 6	≤7	CER	38	70 32	10YR4/3 10YR4/3 5YR4/4			No	MZCL - S FSZL - Fir C - Clay	1 0		HR - Al	hard rocks	s or stones	(i.e. those w	hich cannot be scratched withich cannot be scratched within the s	th Moderate	C NON - N NON - N	No N	lo	19 2	WC II 2	Droughtiness Wetness	2	SPI assumed in red soil; ALC guidelines fig 8	6-
TQ 68131 72623 568132 1	72623 20	≤7	ОТН	35 4	10 5	10YR4/3 10YR4/3 7.5YR4/3			No	MZCL - S HZCL - Si HZCL - Si	1 0	0 0 0	HR - Al	F 2 0 F 12 0 F 20 0	0 0 0	CH - Ch	alk or chalk stones alk or chalk stones alk or chalk stones	Not Appli Moderate Moderate	VC - Ve	No N	lo	1 2	WCI 1	Droughtiness	2	scrub area	6
TQ 68131 72723 568132 1	72723 20	≤7	CER	35	10 5	10YR4/2 10YR4/3 7.5YR4/2			No	MZCL - S MZCL - S MZCL - S	1 0		HR - Al	F2 0 F10 0 F20 0		CH - Ch	lik or chalk stones lik or chalk stones lik or chalk stones	Not Appli Moderate Moderate	VC - Ve	No Y	es	1 3a	WCI 1	Droughtiness	3a		6
TQ 68031 72723 568032 1	72723 24	≤7	CER	35 4 48 3	18 13 70 22	10YR4/2 10YR4/2 7.5YR4/2 7.5YR4/2			Yes Yes	MZCL - S HZCL - Si MCL - Cla MCL - Cla	1 0	0	HR - Al HR - Al	F5 0 F5 0 F5 0 F70 0	0	CH - Ch CH - Ch	alk or chalk stones alk or chalk stones alk or chalk stones alk or chalk stones	Not Appli Moderate Moderate Moderate	VC - Ver	No N	lo lo	1 3a	WCI 1	Droughtiness	3a	Difficult to auger 70cm + chalky stones present	6
TQ 68131 72822 568132 1	72823 13	≤7	CER	38 8	30 42	7.5YR4/2 7.5YR4/3 7.5YR4/3			No	MSZL - N FSZL - Fir FSZL - Fir	1 0		HR - Al	F2 0 F10 0 F70 0		CH - Ch	alk or chalk stones alk or chalk stones alk or chalk stones	Not Appli Moderate Moderate	VC - Ve	No N	lo	15 1	WCI 1	Droughtiness Wetness	1	Difficult to auger 80cm -chalk	6
TQ 68031 72823 568032 1	72823 15	≤7	CER	35 4 45 5	15 10 55 10	10YR4/2 7.5YR4/4 10YR7/3 10YR8/1			No No	MZCL - S MZCL - S MZCL - S MZCL - S	2	0					lik or chalk stones lik or chalk stones	Not Appli Moderate Moderate Moderate	MC - M	No N	lo lo	-5 3a	WCI 1	Droughtiness	3a	Augered to 55cm where IMP chall assume roots to 75cm in >70% chalk then stop rooting.	lk, 6
TQ 68031 72922 568032 1	72923 15	≤7	CER	30 5 50 7	50 20 70 20 90 20	10YR4/3 7.5YR4/4 7.5YR4/5 7.5YR4/5 10YR7/4			No No No	SCL - San SCL - San MSL - Mc C - Clay MZCL - S	10 10 10	0	HR - AI HR - AI HR - AI	hard rocks	s or stones s or stones s or stones	(i.e. those w	hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit	th Moderate th Moderate	NON -	No N No N No N	lo lo lo	-17 3a	WCI 1	Droughtiness	3a	Augered to 100cm, assume continues same to 120cm.	E
TQ 68031 73023 568032 1	73023 5	≤7	CER	30 S	55 25 90 35	10YR4/3 10YR4/4 10YR4/5 7.5YR4/6			No No	SCL - San SCL - San HCL - Cla SCL - San	5 5	0	HR - Al HR - Al	hard rocks	s or stones s or stones	(i.e. those w (i.e. those w	hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit	th Moderate th Moderate	NON -	No N	lo lo	-13 3a	WCI 1	Droughtiness	3a	Augered to 100cm, assume continues same to 120cm	6-

Point Grid ref. Alt (m) Slope ° Aspect Land use Depth (cm) Matrix Matrix Top Bitm Thick Munsell colour	Ochreous Mottles Grey Mottles Form Munsell colour Form Munsell colour Form Gley Texture	Stones - type 1 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought Wet Wet Shape Gd WC Gw	Final ALC Limitation 1 Limitation 2 Limitation 3 Grade	Profile notes Client Ref.
13 TQ 68031 73123 568032 173123 5 57 CER 0 30 30 10YR4/2 30 80 50 10YR4/4 80 90 10 10YR4/4 90 120 30 10YR4/4	NO MSL - N NO MSL - N NO MSL - N	10 HR - All hard rocks or stones (i.e. those which cannot be scr. 30 HR - All hard rocks or stones (i.e. those which cannot be scr.	ratched with Moderate NON - N NO NO NO ratched with Moderate NON - N NO NO		Augered to 90cm where IMP due to 6-040 stone, assume continues to 120cm with c. 50% HR

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC II

WC III

WC IV

WC V

WC VI

ALC Grades

1 2

2 3a

3b

4

5

Non-Ag

None Gley

Project Number	Project Name				Parcel
C629	Lower Thame	s Crossing ALC Survey			ALCSP1
Date of Survey	Survey Type		Surveyor(s)	Со	mpany
18-20/03/2019	ALC		RA/AR/RM	As	kew Land and Soil
Weather		Relief		Land use and	vegetation
Dry, Sunny		Level		LEY (Ley Grass	
				•	
Grid Reference			Postcode	Altitude	Area
TQ66837022			DA123BH	69	26
MAFF prov		MAFF detailed	d	Flooding	
Grade 1		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
622	1423	116	111	120	1
<u> </u>			<u> </u>		
Bedrock			Superficial dep	oosits	
Thanet Formation			None/Head		
Soil association(s)	1.250.000		Det	tailed soil information	1
Fyfield 4	1.230,000		Noi		1
i yilelu 4			INOI	IIC .	
Revision Number			Date Revised		
2			26/03/2019		

NGR	Grid ref.	Y	n) Slope ^o	Aspect	Land use To		Thick	Munsell colour	r Form Munsell co	les Grey Mo lour Form Munse	ell colour	ey Textu	% > 2cm > 6cm T	ype	Stones - type 2 Ped % > 2cm > 6cm Type Strength Size Sha	e SUBS ST	TR CaCO3 Mn C	SPL N	1Bw MBp	Gd W	C Gw	Final ALC Limitation 1 Limitation 2 Limitation	3 Grade	Profile notes	Ref.
TQ 66831	1 70223 566832	170223 69	≤7			25 40 120	15		FD - Ft 10YR5/6 CD - C 10YR5/6	CF - Cc 2.5Y6/	'2 Ye Ye	s MZCL	- Si1 H	R - All h	nard rocks or stones (i.e. those which cannot be scratched hard rocks or stones (i.e. those which cannot be scratched hard rocks or stones (i.e. those which cannot be scratched	wi Modera	ite NON - NOn-ca	No No Yes	4 13	1 W	CIII 2	Wetness		2 Gley below 25cm, possible SPL in ZC below 40cm.	2-02
TQ 67131	1 70023 567132	170023 77	≤7			90	65				No No	FSZL -	Fin 2 H	R - All h	uard rocks or stones (i.e. those which cannot be scratched the cannot be scrat	wi Modera	ite NON - No		3 36	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-00
					90	120	30	10YR5/4			No	FSZL -	Fin 0 H	R - All h	ard rocks or stones (i.e. those which cannot be scratched	wi Modera	ite NON - N No	No							
TQ 67031	1 70023 567032	170023 77	≤7		0 28	28 120		10YR4/3 10YR5/4			No No				aard rocks or stones (i.e. those which cannot be scratched lard rocks or stones (i.e. those which cannot be scratched			No 9 No	1 35	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-01
TQ 67201	1 70035 567202	170035 80	≤7		0 20 55 80	55 80	35 25	10YR3/2 10YR5/6 10YR5/4 10YR5/4	FF - F€ 10YR5/6		No No No	FSZL -	Fin 2 H Fin 10 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched	wi Modera wi Modera	ite SC - Slig No ite SC - Slig No	No 6 No No No	6 33	1 W	CI 1	Droughtiness Wetness	1		2-00
TQ 67331	1 70123 567332	170123 92	≤7		41	41 60	13 19	10YR4/4			No No No	FSZL -	Fir1 H	R - All h	wel with non-porous (hard) stones hard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched	wi Modera	olic NON - N No ite NON - N No ite NON - N No	No No	0 27	1 W	CI 1	Gradient	3b	Subgrade 3b due to gradient/microreleif	2-00
TQ 67231	1 70122 567232	170123 80	≤7		0	18	18	10YR3/2			No.	o FSZL -	Fir ₂ H	R - All h	aard rocks or stones (i.e. those which cannot be scratched	wi Not App	olic NON - N No	No No 6	7 33	1 W	CI 1	Droughtiness Wetness	1		2-0:
					60	60 80 120	20	10YR5/4	FF - F€ 10YR5/6		No No	FSZL -	Fin 10 H	R - All h	aard rocks or stones (i.e. those which cannot be scratched aard rocks or stones (i.e. those which cannot be scratched aard rocks or stones (i.e. those which cannot be scratched	wi Modera	ite SC - Slig No	No No No							
TQ 67131	170123 567132	170123 77	≤7			25 75 120	50				No No		Fin0 H	R - All h	aard rocks or stones (i.e. those which cannot be scratched lard r	wi Modera	ite NON - No	No 7. No No	3 37	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-0
TQ 67031	1 70122 567032	170123 77	≤7			50 80	25 30	10YR4/3 10YR5/4 10YR6/4 10YR6/4	CD - G 10YR5/6		No No Ye No	FSZL -	Fir1 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched and rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched the scratched are stones or stones (i.e. those which cannot be scratched the scratched the scratched are stones or stones (i.e. those which cannot be scratched the scratch	wi Modera wi Modera	ite NON - N No ite NON - N No	No 8 No No No	7 37	1 W	CI 1	Droughtiness Wetness	1	Gley 50-80cm. WCI, probably Grade 1	2-0
TQ 66931	1 70123 566932	170123 74	≤7			28 70 120	42		CD - C 10YR5/6		No No Ye		Fir 1 H	R - All h	nard rocks or stones (i.e. those which cannot be scratched and rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones).	wi Modera	ite NON - NO	No 6 No No	0 37	1 W	CII 1	Droughtiness Wetness	1	Gley and possible SPL in ZC LSS, but still probably Grade 1	2-01
TQ 67331	1 70222 567332	170223 82	≤7		0 28 41 60	41	13 19	10YR4/3 10YR4/4 10YR4/4 10YR4/4			No No No	FSZL -	Fir1 H	R - All h R - All h	vel with non-porous (hard) stones ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched	wi Modera wi Modera	ite NON - N No		0 27	1 W	CI 1	Gradient	3b	Subgrade 3b due to gradient/microrelief	2-0
TQ 67231	1 70223 567232	170223 73	≤7			47 80	24 33		FF - F€ 10YR5/6		No No No	FSZL - FSZL -	Fin 3 H Fin 10 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched ard rocks or stones (i.e. those which cannot be scratched are the	wi Modera wi Modera	ite SC - Slig No ite SC - Slig No	No 6 No No No	5 31	1 W	CI 1	Droughtiness Wetness	1		2-01
TQ 67131	1 70222 567132	170223 74	≤7		50	50	25 30	10YR5/4	FF - F€ 10YR5/6		No No No	FSZL -	Fin 3 H Fin 10 H	R - All h R - All h	hard rocks or stones (i.e. those which cannot be scratched lard rocks or stones (i.e. those which cannot be scratched and rocks or stones (i.e. those which cannot be scratched lard rocks or stones (i.e. those which cannot be scratched	wi Modera wi Modera	ite SC - Slig No ite SC - Slig No	No 6 No No No	5 31	1 W	CI 1	Droughtiness Wetness	1	Probably Grade 1	2-02

Grid ref.	Alt (m) Class 0	Accord Land			Matrix	Ochreous N		Grey Mottles	Clave	outure	Stones - t			- type 2	Pe		CLIDS STO		CCDI	Drought	Wet		Final ALC		Drofile notes
NGR X Y	Alt (m) Slope °	Aspect Land use				ur Form Munsel		m Munsell colour	Gley T	exture %					Strength Si	ze Shape	SUBS STR	LaCO3 Mr	I C SPL ME		id WC Gw	Limitation 1	Limitation 2 Limitation	n 3 Grade	Profile notes
TQ 67031 70223 567032 17022	3 74 ≤7	•	0 25	25	10YR4/2				No N	AZCL - SI 2	-	HR - All h	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Not Applic	NON - Non	-cal No 77	19 1	WCI 1	Droughtiness	Wetness	1	Probably Grade 1
			25 50	25	10YR5/4				No N	AZCL - Si 1		HR - All I	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Moderate 1	NON - NO	No						
			50 12	0 70	10YR5/4				No F	SZL - Fir 1		HR - All h	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Moderate	NON - NO	No						
TQ 66931 70222 566932 17022	3 72 ≤7		0 30	30	10YR4/2					AZCL - SI 3		HR - All h	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Not Applic	NON - NO	No 75	18 1	WCI 1	Droughtiness	Wetness	1	Gley in SS, but no SPL
					2.5Y5/3	FP - F€ 10YR5/				IZCL - Sil 1					which cannot be										
			55 12	0 65	2.5Y6/3	CP - Ct 7.5YR5/	/8		Yes F	SZL - Fin 1		HR - All I	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Moderate	NON - NO	No						
													1 101	a											
TQ 67331 70323 567332 17032	3 82 ≤/				10YR4/3					SZL - Fin 5 SZL - Fin 1			vel with non-po							26 1	WCI 1	Droughtiness	Wetness	1	
			30 40 40 60		10YR4/4 10YR4/4					SL - Fine1					which cannot be which cannot be										
					10YR4/4					SL - Fine1					which cannot be										
			00 10	0 40	101 K4/4				INO F.	2r - LIII61		nn - All I	iai u rocks or sto	illes (i.e. tilose	I	scrattieu wi	iviouei ate ii	NOIN - IVINO	INO						
TQ 67231 70322 567232 17032	3 73 <7		0 25	25	10YR4/2				No F	SZL - Fin 10		HR - All F	ard rocks or ste	nes (i.e. those	which cannot be	scratched wi	Not Applic	NON - NO	No 58	24 1	WCI 1	Droughtiness	Wetness	1	Probably Grade 1
					10YR5/4					SZL - Fin 10					which cannot be					1		Di Oubilliless		1	
					10YR5/4					AZCL - Si 10					which cannot be										
			00 11	0 40	2011(5) 4				1.0	nece 5110			iara rocks or ste	ines (i.e. those		scrutciicu wi	inouclute i	1011							
Q 67131 70323 567132 17032	3 74 <7		0 28	28	10YR4/2				No F	SZL - Fir 3		HR - All I	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Not Applicat	NON - NO	No 94	36 1	WCI 1	Droughtiness	Wetness	1	Probably Grade 1
Q0/151/0525 50/152 1/051	, , , _,				10YR5/4					SZL - Fin 1					which cannot be					30 1		brodgittiicss	Wethess	1	1100001 CIUCC I
					,										l				1						
TQ 67031 70322 567032 17032	3 74 ≤7		0 25	25	10YR4/2				No N	AZCL - SI 4		HR - All h	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Not Applic	C - Slig No	No 76	20 1	WCI 1	Droughtiness	Wetness	1	Probably Grade 1
			25 45	20	10YR4/3				No N	AZCL - SI 2					which cannot be							_			
			45 12	0 75	10YR4/4				No F	SZL - Fin 2		HR - All I	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Moderate S	C - Slig No	No						
TQ 66931 70323 566932 17032	3 72 ≤7				10YR4/2					SZL - Fin 1					which cannot be					37 1	WCI 1	Droughtiness	Wetness	1	Probably Grade 1
			25 35		10YR4/3					SZL - Fin 1					which cannot be										
					10YR5/4					SZL - Fin 1					which cannot be										
			85 12	0 35	10YR5/3				No N	AZCL - Si 1		HR - All h	ard rocks or sto	nes (i.e. those	which cannot be	scratched wi	Moderate	NON - N No	No						
TO C7334 70433 FC7333	2.02			25	40VD4/2					C71 F1-4				// - Ab	obleh ereset i			10N	N	27 -	uici -	Downstat.	14/		+
TQ 67331 70422 567332 17042	5 8Z S/				10YR4/2					SZL - Fin 1					which cannot be					3/ 1	WCI 1	Droughtiness	vvetness	1	
			25 35		10YR4/3					SZL - Fin 1					which cannot be										
					10YR5/4					SZL - Fin 1					which cannot be										
			85 12	U 35	10YR5/3				No N	ΛZCL - Si 1		HK - All I	iard rocks or sto	ines (i.e. those	which cannot be	scratched wi	ivioderate	NON - NNO	No						
TQ 67231 70423 567232 17042	72 67		0 25	25	10YR4/2				No r	SZL - Fin 2		LID . All I	and rocks or sta	nos (i o thoso	which cannot be	ceratched	Not Applica	NON - NAIO	No or	27 1	WCI 1	Droughtiness		1	Auger to 100cm. Probably grade :
1401231 10423 301232 11042	,,, 5/				10YR4/2 10YR5/4					SZL - FINZ SZL - FinO					which cannot be which cannot be					5/ 1	WC1 1	prougnitiness		1	Auger to 100cm. Probably grade .
			25 12	0 95	101K5/4				NO F	JZL - FINU		HK - All I	iai u rocks or sto	nies (i.e. tnose	willen cannot be	scrattened Wi	ivioderate	NON - INNO	INO						
ND			+						+						 				_		+				
							1																		

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

Stone Type
CH - Chalk or chalk stones
FSST - Soft fine grained sandstones
GH - Gravel with non-porous (hard) stones

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

. . .

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm Extremely hard

N/A

Calcareousnes

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2

3a

3b

4 5

Non-Ag

Gley

None Glev

N/A

ZR - Soft, argillaceous or silty rocks or stones

C629 LTC ALCSP1 Revision 1 Revision Date 26/03/2019

SLST - Soft oolitic or dolomitic limestones

MSST - Soft, medium or coarse grained sandstones SI - Soft 'weathered' igneous or metamorphic rocks or stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

Project Number	Project Name				Parcel									
C629	Lower Thames	Crossing			ALCSP2									
Date of Survey	Survey Type		Surveyor(s)											
18-20/03/2019			RA/AR/RM	ew Land and Soil										
Weather		Relief		Land use and v	egetation									
Dry, Sunny		Level		LEY (Ley Grass)										
					1									
Grid Reference			Postcode	Altitude	Area									
TQ67037042			DA124AA	74	23.5									
NAA 55		DAASS JOURNAL		let is										
MAFF prov		MAFF detailed	<u> </u>	Flooding										
Grade 1/2		None		Flood Zone 1										
AAR	AT0	MDw	MDp	FCD	Climate grade									
624	1418	116	111	120	1									
Bedrock			Superficial dans	cito										
				Superficial deposits										
Thanet Formation			None											
Soil association(s) 1	:250,000		Deta	iled soil information										
Fyfield 4			None	е										
Revision Number			Date Revised											
2			26/03/2019											

) Slope O Aspect	Land use	-1	(cm)		Ochreous Mottle		Otties	y Texture	Stone	es - type 1		Stones - type 2	_	Ped	SUBS STR	CaCO3 Mr	C SPL	Drought	Wet	Unchart a Lo	Final ALC	Profile notes	Cli
NGR X Y 745 (11) TQ 67032 70422 567032 170423 74	<7	To		_	Munsell colour 10YR3/3	Form Munsell cold	ur Form Munse	ell colour	MCT	% > 2cm	> 6cm Typ	e %	> 2cm > 6cm Typ	pe Stre	Ped ength Size Shape	h Not AI'		MI		d WC Gw		nitation 2 Limitation 3 Grade	2	Re 2-
IQ 6/032 /0422 56/032 1/0423 /4	S/	27			7.5YR4/3			INU	MSZL - M MCL - Cla	1	LIV.	- All Hal u I	ocks or stories (i.e. till	ose willen c	cannot be scratched wit cannot be scratched wit	III INOL APPIIC	NON - NON	NO 21	8 2	WCI 1	Droughtiness		2	2
					10YR5/4				HCL - Clay						cannot be scratched wit									
														1										
TO 66931 70423 566932 170423 72	-7	0	20	20	10YR3/3			No	MSZL - M	1	шп	All bard a	racks as stance (i.e. the	aca which o	cannot be scratched wit	h Not Applic	NON A No	No. 22	0 2	WCI 1	Droughtinoss	2		-
10 00931 70423 500932 170423 72	5/				7.5YR4/3				MCL - Cla						cannot be scratched wit cannot be scratched wit				9 2	WCI I	Droughtiness	2		
					10YR5/4				HCL - Clay						cannot be scratched wit									
												Ī												
TQ 67031 70523 567032 170523 72	_				10YR3/3																			
Q 6/031 /0523 56/032 1/0523 /2	S/	0			7.5YR4/3			No No	MSZL - M MCL - Cla	1	HR	- All hard i	rocks or stones (i.e. the	ose which o	cannot be scratched wit cannot be scratched wit	h Moderate	NON - NON	NO 22	9 2	WCI 1	Drougntiness	2	Occasional weather sandstone fragment 40-100 cm	٠
					10YR5/4				HCL - Cla						cannot be scratched wit								magment 40-100 cm	- 1
		1.2			,					_		1	(
TO 66931 70522 566932 170523 70					10YR4/2				1.101									1				_		-
14 00331 70522 566932 170523 70	S /	1-							MCL - Cla				chalk stones	aca which	cannot be scratched wit				8 3	WCI 1	Droughtiness	3a	Difficult to auger 83cm- chalk	
					10YR5/3 10YR5/4				MZCL - Si						cannot be scratched wit cannot be scratched wit					1				
		03	0.5	10	1011(3)-4			140	IVIZCE - SI	-	1111	- All Haru I	ocks or stories (i.e. till	ose willen e	calliot be scrattiled wit	Wioderate	VC - VEI IVO	1,40						
																								$\overline{}$
TQ 67131 70614 567132 170614 72	≤7				10YR3/2				MZCL - Si		0 HR	- All hard i	rocks or stones (i.e. the	ose which o	cannot be scratched wit	Not Applic	NON - NO	No 14	2 2	WCI 1	Droughtiness	2		
					10YR6/4				MZCL - Si						cannot be scratched wit									
		52	120	68	10YR6/3			Yes	HZCL - Sil	1 0	0 HR	- All hard i	rocks or stones (i.e. the	ose which c	cannot be scratched wit	h Poor	NON - NO	Yes						
Q 66931 70623 566932 170623 70	≤7	0			10YR4/2			No	MZCL - Si	1 0	0 HR	- All hard i	rocks or stones (i.e. the	ose which c	cannot be scratched wit	h Not Applic	NON - NO	No 23	4 2	WC III 3a	Wetness	3a		
		25	54	29	10YR5/3	FF - Fe 7.5YR5/6	FF - Fe 2.5Y6/		HZCL - Sil		0 HR	- All hard i	rocks or stones (i.e. the	ose which o	cannot be scratched wit	h Moderate								
		54	120	66	10YR6/3		CD - Ci 2.5Y6/	/1 Yes	ZC - Silty	1 0	0 HR	- All hard i	rocks or stones (i.e. the	ose which c	cannot be scratched wit	h Poor	NON - NO	Yes						
TO 66931 70723 566932 170723 72	<7	0	26	26	10YR4/2			No	MZCL - Si	1 0	0 HR	- All hard i	rocks or stones (i.e. the	ose which o	cannot be scratched wit	h Not Applic	NON - N No	No. 22	2 2	WC III 3a	Wetness	3a		
14 00331 70723 300332 170723 72		26	50	24	10YR5/3	FF - Fe 7.5YR5/6	FF - Fe 2.5Y6/		HZCL - Sil		0 HR	- All hard i	rocks or stones (i.e. the	ose which c	cannot be scratched wit	h Moderate	NON - N No	No II		, Ju	Wedness	50		
		50	120	70	10YR6/3		CD - Ci 2.5Y6/		ZC - Silty						cannot be scratched wit		NON - NO							
TO 67031 70823 567032 170823 72	-7	0	30	30	10YR4/2			Vac	MSZL - M	1 1	CH	- Chalk or	chalk stones			Not Applic	SC - Slig No	No. 29	12 2	WCI 1	Droughtiness	2		
100703170023 307032 170023 72	37	1-			10YR4/3				MCL - Cla					nse which c	cannot be scratched wit	h Moderate	SC - Slig No	No 20	12 2	WC' I	Droughtiness	_		
					10YR4/3				HZCL - Sil						cannot be scratched wit									
		80	100	20	2.5Y5/2			Yes	FSL - Fine	1					cannot be scratched wit									
							1											1						
TQ 66931 70822 566932 170823 72			20	20	10YR4/2				MZCL - Si	1 1		Chall	-6-11			Non Assi	NAC NA	No. 17	42 2	14/01 1	Daniel de la constante de la c			\dashv
14 00331 /0822 200932 1/0823 72	5/				10YR4/2 10YR4/2				MZCL - Sil				chalk stones ith norous stones (mai	inly soft eta	one types listed above)	Moderate	MC - M No	No 17	13 2	WCI 1	Droughtiness	2		
					7.5YR4/2				HZCL - SII						one types listed above)					1				
					10YR5/3				C - Clay	1					one types listed above)		SC - Slig No			1				
					,=				,		33	1	,	, , , , , , ,	.,,			1		1				
																				1				
TQ 67131 70923 567132 170923 71	≤7				10YR4/1			Yes	MZCL - Si	1	HR	- All hard i	rocks or stones (i.e. the	ose which o	cannot be scratched wit	Not Applic	NON - NO	No 10	11 2	WCI 1	Droughtiness	2		
					10YR3/2				HZCL - Sil HCL - Clay						cannot be scratched wit cannot be scratched wit					1				
					7.5YR4/1 2.5Y5/2		1		C - Clay	1					cannot be scratched wit cannot be scratched wit									
		/0	30		,2			les	Ciay	-	iik	, un rien d i	or scories (i.e. till		or oc scrattified Wit	, viouerate				1				
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TQ 67031 70922 567032 170923 71	≤7	0			10YR4/2				MZCL - Si				chalk stones			Not Applic	MC - M No	No 17	12 2	WCI 1	Droughtiness	2		
					10YR4/2				HZCL - Sil						one types listed above)					1				
					7.5YR4/2				HZCL - Sil	1					one types listed above)					1				
		65	100	35	10YR5/3			Yes	C - Clay	1	GS	- Gravel w	ιτη porous stones (mai	inly soft sto	one types listed above)	ivioderate	SC - Slig No	No		1				
							1											1						
							1											1						
TQ 66931 70923 566932 170923 71	≤7	0	30	30	10YR4/2			No	MZCL - Si	4 0	0 HR	- All hard i	rocks or stones (i.e. the	ose which o	cannot be scratched wit	h Not Applic	NON - NO	No 34	6 2	WCI 1	Droughtiness	2		
			50	20	10YR5/3			No	MZCL - Si	2 0	0 HR	- All F 4	0 0 CH	I - Chalk or	chalk stones	Moderate	SC - Slig No	No				[=		
		50	120	70	10YR6/4				MZCL - Si		0 HR	- All F 30	0 0 CH		chalk stones		SC - Slig No			1				

| Grid ref. | | | | 1 1 | Denth (| (cm) | Mat | triv | Oc | chreous Mottles | Grey Mottles | | |
 | Sto | nes - ty | ne 1 | | St
 | ones - ty | ne 2 | | Ped |
 | CLIBS C | | - 1 | - 1 | - 1
 | Drought | | Wet | |
 | Final A | 10 | | |
 | Client | |
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	Alt (m)	Slope °	Aspect
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 | > 2000 | 1.60 | n ITuni | |
 | Chara | SUBS ST | TR CaCC | 03 M | n C SP
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Fe 7.5YR5/6 S5 120 65 10VR6/3 CF - Ct 7.5YR5/8 Q. 67031 71023 567032 171023 71 ≤7 0 38 38 10VR3/2 38 50 12 10VR6/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 Q. 67131 71123 567132 171123 71 ≤7 0 30 30 10VR3/2 | GR X Y Art (m) Slope Aspect Lano use Top Bitm Thick Munsell colour Form Form | GR X Y Art (m) Slope Aspect Lano use Top Bitm Thick Munsell colour Form Munsell colour Form Munsell colour Gley Q. 67131 71022 567132 171023 71 \$7 0 32 32 10YR8/3 FF - Fe 7.5YR5/6 Yes Yes Q. 67031 71023 567032 171023 71 \$7 0 38 38 10YR3/2 Solution Solution | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Form Munsell colour Form Form Munsell colour Form Form Form Form Munsell colour Form Form | GR X Y Alt (m) Slope Aspect Land use Top Bittm Thick Munsell colour Form Form Munsell colour Form Munsell colour Form Munsell colour Form Form | GR X Y Art (m) Slope Aspect Lanouse Top Bitm Thick Munsell colour Form Form Munsell colour Form Form Munsell colour Form Munsell colour Form Form | GR X Y Art (m) Slope Aspect Land use Top Bittm Thick Munsell colour Form Form Munsell colour Form Form | GR X Y Alt (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Form | GR X Y ART (m) Slope Aspect Lanouse Top Bitm Thick Munsell colour Form Form Munsell colour Form Munsell colour Form Munsell colour Form Munsell colour Form Form Munsell colour Form Munsell colour Form Munsell colour Form Munsell colour Form Form Munsell colour Form Form Form Munsell colour Form Form | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Munsell colour Form Munsell colour Gley Exture % > 2cm > 6cm Type % > 2cm > 2 | GR X Y AIT (M) Slope ASPECT Land use Top Bittm Thick Munsell colour Form Form Form Form Munsell colour Form Form | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Munsell colour Form Munsell colour Form Munsell colour String With With | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Form | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Fo | GR X Y Art (m) Slope Aspect Land use Top Bittm Thick Munsell colour Form Form Munsell colour Form Form Munsell colour Form Munsell colour Form Munsell colour Form Form Form Munsell colour Form Form Munsell colour Form Form Munsell colour Form For | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Form Form Munsell colour Form Form Form Form Form Form Form | GR X Y Art (m) Slope Aspect Land use Top Bittm Thick Munsell colour Form Munse | GR X Y Art (m) Slope Aspect Land use Top Bittm Thick Munsell colour Form F | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Munsel | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Munsel | GR X Y Art (m) Slope Aspect Land use Top Bittm Thick Munsell colour Form F | GR X Y Art (m) Slope Aspect Land use Top Bittm Thick Munsell colour Form F | Fig. Fig. | Fig. Fig. | GR X Y Art (m) Slope Aspect Land use Top Bitm Thick Munsell colour Form Fo | Fig. Fig. | GR X Y At (m) Slope* Aspect Lano use Top Bitm Thick Munsell colour Form Munsel | GR X Y Aft (m) Slope Aspect Land use Top Btm Thick Munsell colour Form Munsell | Factor Factor Factor Factor Factor Factor Factor Factor Factor Munsell colour Factor Factor | GR X Y Art (m) Gope Aspect Land use Top Bittm Thick Munsell colour Form Munsel |

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy) IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

Stone Type
CH - Chalk or chalk stones
FSST - Soft fine grained sandstones
GH - Gravel with non-porous (hard) stones

OC - Organic clays

OL - Organic loams

OS - Organic sands PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC II

WC III

WCIV

WC V

WC VI

ALC Grades

1 2

2 3a

3b

4

5

Non-Ag

None Gley

N/A

MSST - Soft, medium or coarse grained sandstones
SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones
ZR - Soft, argillaceous or silty rocks or stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

Project Number	Project Name				Parcel
C629	Lower Thames	Crossing			ALCSP3
Date of Survey	Survey Type		Surveyor(s)		mpany
18-20/03/2019			RA/AR/RM	Ask	xew Land and Soil
Weather		Relief		Land use and v	
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ66357034			DA125UD	76	39
1000537034			DA12300		59
MAFF prov		MAFF detailed	I	Flooding	
Grade 1		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
623	1416	115	110	121	1
	•	•		•	<u> </u>
Bedrock			Superficial depo	sits	
Thanet Formation/I	Lewes Nodular/Se	aford/Newhav	None/Head		
Soil association(s) 1	:250 000		Deta	ailed soil information	
Fyfield 4	230,000		None		
	-				
Revision Number			Date Revised		
2			26/03/2019		

nt Grid ref. NGR X Y	m) Slope ° Aspect Land use	Depth (cm)		Ochreous Mottles	Grey Mottles Form Munsell colour	Gley Text	re Stones - t	ype 1	Stones - type 2	Ped Strength Size Shape	SUBS STR	CaCO3 M	n C SPL	Drought	Wet id WC Gw	Final ALC Limitation 1 Limitation 2 Lim		Profile notes
TQ 66358 70349 566359 170350 76	≤7	0 10 10		Form Munsell colour	Form Munsell colour	MCI	Clay loam (medium)	m Type 1%	>2cm >6cm Type	Strength Size Shape			IV.	1BW MBP 0	a WC GW	Limitation 1 Limitation 2 Lim	Non-Ag	Not surveyed- in woodland area
1(00000 /0049 000009 1/0000 /0	21	0 10 10				INICE	Clay loan (medium)							77 -52 A			Non-Ag	Not surveyed- III woodland area
TQ 66631 70222 566632 170223 66	≤7	0 10 10				MCL	Clay loam (medium)						-9	97 -92 4			Non-Ag	Not surveyed
TQ 66631 70323 566632 170323 66	£7	0 30 30 30 38 8 38 100 62				No MZC Yes MSZ No HZCL		HR - All hard r	ocks or stones (i.e. those v	hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit	Moderate	SC - Slig N	o No	4 13 2	WCI 1	Droughtiness	2	
TQ 66656 70421 566657 170421 66	≤7	30 39 9	10YR4/3 10YR4/2			No MCL Yes MZC	- Si 1	HR - All hard r	ocks or stones (i.e. those v	hich cannot be scratched wit	Moderate	SC - Slig N	o No	1 8 2	WCI 1	Droughtiness	2	
TQ 66731 70223 566732 170223 66	≤7	39 70 31 70 100 30 0 28 28	10YR5/4			No HCL	Cla 1	HR - All hard r	ocks or stones (i.e. those v	which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit	Moderate Not Applic	SC - Slig No	No No -1	4 3	a WCI 1	Droughtiness	3a	N/A on PSIP
		28 40 12 40 70 30 70 80 10				No MCL No SCL- Yes SC-5	San 1	HR - All hard r	ocks or stones (i.e. those v	which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit	Moderate	NON - NN	o No					
TQ 66731 70322 566732 170323 69	<i>≤</i> 7	0 30 30 30 38 8 38 70 32 70 80 10	10YR5/6			No MCL No MCL No SCL - Yes SC - S	Cla 1 San 1	HR - All hard r HR - All hard r	ocks or stones (i.e. those v ocks or stones (i.e. those v	which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit which cannot be scratched wit	Moderate Moderate	NON - N N	No No	L 4 3	a WCI 1	Droughtiness	3a	Augered to 80cm stone
TQ 66731 70423 566732 170423 69	≤7	0 30 30 30 38 8 38 65 27				No MZC Yes MZC No MZC	- Si 1	CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Moderate	MC - M N MC - M N VC - Ver N	5	10 5 3	a WCI 1	Droughtiness	За	Chalk present below 65cm. 38-65 cm mzcl with chalk . Impenetrable with auger 65cm +
'Q 66731 70522 566732 170523 66	<i>≤</i> 7	30 80 50	10YR3/3 10YR4/2 10YR4/3			No MZC Yes HZCL No HZCL	- Sil 1	CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Moderate	MC - M(N) MC - M(N) MC - M(N)	o No	8 14 2	WCI 1	Droughtiness	2	
Q 66731 70622 566732 170623 66	£7	0 30 30 30 36 6 36 50 14				No MZC No HZCL No CHK		CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Good	MC - M N MC - M N VC - Ver N	5	83 -28 3	b WCI 1	Droughtiness	3b	
TQ 66831 70722 566832 170723 69	≤7			FF - Fe 10YR5/6 FF - Fe 10YR5/6		Yes HZCL Yes HZCL Yes C - Cl Yes ZC - S	- Sil 1 iy 1	CH - Chalk or CH - Chalk or CH - Chalk or CH - Chalk or	halk stones halk stones		Moderate	MC - M N	No No	5 11 2	WCI 1	Droughtiness	2	Mottling very faint/faint adjoins ALCSP2 boring 2-054 (3a) Assume no SPL at 2-055
'Q 66831 70622 566832 170623 66	<i>≤</i> 7	0 30 30 30 70 40 70 100 30		FF - Fe 10YR5/6		No HCL Yes C - Cl Yes C - Cl	Cla 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CH - Chalk or CH - Chalk or CH - Chalk or	chalk stones		Moderate	SC - Slig No SC - Slig No SC - Slig No	o No	1 8 2	WCI 1	Droughtiness	2	Assume no SPL below 35cm (moderate structure) ?
TQ 66831 70523 566832 170523 66	≤7	0 30 30 30 50 20 50 80 30	10YR4/2 2.5Y4/3 10YR4/3			Yes MCL No MCL No HCL	Cla 1	CH - Chal <1 CH - Chalk or CH - Chalk or	chalk stones	hard rocks or stones (i.e. tho	Moderate	MC - M(N) MC - M(N)	o No	8 3	a WCI 1	Droughtiness	3a	Difficult to auger 80cm+- flint type stone

	Grid ref.		I			Depth	(cm)	Matrix	Ochreous Mottles	Grey Mottles	T., I	_		Stones - type 1		Stones - type 2		ed	T				Drought	T 1	Wet		Final A	ALC			Client
Point	x	Y	Alt (m)	Slope	Aspect Land use			Munsell colou	r Form Munsell colour	Form Munsell colour	Gley	Texture	% >	> 2cm > 6cm Tr	ре	% > 2cm > 6cm Type	Strength	Size Shape	SUBS S	TR CaCO3	Mn C	MB	v MBp G	d WC	Gw	Limitation 1	Limitation 2	Limitation 3	Grade	Profile notes	Ref.
13 TQ 668	831 70422 5668	832 170423	69	≤7		0 35	35	10YR4/2			Yes	MZCL - Si	1	С	I - Chal	lk or chalk stones			Not Ap	plic MC - M	No I	No 10	12 2	WCI	1	Droughtiness			2	65cm- chalky mcl . Difficult to auger	r 2-042
						35 65	30	7.5YR4/3			No	HCL - Cla	1	C	1 - Chal	alk or chalk stones			Modera	ate MC - M	No I	No								85cm chalk	
						65 85	20	10YR6/4			Yes	MCL - Cla	1	C	1 - Chal	lk or chalk stones			Modera	ate MC - M	No I	No									
14 TQ 668	831 70323 5668	832 170323	69	≤7		0 30	30	10YR3/2			1 . 1	MCL - Cla				hard rocks or stones (i.e. those							4 38	wc i	1	Droughtiness			3a	Augered to 80cm stone below	2-032
						30 38	8	2.5YR3/3			1 1	MCL - Cla				hard rocks or stones (i.e. those														80cm	
						38 70	32	10YR5/6				SCL - San				hard rocks or stones (i.e. those															
						70 80	10	10YR5/3			Yes	SC - Sand	1 1	ι н	R - All h	hard rocks or stones (i.e. those	which cannot be	scratched with	th Modera	ate NON - N	No I	No									

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platv MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV WC V

WC VI

ALC Grades

1 2

За

3b

4

5

Non-Ag

None

Gley

Project Name				Parcel
Lower Thames	Crossing			ALCSP4
Survey Type		Surveyor(s)	Com	npany
ALC		RA/AR/RM	Ask	ew Land and Soil
	Relief		l and use and v	egetation
	Level			
			1	
				Area
		DA123HF	54	22.29999924
	MAEE dotailor	d	Elooding	
	None	<u>u</u>	Flood Zone 1	
			!	
AT0	MDw	MDp	FCD	Climate grade
1440	119	115	117	1
		C o uficial done	aiha	
			OSITS	
k Formation		None		
:250,000		Deta	iled soil information	
,				
		Date Revised		
		26/03/2019		
	Survey Type ALC ATO	Survey Type ALC Relief Level MAFF detailed None ATO MDW 1440 119	Lower Thames Crossing Surveyor(s) ALC	Survey Type Surveyor(s) Com ALC RA/AR/RM Ask Relief Land use and v LEY (Ley Grass) Level Postcode Altitude DA123HF 54 MAFF detailed Flooding None Flood Zone 1 ATO MDw MDp FCD 1440 119 115 117 Superficial deposits None Superficial deposits None 250,000 Detailed soil information None

Grid ref. NGR X Y Alt (m)	Slope ° Aspect Lan			Matrix Ochreous Mottle Munsell colour Form Munsell colou		Texture	Stones - type 1 % > 2cm > 6cm Type	Stones - type 2 % > 2cm > 6cm Type	Strength	Ped Shape	SUBS STR	CaCO3	Mn C	SPL MB	Drought w MBn I	Gd WC G	t Limitation 1	Final ALC Limitation 2 Limitation 3 Gra	Profile notes	CI R
TQ 68032 72023 568032 172023 54	≤7			25 10YR4/2			5 HR - Al	It1 CH-C	nalk or chalk s	ones I	Not Applica	MC - M	No	No -11	-9	Ba WCI 1	Droughtiness	3a	Augered to 65cm where IMP,	4-
				13 7.5YR4/4		C - Clay			nalk or chalk s		Moderate			No					assume root to 85cm in >70%	
				22 10YR5/4	No		1 HR - Al		nalk or chalk s	ones	Moderate	MC - M	No	No					chalk. G2 clay TS after calc	
				5 10YR6/4	No No	MSZL - M MSZL - M			nalk or chalk s nalk or chalk s		Moderate Moderate			No No					upgrade, probably also G2	
		05	85 4	20 10YR8/1	INO	IVISZL - IVI	I HK-AI	IT/5 CH-C	laik or chaik s	ones	ivioderate	vc - ve	INO	INO					drought?	
TQ 68132 72023 568132 172023 51	≤7			25 10YR4/2 10 10YR7/3	No No	MZCL - Si MZCL - Si		I 15 CH - C	nalk or chalk s nalk or chalk s		Not Applica Moderate			No -44 No	-38	Bb WCI 1	Droughtiness	3b	Augered to 35cm where IMP, assume root to 55cm in >70%	4
				20 10YR8/1	No.	MZCL - Si			nalk or chalk s		Moderate			No					chalk.	
TQ 68132 72123 568132 172123 46	≤7			25 10YR4/2	No	MZCL - Si			nalk or chalk s						-27	3b WCI 1	Droughtiness	3b	Augered to 40cm where IMP,	4
				10 10YR4/4 5 10YR6/4	No No	MZCL - Si MSZL - M			nalk or chalk s nalk or chalk s		Moderate Moderate			No No					assume root to 60cm in >70% chalk.	
				20 10YR8/1	No.	MSZL - M			nalk or chalk s		Moderate			No					Cildik.	
TQ 68232 72023 568232 172023 51	≤7			27 10YR4/2		MZCL - Si			nalk or chalk s						-7	3a WCI 1	Droughtiness	3a	Augered to 55cm where IMP,	-
				23 10YR4/4	No				nalk or chalk s		Moderate			No					assume root to 75cm in >70%	
		50	55 5	5 10YR7/2 20 10YR8/1	No No	MZCL - Si MZCL - Si			nalk or chalk s nalk or chalk s	ones	Moderate Moderate	VC - Ve	I No	No No					chalk.	
		33	/5 4	:U 101R6/1	INO	IVIZCE - 31	1 HK-AI	II/3 CH-C	Idik Oi Cildik S	ones	iviouei ate	vc - ve	IIIVO	NO						
TQ 68232 72123 568232 172123 46	≤7	0	27 :	27 10YR4/2	No	HZCL - Sil	6 HR - AI	It 2 CH - C	nalk or chalk s	ones	Not Applica	VC - Ve	n No	No -7	-1	Ba WCI 1	Droughtiness	3a	Augered to 62cm where IMP,	—
		27	38 1	11 10YR4/5	No	HZCL - Sil	1 HR - Al	1 t 2 CH - C	nalk or chalk s	ones	Moderate	VC - Ve	n No	No				50	assume root to 80cm in >70%	
		38	58 2	20 10YR6/4	No	MSZL - M	1 HR - Al		nalk or chalk s		Moderate			No					chalk.	
				10YR8/1	No				nalk or chalk s		Moderate			No						
		62	80 1	L8 10YR8/1	No	MSZL - M	1 HR - Al	IT/S CH-C	nalk or chalk s	ones	Moderate	vc - ve	I NO	No						
Q 68232 72223 568232 172223 46	≤7			26 10YR4/2 1 10YR4/5	No No		12 8 4 HR - Al ty clay loam (medium)	hard rocks or stones (i.e. those	which cannot nalk or chalk s		Not Applica Moderate			No -31 No	-21	3b WCI 1	Droughtiness	3b	Augered to 45cm where IMP, assume root to 65cm in >70%	ľ
				101K4/5 15 10YR6/3	No.		edium sandy silt loam		nalk or chalk s		Moderate			No					chalk.	
				20 10YR8/1			edium sandy silt loam		nalk or chalk s		Moderate			No					Crian.	
TQ 68332 72023 568332 172023 46	≤7			25 10YR4/2		MZCL - Si			nalk or chalk s					No -9	-4	3a WCI 1	Droughtiness	3a	Augered to 60cm where IMP,	4
				13 10YR4/4 17 7.5YR4/4	No				nalk or chalk s		Moderate			No					assume root to 80cm in >70%	
				1/ /.5YR4/4 5 10YR7/3	No No	MZCL - Si MSZL - M			nalk or chalk s nalk or chalk s		Moderate Moderate			No No					chalk.	
		60	80 2	20 10YR8/1	No	MSZL - M	1 HR - Al		nalk or chalk s	ones	Moderate	VC - Ve	No No	No						
TQ 68332 72123 568332 172123 43	≤7	0	30 3	30 10YR4/2	No	MZCL - Si	6 4 2 HR-AI	1	nalk or chalk s	ones	Not Applica	VC - Ve	n No	No -8	-2 3	Ba WCI 1	Droughtiness	3a	Augered to 60cm where IMP,	-
	=-			25 10YR4/3		MZCL - Si			nalk or chalk s		Moderate								assume root to 80cm in >70%	
				5 10YR6/3	No	MSZL - M			nalk or chalk s		Moderate			No					chalk.	
		60	80 2	20 10YR8/1	No	MSZL - M	1 HR - Al	1 75 CH - C	nalk or chalk s	ones	Moderate	VC - Ve	n No	No						
TQ 68332 72223 568332 172223 43	≤7			30 10YR4/2 LO 10YR7/3			12 8 4 HR - Al edium sandy silt loam		nalk or chalk s		Not Applica Moderate				-29	3b WCI 1	Droughtiness	3b	Augered to 40cm where IMP, assume root to 60cm in >70%	
				20 10YR8/1	No.		edium sandy silt loam		nalk or chalk s		Moderate			No					chalk.	
		"					,													
TQ 68432 72023 568432 172023 33	≤7			25 10YR4/2 LO 10YR5/4	No No	MZCL - Si			nalk or chalk s					No -16 No	-8	3a WCI 1	Droughtiness	3a	Augered to 55cm where IMP,	
				10 10YR5/4 15 10YR6/4	No No		ty clay loam (medium) ty clay loam (medium)		nalk or chalk s nalk or chalk s		Moderate Moderate			No No					assume root to 75cm in >70% chalk.	
		50	55 5	5 10YR6/3	No		ty clay loam (medium)		nalk or chalk s		Moderate			No					Cirdin.	
		55	75 2	20 10YR8/1	No		ty clay loam (medium)		nalk or chalk s		Moderate			No						
Q 68432 72123 568432 172123 36	≤7			25 10YR4/2		MZCL - Si			nalk or chalk s	ones I	Not Applica	VC - Ve	n No	No -49	-45	3b WCI 1	Droughtiness	3b	Augered to 30cm where IMP,	=
				5 10YR8/1	No		edium sandy silt loam		nalk or chalk s	ones	Moderate	VC - Ve	r No	No					assume root to 50cm in >70%	
		30	50 2	20 10YR8/1	No	MSZL - M	edium sandy silt loam	75 CH - C	nalk or chalk s	ones	Moderate	VC - Ve	n No	No					chalk.	
TQ 68532 72023 568532 172023 33	≤7	0	25 2	25 10YR4/2	No	MZCL - Si	15 10 4 HR - Al	IF2 CH-C	nalk or chalk s						-10	3a WCI 1	Droughtiness	3a	Augered in flinty chalky soil to 7	70cm
		25	60 3	35 7.5YR4/4	No	HZCL - Sil	15 HR - Al	l hard rocks or stones (i.e. CH - C	nalk or chalk s	ones	Moderate	SC - Slig	No	No						
				10 10YR7/2	No	MZCL - Si	15 HR - Al		nalk or chalk s	ones	Moderate	VC - Ve	r No	No						
				20 10YR8/1		MZCL - Si	25 HR - AI		nalk or chalk s		Moderate		1							

	Grid ref.				De	pth (cm)) N	Лatrix	Ochreous Mottles	Grey Mottles	5 6.			Stones - type 1		Stones - type 2 Ped	UBS STR CaC			D	rought	Wet	Final ALC			Client
Po	NGR X Y	ait (m)	Slope ° Aspe	ect Land use	Тор	Bttm Ti	hick N	Aunsell colour	Form Munsell colour	Form Munsell col	lour	Y Textu	ure %	6 > 2cm > 6cm T	ype	% >2cm >6cm Type Strength Size Shape	OBS STR Cac	LO3 MI	n C SPL	MBw	MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile notes	Ref.
13	TQ 68532 72123 568532 172123 3	36	\$7		20 60	20 20 60 40 90 30 110 20	0 1	OYR4/2 OYR4/4 OYR7/2 OYR8/1			No No No	MZCI	L - Silty L - Med	i y clay loam (medium) dium sandy silt loam dium sandy silt loam	R - All h	5 CH - Chalk or chalk stones N 15 CH - Chalk or chalk stones N	lot Applic MC Moderate VC Moderate VC Moderate VC	- Ver No	No No	23	2 2	WCI 1	Droughtiness		Augered to 90cm where IMP, assume root to 110cm in >70% chalk.	4-012
14	TQ 68632 72023 568632 172023 3	30	≤7			28 28 120 93		OYR4/2 OYR4/4			No No		L - Si 5			All hard rocks or stones (i.e. those which cannot be scratched with N All hard rocks or stones (i.e. those which cannot be scratched with N				34	4 2	WCI 1	Droughtiness		Augered to 100cm, assume same to 120cm. In bottom of dry N-S shallow valley feature	4-002
15	TQ 68732 72023 568732 172023 3	36	≤7		28 38	28 28 38 10 45 7 60 19	0 1	.0YR4/2 .0YR4/4 .0YR7/3 .0YR8/1			No No No	MZCI	L - Silty L - Silty	i y clay loam (medium) y clay loam (medium) y clay loam (medium)	R - All h	10 CH - Chalk or chalk stones N 100 CH - Chalk or chalk stones N	Not Applic MC Moderate VC Moderate VC Moderate VC	- Ver No	No No	-34	-27 3b	WCI 1	Droughtiness		Augered to 45cm where IMP in solid chalk, assume root to 60cm in 100% chalk.	4-001

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy) HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platv MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV

WC V WC VI

ALC Grades

1 2

3a

3b

4

5

Non-Ag

None Gley

Project Number	Project Name				Parcel
C629	Lower Thames	Crossing			ALCSP5
Date of Survey	Survey Type		Surveyor(s)		npany
18-20/03/2019	ALC		AR/RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	regetation
Dry, Sunny		Level		LEY (Ley Grass)	_
			T	Tana a	1.
Grid Reference			Postcode	Altitude	Area
TQ67637222			DA124LG	51	28.8
MAFF prov		MAFF detaile	d	Flooding	
Grade 2/3		None		Flood Zone 1	
AAR	АТО	MDw	MDn	FCD	Climate grade
610	1443	119	MDp 115	116	1
_010	11443	1113	ļ113	[110	+
Bedrock			Superficial depo	osits	
Lewes Nodular Cha	lk Formation		None/Head		_
Soil association (s) 1	1.250,000		Dota	ailed soil information	
Soil association(s) 1	1.250,000				
Coombe 1			Non	e	
Revision Number			Date Revised		
2			26/03/2019		

TQ 67631 72222 5676 TQ 67632 72322 5676	632 172223 51	≤7		30 10YR4/2	No	MZCL - Si 10 6			% >2cm >6cm Type		1		T	, ,	WCI 1	Final ALC Limitation 1 Limitation 2 Limitation Droughtiness		0 4 1: 00 1 11:00	
2 TQ 67632 72322 5676				18 10YR4/4	No	MZCL - Silty clay	y loam (medium)	HK - All r	5 CH - C	nalk or chalk stones nalk or chalk stones	Moderate	MC - M N	o No	-1	WCI 1	Drougntiness		2 Augered to 80cm where IMP, assume root to 100cm in >70%	4-028
2 TQ 67632 72322 5676				27 10YR6/4 5 10YR6/4			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N						chalk.	
2 TQ 67632 72322 5676			80 100	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)			nalk or chalk stones	Moderate	VC - Ver N	o No						
	632 172323 39	<7	0 30	30 10YR4/2	No	MZCI - Si 8	5 3	HR - All h	5 CH-C	nalk or chalk stones	Not Applic	VC - Ver N	o No -	36 -28	Bb WCI 1	Droughtiness	3h	Augered to 40cm where IMP,	4-035
			30 40	10 10YR7/3	No	MZCL - Silty clay	y loam (medium)		70 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No					assume root to 60cm in >70%	
			40 60	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	vc - ver N	o No					chalk.	
3 TQ 67731 72023 5677	732 172023 59	≤7		35 10YR4/2 45 10YR4/4		MZCL - Si 6 4 C - Clay 1	4 2	HR - All h	l nard rocks or stones (i.e. those nard rocks or stones (i.e. those	which cannot be scratched with which cannot be scratched with which cannot be scratched with the scratched w	th Not Applic	NON - NN	o No 3	31 3	WCI 1	Droughtiness	2	Augered to 100cm, assume same t	to 4-011
				40 10YR4/4		HZCL - Sil 1			nard rocks or stones (i.e. those									125611	
4 TQ 67731 72122 5677	732 172123 51	≤7	0 30	30 10YR4/2	No	MZCL - Si 8 4	4 0	HR - All h	nard rocks or stones (i.e. CH - C	nalk or chalk stones	Not Applic	VSC - Ve N	o No -	13 -8	Ba WCI 1	Droughtiness	3a	Augered to 60cm where IMP.	4-020
				8 10YR4/4 22 10YR5/4		HZCL - SII 5	y loam (medium)	HR - All h	nard rocks or stones (i.e. those	which cannot be scratched wi nalk or chalk stones	th Moderate	MC - M N VC - Ver N	o No					assume root to 80cm in >70% chalk.	
İ				20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones		VC - Ver N						cnaik.	
5 TQ 67731 72223 5677	732 172223 51	≤7		28 10YR4/2		MZCL - Si 6		HR - All h	nard rocks or stones (i.e. CH - C		Not Applic	MC - M N	o No 1	13 6	WCI 1	Droughtiness	2	Augered to 80cm where IMP,	4-02
				27 10YR4/4 20 10YR4/5			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate	MC - M N	o No					assume root to 100cm in >70% chalk.	
			75 80	5 10YR6/4 20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N							
			50 100	20 10110/1		IVIZEE - Silty ciay	y loani (medidiri)		73	lak of chair stories	Wioderate	vc - vei iv	0 110						
6 TQ 67731 72323 5677	732 172323 37	≤7		34 10YR4/2				HR - All h		nalk or chalk stones				10 -4	Ba WCI 1	Droughtiness	3a	Augered to 60cm where IMP,	4-03
			34 55 55 60	21 10YR6/4 5 10YR6/4			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate Moderate	VC - Ver N VC - Ver N	o No o No					assume root to 80cm in >70% chalk.	
			60 80	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
7 TO 67831 72022 5678																			_
7 TQ 67831 72022 5678	832 172023 59	≤7		30 10YR4/2 20 10YR5/4	No No	MZCL - Si 15 1 MZCL - Silty clay	11 6 y loam (medium)	HR - All r	nard rocks or stones (i.e. those 30 CH - C	which cannot be scratched wi nalk or chalk stones	Moderate	VC - Ver N	o No - o No	4 -9	Ba WCI 1	Droughtiness	3a	Augered to 75cm where IMP, assume root to 95cm in >70%	4-010
			50 75	25 10YR6/4 20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate	VC - Ver N VC - Ver N	o No					chalk.	
			/5 55	20 10110/1	140	IVIZEE - SILLY CIA	y ioani (mediani)		73	lak of chair stories	Wioderate	vc - vei iv	o INO						
8 TQ 67831 72123 5678	832 172123 48	≤7	0 30	30 10YR4/2	No	MZCL - Si 12	9 6	HR - All h	5 CH - C	nalk or chalk stones	Not Applic	NON - NN	o No 1	13 -3	WCI 1	Droughtiness	2	Augered to 90cm where IMP,	4-019
				25 10YR4/4 30 10YR5/4	No	C - Clay 5			nard rocks or stones (i.e. those	which cannot be scratched wi nalk or chalk stones	th Moderate		o No					assume root to 110cm in >70% chalk.	
			85 90	5 10YR6/4	No	MZCL - Silty clay	y loam (medium)		50 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No					Clidik.	
			90 110	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
9 TQ 67831 72223 5678	832 172223 48	≤7		28 10YR4/3			3 0			nalk or chalk stones				35 -27	Bb WCI 1	Droughtiness	3b	Augered to 40cm where IMP,	4-026
				10 10YR6/4 2 10YR6/3			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones	Moderate Moderate	VC - Ver N VC - Ver N	o No o No					assume root to 60cm in >70% chalk.	
			40 60	20 10YR8/1	No	MZCL - Silty clay	y loam (medium)		75 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
10 TQ 67831 72322 5678	832 172323 38	≤7		30 10YR4/2 10 10YR6/3		MZCL - Silty clay	2 0 y loam (medium)	HR - All h		nalk or chalk stones nalk or chalk stones	Moderate	VC - Ver N	o No	28 -18	Bb WCI 1	Droughtiness	3b	Augered to 45cm where IMP, assume root to 65cm in >70%	4-03
				5 10YR6/4 20 10YR8/1			y loam (medium) y loam (medium)			nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N						chalk.	
			13 03	10110/1		lvizez sity cia	y iodiii (iiicaidiii)		,,,	lanco chair stones	Moderate	10 10							
11 TQ 67831 72423 5678	832 172423 38	≤7	0 28	28 10YR4/2	No	MZCL - Si 4 2	2 0	HR - All h	12 4 0 CH-C	nalk or chalk stones	Not Applic	MC - M N	o No -	48 -44	Bb WCI 1	Droughtiness	3b		4-040
			28 47	19 2.5Y_/2	No	MZCL - Si 0 (0 0	HR - All h	70 0 0 CH - C	nalk or chalk stones	Moderate	VC - Ver N	o No						
12 TQ 67931 72023 5679	932 172023 56	≤7	0 35	35 10YR4/2	No	MZCL - Si 12	9 4	HR - All F	nard rocks or stones (i.e. those	which cannot be scratched wi	th Not Applic	NON - NN	o No c	9 -4	2 WCI 1	Droughtiness	2	Augered to 90cm where IMP,	4-009
			35 65	30 7.5YR4/4	No	C - Clay 5		HR - All h	ard rocks or stones (i.e. those	which cannot be scratched wi	th Moderate	NON - NN	o No		1		Ī	assume root to 110cm in >70%	
				25 10YR5/4 20 10YR8/1		MZCL - Si 10 MZCL - Si 10		HR - All I		nalk or chalk stones nalk or chalk stones		VC - Ver N VC - Ver N						chalk and flint	

Grid ref.	Alt (m) Slop	e Aspect La	nd use				Chreous Mottles		Glev	Texture		tones - typi	e 1	Ston	es - type 2	P	d	SUBS STR CaCo	3 Mn C		Drought	Wet	Final ALC		Profile notes	Clien
NGR X Y	Air (III) Slot	e Aspect La	To	p Bttm	Thick	Munsell colour Form	m Munsell colour	Form Munsell colour	Gley	rexture	% > 2ci	n > 6cm	Type	% > 2cm	> 6cm Type	Strength S	ze Shap	e SOBS STR Caco	JS IWIII C	MB	w MBp Go	WC Gw	Limitation 1 Limitation 2 Limitation	3 Grade	Profile flotes	Ref.
TQ 67931 72122 567932 172123	48 ≤7		0			10YR4/3					12 8	4	HR - All I	hard rocks or s	tones (i.e. those	vhich cannot be	cratched w	ith Not Applic NON	I - N No	No 31	0 2	WCI 1	Droughtiness	2	Augered to 100, assume same to	4-01
			30	80 120	50 40	10YR4/5 10YR5/5			No No	MZCL - Si	5 Ity clay loa	m (medium	HR - All I	hard rocks or s	tones (i.e. CH - Cl	alk or chalk stor		Moderate NON Moderate VC -		No No					120cm. G2 TS stone, estimated from surface and auger.	
			00	120	40	1011(3) 3				IVIZCE - J	l ciay ioc	iii (iiieaiaii	',	123	CII-CI	laik of criaik stor	c3	Ivioderate vc -	VEILING	140					nom surface and auger.	
TQ 67931 72222 567932 172223	48 ≤7		0			10YR4/2				MZCL - S		0	HR - All I			alk or chalk stor		Not Applic SC -			2 2	WCI 1	Droughtiness	2	Augered to 80cm where IMP,	4-02
			28			10YR4/4 10YR5/4				MZCL - Si MSZL - N			HR - All I			alk or chalk stor		Moderate MC - Moderate VC -		No No					assume root to 100cm in >70% chalk.	
				80	5	10YR6/4			No	MSZL - N	5		HR - All I	40	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No						
			80	100	20	10YR8/1			No	MSZL - N	ledium san	dy silt loam	1	75	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No						
TQ 67931 72323 567932 172323	38 ≤7		0			10YR4/2 10YR6/3					8 4	0 dy silt loam	HR - All I	15		alk or chalk stor		Not Applic VC - Moderate VC -			-29 3b	WCI 1	Droughtiness	3b	Augered to 42cm where IMP, assume root to 60cm in >70%	4-03
						10YR6/4						dy silt loam		70		alk or chalk stor		Moderate VC -							chalk.	
			42	60	18	10YR8/1			No	MSZL - N	edium san	dy silt loam	ı	75	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No						
TQ 67931 72422 567932 172423	38 ≤7					10YR4/2 2.5Y_/2				MZCL - Si MZCL - Si	4 2	0	HR - All I			alk or chalk stor		Not Applic MC - Moderate VC -		No -48 No	-44 3b	WCI 1	Droughtiness	3b	Chalk at 28cm	4-039
			20		13	2.3.32				IVILUE 3		Ü		,,,,	0 011 01	lank or criticik stor		inoderate re	70,110	140						
														L		1										
TQ 68031 72122 568032 172123	46 ≤7		28			10YR4/2 10YR4/4					15 11 tv clav loa	6 m (heavy)	HR - All I	hard rocks or s	tones (i.e. those CH - Cl	vhich cannot be alk or chalk stor	cratched wi	rith Not Applic SC - Moderate MC	Slig No M No	No -9 No	-7 3a	WCI 1	Droughtiness	3a	Augered to 65cm where IMP, assume root to 85cm in >70%	4-01
			48	65	17	10YR6/4			No	MZCL - Si	Ity clay loa	m (medium		50	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No					chalk. 3a TS stone - estimate from	
			65	85	20	10YR8/1			No	MZCL - Si	Ity clay loa	m (mediun	n)	75	CH - CI	alk or chalk stor	es	Moderate VC -	Ver No	No					surface and auger, = on Drought?	?
TQ 68031 72223 568032 172223	46 67			25	25	40/04/2			N1-	MZCL - Si	10 0	4	HR - All I	-	CII. CI	alk or chalk stor		Not Applic MC	24 21-	N - 20	0 2	14/61 4	Droughtiness	-	Augered to 60cm where IMP ON	4-02
TQ 08031 /2223 508032 1/2223	46 5/		35			10YR4/3 10YR4/4			No	MZCL - Si	5	4	HR - All I			alk or chalk stor		Moderate SC -	Slig No	No 29	0 2	WC1 1	Droughtiness	2	FLINT. Assume continues similar to	
			60	120	60	10YR5/5				MZCL - S			HR - All I	15	CH - CI	alk or chalk stor	es	Moderate SC -		No					depth, as per adjacent AB up same	ne
																									valley feature (4-018).	
TQ 68031 72322 568032 172323	46 67			25	25	10YR4/2			N	147CL C	8 5	2	LID All I			delah asasah ba		rith Not Applic MC	N4 NI=	N- 20	F 2	WC1 4	Droughtiness	-	Augered to 100cm, assume same t	4.03
TQ 08031 72322 508032 172323	46 5/		35	120	85	10YR4/2 10YR4/4				MZCL - Si		2	HR - All I			alk or chalk stor		Moderate VC -		No 36	5 2	WC1 1	Droughtiness	2	120cm	10 4-03
TO 68031 72423 568032 172423	34 ≤7		0	27	27	10YR4/2			No	MZCL - Si	4 2	0	HR - All I	12 4	0 CH - CI	alk or chalk stor	es	Not Applic MC	MiNo	No -48	-44 3b	WCI 1	Droughtiness	3b	Chalk at 27cm	4-03
						2.5Y_/2				MZCL - S		0	HR - All I	70 0	0 CH - CI	alk or chalk stor	es	Moderate VC -		No						
TQ 68131 72222 568132 172223	46 ≤7		0			10YR4/2					15 11	6	HR - All I	hard rocks or s	tones (i.e. those	vhich cannot be	cratched w	rith Not Applic MC	M No	No -33	-23 3b	WCI 1	Droughtiness	3b	Augered to 45cm where IMP,	4-02
						10YR4/4 10YR7/3				MZCL - Si			HR - All I	5 70		alk or chalk stor		Moderate VC -		No No					assume root to 65cm in >70%	
						10YR7/3 10YR8/1						m (medium m (medium		75		alk or chalk stor alk or chalk stor		Moderate VC - Moderate VC -		No No					chalk.	
						,							•													
TQ 68131 72323 568132 172323	46 ≤7		0			10YR4/2					16 10		HR - All I			alk or chalk stor		Not Applic VC -			-15 3b	WCI 1	Droughtiness	3b	Augered to 50cm where IMP,	4-03
			35	40	5	10YR5/4 10YR6/4						m (mediun m (mediun		15 50		alk or chalk stor alk or chalk stor		Moderate VC - Moderate VC -	Ver No	No					assume root to 70cm in >70% chalk.	
			50	70	20	10YR8/1						m (mediun		75		alk or chalk stor		Moderate VC -		No					Cildik.	
								1	L							1			\perp				<u> </u>			
TQ 68131 72423 568132 172423	33 ≤7					10YR4/2				MZCL - Si		0	HR - All I			alk or chalk stor		Not Applic MC		No -41	-36 3b	WCI 1	Droughtiness	3b	Chalk at 32cm	4-03
			32	52	20	2.5Y_/2			No	MZCL - Si	0	0	HR - All I	70 0	υ CH - Cl	alk or chalk stor	es	Moderate VC -	verNo	NO						
			- 1					1	1		1					1										
TQ 68231 72323 568232 172323	46 ≤7		0			10YR4/2 10YR4/4				MZCL - Si MZCL - Si		3	HR - All I			alk or chalk stor		Not Applic VC - Moderate VC -	Ver No	No -18	-13 3a	WCI 1	Droughtiness	3a	Augered to 60cm where IMP, assume root to 80cm in >70%	4-029

	Depth (cm) Matrix p Bttm Thick Munsell colour 80 20 10YR8/1	Ochreous Mottles Grey Mottles Form Munsell colour Form Munsell colour	Gley Texture No MZCL - Si	Stones - type 1 % > 2cm > 6cm Type ility clay loam (medium)	Stones - type 2 Ped	Shape Moderate VC - Ver No No	MBw MBp Gd WC Gw	Final ALC Limitation 1 Limitation 2 Limitation 3 Grade	Profile notes Client Ref.
25 TQ 68031 72523 568032 172523 34 ≤7 0 28 70	28 28 10YR4/3 70 42 10YR5/4 90 20 2.5Y_/1		No MZCL - Si No ZL - Silt Ic No ZL - Silt Ic	4 2 0 HR-AI	All t 12 5 0 CH - Chalk or chalk stones All t 12 5 0 CH - Chalk or chalk stones All t 90 0 CH - Chalk or chalk stones	Not Applic, SC - Slig, No No Moderate MC - M No No Moderate MC - Vel No No No Moderate MC - Vel No No No No No No No No No No No No No	0	Droughtiness 2	Chalk at 70cm 6-003

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy) HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platv MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV

WC V

WC VI

ALC Grades

1 2

3a 3b

4

5

Non-Ag

None Gley

Project Number	Project Name				Parcel
C629	Lower Thames	Crossing			ALCSP6
Date of Survey	Survey Type		Surveyor(s)		npany
18-20/03/2019	ALC		RA/AR/RM	Ask	ew Land and Soil
Weather		Relief		Land use and ve	egetation
Dry, Sunny		Level		LEY (Ley Grass)	5600000
					1
Grid Reference			Postcode	Altitude	Area
TQ67437252			DA124TB	45	19.39999962
MAFF prov		MAFF detailed	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
605	1450	120	116	115	1
Bedrock			Superficial depo	sits	
Lewes Nodular Cha	lk Formation		None/Head		
Soil association(s) 1	L:250,000		Deta	niled soil information	
Coombe 1			None	e	
Revision Number			Date Revised		
2			26/03/2019		

Grid ref. R X Y	m) Slope ° Asp	ect Land use		n (cm)	Matrix Ochreous Mottles Munsell colour Form Munsell colou		y Tex	cture Stones - type	Tyne	Stones - type	2 Type	Ped Strength Size Shape	SUBS STR	CaCO3	Mn C	SPL MRw	MBn G	d WC G	Final ALC V Limitation 1 Limitation 2 Limit	ation 3 Grade	Profile notes
67432 72523 567432 172523 45	≤7	- 1			10YR4/2		MS	SZL - M 2	CH - Cha	1	HR - All h	ard rocks or stones (i.e. thos	Not Applic	MC - M	No I	No -9	9 3	WCI 1	Droughtiness	3a	
					10YR4/2	Yes	s M2	CL - Si 1			e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					
		6	65 70	5	7.5YR4/4	No	HC	L - Clar 1	HR - All I	hard rocks or stones (i.	e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					
67445 72424 567445 172424 45	≤7				10YR4/3			'CL - Si 2	CH - Cha			ard rocks or stones (i.e. thos				No 5	9 38	WCI 1	Droughtiness	3a	Chalk present at 70cm depth
					10YR5/4			CL - Si 1 CL - Si 1				nich cannot be scratched with				No					
					10YR6/4 10YR8/1			K - Chi 70		nard rocks or stones (i. ilk or chalk stones	e. tnose wr	nich cannot be scratched with	Moderate			No No					
		l'	70 30	20	10110/1	les	, [K - CHE 70	CII - CIIe	lik of chair stories			Wioderate	VC - VEI		40					
							\perp														
67532 72323 567532 172323 45	≤7	[9	0 40	40	10YR4/3 10YR8/1	No	MZ	'CL - Si 3 K - Cha 70	CH - Cha	1 ilk or chalk stones	HR - All h	ard rocks or stones (i.e. thos	Moderate	MC - M	No I	No -44 No	-40 3l	WCI 1	Droughtiness	3b	chalk present below 40cm; impenetrable with auger 42cm +
		ľ	+0 42	2	10180/1	ies	,	K - CIR 70	CH - CH	lik of Chaik Stories			iviouerate	vc - vei	INO I	NO					impenetrable with auger 42cm +
67532 72423 567532 172423 39	<7		38	38	10YR4/3	No.	M2	CL - Si 2	CH - Cha	1	HR - All h	ard rocks or stones (i.e. thos	F Not Applic	MC - Mi	No I	Vn -27	-20 31	b WCI 1	Droughtiness	3h	difficult to auger 43 cm :
					10YR4/4			CL - Si 1	HR - All I	n – hard rocks or stones (i.	e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					impenetrable with auger
		4	42 62	20	10YR8/1	Yes	СН	K - Cha 70	CH - Cha	lk or chalk stones			Moderate	VC - Ver	No I	No					
67532 72523 567532 172523 39	≤7				10YR4/3			CL - Si 2	CH - Cha		HR - All h	ard rocks or stones (i.e. thos				No -38	-33 3t	WCI 1	Droughtiness	3b	chalk at 35cm difficult to auger
			35 55	20	10YR8/1	Yes	CH	K - Cha 70	CH - Cha	ilk or chalk stones			Moderate	VC - Ver	No I	No					
7522 72722 567522 472726				20	40/02/2			71 144 4	UD 10	Land and an in the		deb account to the second	h New Y		N-	u- c	22 -	14/6:	Danish dia ana		nim in .
7532 72723 567532 172723 28	S /				10YR3/3 7.5YR3/3			SZL - M 1 1 ZL - Fin 1	HR - All I	nard rocks or stones (i.	those wh	nich cannot be scratched with nich cannot be scratched with	n Not Applic	SC - Slig	No I	NO 6	22 2	WCI 1	Droughtiness	2	Difficult to auger 70cm+ Stone?
		-	10	31	,	INO INO			rin - All I	II.	criose Wi	nen cannot be scrattiled With	viouerate	JC - 3lig	1'''	•••					
67632 72423 567632 172423 39	≤7		0 40	40	10YR4/2		M7	CL - Si 3 3	CH - Cha	1 1	HR - All F	ard rocks or stones (i.e. thos	Not Applic	VC - Ver	No I	No -30	-24 31	WCI 1	Droughtiness	3b	chalk present at 40cm :
					10YR8/1			K - Cha 70		lk or chalk stones	/ 1111		Moderate			No				30	impenetrable with auger assume
																					rootable
57632 72523 567632 172523 39	≤7	-			10YR4/2			CL - Si 1 1		1 1	HR - All h	ard rocks or stones (i.e. thos	Not Applic	MC - M	No I	No -20	-10 3t	b WC I	Droughtiness	3b	Difficult to auger 60cm stone (no
					10YR4/3			CL - Si 1				nich cannot be scratched with				No					evidence of chalk at 60cm-auger
		-	45 60	15	10YR5/2	Yes	MZ	CL - Si 2	HR - All I	nard rocks or stones (i. I	e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					would not penetrate)
							\perp														
7632 72723 567632 172723 28	≤7				10YR4/2			ZL - M 1 1	HR - All I	hard rocks or stones (i.	those wh	nich cannot be scratched with	h Not Applic	SC - Slig	No I	No -18	-7 38	WCI 1	Droughtiness	3a	Difficult to auger 60cm stone- flin
		-	ss 60	22	7.5YR4/3	No	I _{M2}	CL - Si 1 1	HK - All I	nard rocks or stones (i.	e. those wh	nich cannot be scratched with	nivioderate	SC - Slig	NO I	NO					type
7732 72423 567732 172423 37			n 20	20	10YR4/2	V		CL - Cla 1 1	CH Ch-	1 1	LID. AU-L	and racks or stones (i.e. *b	& Not Appli-	MC NA	No.	No. 24	-15 31	h WC! 1	Droughtiness	3h	Diffiult to auger E9cm + chell-
1132 12423 301/32 1/2423 3/	≥/				10YR5/4			CL - Cla 1 1			nn - All f those wh	ard rocks or stones (i.e. thos nich cannot be scratched with	h Moderate	MC - M	No I	NO -24	-13 31	VVCI 1	Drougnulless	30	Diffiult to auger 58cm + chalk present
					10YR5/4			CL - Si 1 1	HR - All I	hard rocks or stones (i.	e. those wh	nich cannot be scratched with	h Moderate	MC - M	No I	No					
7732 72523 567732 172523 37	≤7				10YR4/2			CL - Si 1		lk or chalk stones			Not Applic	MC - M	No I	No 22	8 2	WCI 1	Droughtiness	2	
					10YR4/4			L - Clar 2		lk or chalk stones			Moderate	MC - M	No I	No					
							\perp														
						1	10.47	CL - Si 10	CH - Cha	44	HD - All F	and racks or stones (i a +	dates Applie	DUC MA	Jan-	No EE	E1 4	IMCI 1	Droughtiness	14	1
7832 72523 567832 172523 38	≤7		27								IIIV - All I	ard rocks or stones (i.e. thos	SE NOT Applic	vc - ver	INO I		-31 4	1	Di Oughtiness	4	
832 72523 567832 172523 38	≤7				10YR8/1			K - Cha 70		ilk or chalk stones	IIIX - AII I	iaru rucks ur scones (i.e. thos	Moderate	VC - Ver	No I	No -55	-51 4	WCI	oroughaness.	4	

Grid ref.	Depth (cm) Matrix Ochreous Mottles	Grey Mottles Stones - type 1	Stones - type 2 Ped	Drought Wet	Final ALC	Clier
int NGR X Y Alt (m) Slope ° Aspect	Top Bttm Thick Munsell colour Form Munsell colour		% > 2cm > 6cm Type Strength Size Shape SUBS STR CaCO3	Mn C SPL MBw MBp Gd WC Gw		Profile notes Ref.
TQ 67932 72523 567932 172523 38 ≤7	0 28 28 10YR4/3 28 35 7 10YR5/4 35 60 25 10YR8/1	No MZCL - Si 8 CH - CH No MZCL - Si 8 CH - CH - CH - CH - CH - CH - CH - CH -		No No	Droughtiness 3b	6-00
TQ 67959 72620 567959 172620 24 ≤7	0 27 27 10YRS/3 27 35 8 10YR8/1 35 55 20 10YR8/1		a, 4 HR - All hard rocks or stones (i.e. those Not Applic MC - M Moderate VC - Ver M	No No	Droughtiness 3b	6-00
TQ 67853 72608 567853 172608 30 ≤7	0 20 20	CHK - Chalk	Not Applicable	No -100 -96 4 WC I Nor	n-Ag Droughtiness 4	Agricultural building 6-00
TQ 67732 72623 567732 172623 27 ≤7	0 35 35 7.5YR4/2 35 45 10 7.5YR4/3 45 65 20 7.5YR5/3	No HZCL - Sil 1 HR - Al	alk or chalk stones And rocks or stones (i.e. those which cannot be scratched with Moderate MC - M. hard rocks or stones (i.e. those which cannot be scratched with Moderate MC - M.		Droughtiness 3a	Augered to 65cm then chalk on auger. Impenetrable to auger.
TQ 67632 72623 567632 172623 28 ≤7	0 38 38 10YR4/2 38 40 2 10YR8/1		a 1	No No -47 -43 3b WC 1 1	Droughtiness 3b	Assume chalk is rootable 6-01
TQ 67432 72623 567432 172623 33 s7	0 40 40 10YR4/2 40 50 10 7.5YR4/2 50 70 20 7.5YR4/3	Yes MZCL - Si 1 HR - Al	hard rocks or stones (i.e. those which cannot be scratched with Not Applic MC - M hard rocks or stones (i.e. those which cannot be scratched with Moderate MC - M hard rocks or stones (i.e. those which cannot be scratched with Moderate MC - M.	No No	Droughtiness 3a	NOTE 2 point labelled 6-011 on map. Augered to 70cm-stone
TQ 67532 72623 567532 172623 28 ≤7	0 30 30 10YR4/2 30 42 12 10YR4/3 42 48 6 10YR8/1	No MZCL - Si 1 CH - Ch	a 1 1 HR - All hard rocks or stones (i.e. those Not Applic MC - Mr. alk or chalk stones alk or chalk stones Moderate MC - M Moderate VC - Ver	No No	Droughtiness 3b	NOTE 2 point labelled 6-011 on map. This point identified as 6-011 a. Augered to 48cm then chalk impenetrable to auger
TQ 67732 72723 567732 172723 27 s7	0 38 38 10YR3/2 38 90 52 10YR4/2		alk or chalk stones Not Applic MC - M. Moderate MC - M. Moderate MC - M.	No No 12 10 2 WCI 1 No No	Droughtiness 2	Augered to 90cm - stone 6-01

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platv

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV WC V

WC VI

ALC Grades

1 2

За

3b

4

5

Non-Ag

None

Gley

Project Number	Project Name				Parcel				
C629	Lower Thame	s Crossing			ALCSP7				
Date of Survey	Survey Type		Surveyor(s)	Cor	npany				
18-20/03/2019			RA/AR/RM	Ask	ew Land and Soil				
Weather		Relief		Land use and v	regetation				
Dry, Sunny		Level		LEY (Ley Grass)	_				
			<u> </u>	T	1.				
Grid Reference			Postcode	Altitude	Area				
TQ67937272			DA124TB	30	12.10000038				
MAFF prov		MAFF detailed	<u> </u>	Flooding					
Grade 3		None		Flood Zone 1	-				
AAR	AT0	MDw	MDp	FCD	Climate grade				
597	1467	122	119	113	1				
Bedrock			C	a cita					
			Superficial depo						
Lewes Nodular Cha	ilk Formation/Tha	net Formation	None/Taplow G	Gravel/Lynch Hill Grave	el Member				
Soil association(s) 1	1:250,000		Deta	ailed soil information					
Coombe 1	-,		Non						
Revision Number			Date Revised						
2			26/03/2019						

t Grid ref.	Alt (m)	Slope ° As	pect Land use	De	pth (cm)	Matrix	Ochreous Mot olour Form Munsell co		Gley	Texture	0/ - ^	Stones - typ	21	0/ 1- 2	Stones - ty	/pe 2	Ped Strength Size Shape	SUBS STR	CaCO3	Mn C SI	PL L	rought	Wet	Final ALC Limitation 1 Limitation 2 Limitatio	- 2 C :	Profile notes	Clie
NGR X Y TQ 67931 72722 567932 1		≤7	CFR			10YR5/3		iour Form Munsell cold	Vec.	MZCL - S	1 0	m > 6cm	I I y pe	% >20 1 0	cm > 6ci	m Type	Strength Size Shape lk or chalk stones	Not Applie	c MC - M	No N	WRW	IMBD IQU	Wet WC Gw	Droughtiness Limitation 2 Limitation	n 3 Grade		3-
100/331/2/22 30/332 1	12723 30	2/	CER	40	50 20	10YR8/1			Yes	CHK - Ch	1 0	0	HR - Al	70	Ü		lik or chalk stones	Moderate				-20 30	wer 1	Drougnaness	30		3
TQ 67931 72823 567932 1	72823 14	≤7	CER	38 5	55 17	10YR4/2 10YR5/6 10YR5/6			No	MZCL - S MZCL - S MZCL - S	1 0		HR - Al	PNO 1 PNO 1 PNO 70		CH - Ch	olk or chalk stones olk or chalk stones olk or chalk stones	Not Appli Moderate Moderate	SC - Slig	No N	lo	-10 3a	WCI 1	Droughtiness	3a	Difficult to auger 55cm+ chalky rubble	6-
TQ 67931 72923 567932 1	72923 14	≤7	CER	38 :	70 32	10YR4/2 7.5YR4/3 5YR4/3				MZCL - S MZCL - S C - Clay	1 0 1 0 1 0	0 0 0	HR - Al	hard rocks	s or stones	(i.e. those w	hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit	th Moderate	c SC - Slig SC - Slig NON - N	No N	lo	6 2	WC II 2	Droughtiness Wetness	2	Red soil at 70cm fig 8 used ALC guidelines	6
TQ 67931 73022 567932 1	73023 6	≤7	CER	38	78 40	10YR4/2 7.5YR4/3 10YR4/4			No	MZCL - S MCL - Cla MZCL - S	1 0	0 0 0	HR - Al	F5 0 F5 0 F70 0	0	CH - Ch	olk or chalk stones olk or chalk stones olk or chalk stones	Not Appli Moderate Moderate	VC - Ve	No N	lo	1 2	WCI 1	Droughtiness	2	At 80cm chalk present impenetrable to auger	6
TQ 67931 73123 567932 1	73123 6	≤7	CER	38	70 32	10YR4/3 10YR4/3 5YR4/4			No	MZCL - S FSZL - Fir C - Clay	1 0		HR - Al	hard rocks	s or stones	(i.e. those w	hich cannot be scratched withich cannot be scratched within the s	th Moderate	C NON - N NON - N	No N	lo	19 2	WC II 2	Droughtiness Wetness	2	SPI assumed in red soil; ALC guidelines fig 8	6-
TQ 68131 72623 568132 1	72623 20	≤7	ОТН	35 4	10 5	10YR4/3 10YR4/3 7.5YR4/3			No	MZCL - S HZCL - Si HZCL - Si	1 0	0 0 0	HR - Al	F 2 0 F 12 0 F 20 0	0 0 0	CH - Ch	alk or chalk stones alk or chalk stones alk or chalk stones	Not Appli Moderate Moderate	VC - Ve	No N	lo	1 2	WCI 1	Droughtiness	2	scrub area	6
TQ 68131 72723 568132 1	72723 20	≤7	CER	35	10 5	10YR4/2 10YR4/3 7.5YR4/2			No	MZCL - S MZCL - S MZCL - S	1 0		HR - Al	F2 0 F10 0 F20 0		CH - Ch	lik or chalk stones lik or chalk stones lik or chalk stones	Not Appli Moderate Moderate	VC - Ve	No Y	es	1 3a	WCI 1	Droughtiness	3a		6
TQ 68031 72723 568032 1	72723 24	≤7	CER	35 4 48 3	18 13 70 22	10YR4/2 10YR4/2 7.5YR4/2 7.5YR4/2			Yes Yes	MZCL - S HZCL - Si MCL - Cla MCL - Cla	1 0	0	HR - Al HR - Al	F5 0 F5 0 F5 0 F70 0	0	CH - Ch CH - Ch	alk or chalk stones alk or chalk stones alk or chalk stones alk or chalk stones	Not Appli Moderate Moderate Moderate	VC - Ver	No N	lo lo	1 3a	WCI 1	Droughtiness	3a	Difficult to auger 70cm + chalky stones present	6
TQ 68131 72822 568132 1	72823 13	≤7	CER	38 8	30 42	7.5YR4/2 7.5YR4/3 7.5YR4/3			No	MSZL - N FSZL - Fir FSZL - Fir	1 0		HR - Al	F2 0 F10 0 F70 0		CH - Ch	alk or chalk stones alk or chalk stones alk or chalk stones	Not Appli Moderate Moderate	VC - Ve	No N	lo	15 1	WCI 1	Droughtiness Wetness	1	Difficult to auger 80cm -chalk	6
TQ 68031 72823 568032 1	72823 15	≤7	CER	35 4 45 5	15 10 55 10	10YR4/2 7.5YR4/4 10YR7/3 10YR8/1			No No	MZCL - S MZCL - S MZCL - S MZCL - S	2	0					lik or chalk stones lik or chalk stones	Not Appli Moderate Moderate Moderate	MC - M	No N	lo lo	-5 3a	WCI 1	Droughtiness	3a	Augered to 55cm where IMP chall assume roots to 75cm in >70% chalk then stop rooting.	lk, 6
TQ 68031 72922 568032 1	72923 15	≤7	CER	30 5 50 7	50 20 70 20 90 20	10YR4/3 7.5YR4/4 7.5YR4/5 7.5YR4/5 10YR7/4			No No No	SCL - San SCL - San MSL - Mc C - Clay MZCL - S	10 10 10	0	HR - AI HR - AI HR - AI	hard rocks	s or stones s or stones s or stones	(i.e. those w	hich cannot be scratched wi hich cannot be scratched wi hich cannot be scratched wi hich cannot be scratched wi	th Moderate th Moderate	NON - NON -	No N No N No N	lo lo lo	-17 3a	WCI 1	Droughtiness	3a	Augered to 100cm, assume continues same to 120cm.	E
TQ 68031 73023 568032 1	73023 5	≤7	CER	30 S	55 25 90 35	10YR4/3 10YR4/4 10YR4/5 7.5YR4/6			No No	SCL - San SCL - San HCL - Cla SCL - San	5 5	0	HR - Al HR - Al	hard rocks	s or stones s or stones	(i.e. those w (i.e. those w	hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit hich cannot be scratched wit	th Moderate th Moderate	NON - NON -	No N	lo lo	-13 3a	WCI 1	Droughtiness	3a	Augered to 100cm, assume continues same to 120cm	6-

Point Grid ref. Alt (m) Slope ° Aspect Land use Depth (cm) Matrix Matrix Top Bitm Thick Munsell colour	Ochreous Mottles Grey Mottles Form Munsell colour Form Munsell colour Form Gley Texture	Stones - type 1 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought Wet Wet Shape Gd WC Gw	Final ALC Limitation 1 Limitation 2 Limitation 3 Grade	Profile notes Client Ref.
13 TQ 68031 73123 568032 173123 5 57 CER 0 30 30 10YR4/2 30 80 50 10YR4/4 80 90 10 10YR4/4 90 120 30 10YR4/4	NO MSL - N NO MSL - N NO MSL - N	10 HR - All hard rocks or stones (i.e. those which cannot be scr. 30 HR - All hard rocks or stones (i.e. those which cannot be scr.	ratched with Moderate NON - N NO NO NO ratched with Moderate NON - N NO NO		Augered to 90cm where IMP due to 6-040 stone, assume continues to 120cm with c. 50% HR

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

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MCL - Clay loam (medium)

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GH - Gravel with non-porous (hard) stones

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SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC II

WC III

WC III

WC V

WC VI

ALC Grades

1

2

3a 3b

4

5

Non-Ag

None

Gley

Project Number	Project Name				Parcel				
C629	C629 LTC ALCS	P8			ALCSP8				
	-								
Date of Survey	Survey Type		Surveyor(s)		Company				
18-20/03/2019	ALC		RA/AR/RM		Askew Land and Soil				
Weather		Relief		l and use a	nd vogatation				
					nd vegetation				
Dry, Sunny		Level		LEY (Ley G	rassj				
Grid Reference			Postcode	Altitude	Area				
TQ68037322			DA122NZ	5	11.69999981				
				•	•				
MAFF prov		MAFF detailed	ł						
Grade 3		None		Flood Zone	1				
AAR	AT0	MDw	MDp	FCD	Climate grade				
580	1495	126	124	110	1				
Bedrock			Superficial depo	osits					
Lewes Nodular Cha	lk Formation		Alluvium						
Soil association(s) 1	:250,000		Det	ailed soil informati	ion				
Wallasea 1/Coomb	e 1		Nor	ne					
Revision Number			Date Revised						
2			26/03/2019						

NGR	Y V			Aspect La								Texture				_	Stones - type 2		——ISORA,	TR CaCO3		PL -				_	Profile notes	Client
TO COORD TO	Α .		Slope °	1,7222	To				Form Munsell colour								6 > 2cm > 6cm Type St		nape			MBw			Limitation 1 Limitation 2 Limitation 3			Ref. 6-04-
TQ 68032 732	223 568032 17	3223 5	≤7		25			2.5Y5/2 2.5Y6/2	MD - N 5YR4/6 MD - N 5YR4/6	MD - N 5Y6/1 MD - N 5Y6/1		ZC - Silty ZC - Silty		0			rd rocks or stones (i.e. those which rd rocks or stones (i.e. those which						28 3a	WCV 4	Wetness	4	Note - surface water/high water- table. Risk of Flooding (Grade 4)	
					60			2.5Y6/1	MD - N 5YR4/6	MD - 1 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which										table. Nisk of Flooding (Grade 4)	
												,		-		1	1											
											\perp																	_
TQ 68032 733	323 568032 17	3323 1	≤7		0			2.5Y5/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which						29 3a	WCV 4	Wetness	4	Note - surface water/high water-	
								2.5Y6/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which				No Y						table. Risk of Flooding (Grade 4)	
					150	5 12	10 62	2.5Y6/1	MD - N 5YR4/6	MD - N 5Y6/1	res 2	ZC - Silty	0 0	U	HK-	All nar	rd rocks or stones (i.e. those which	cannot be scratche	a with Poor	NON - N	No Y	es						
TQ 68032 734	423 568032 17	3423 1	≤7		0			2.5Y4/2	CD - Ci 5YR4/6	CD - C: 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which						29 3a	WC V 4	Wetness	4		6-046
					22			2.5Y6/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which					es						
						5 12	20 65	2.5Y6/1	MD - N 5YR4/6	MD - N 5Y6/1	res 2	ZC - Silty	0 0	0	HK-	All nar	rd rocks or stones (i.e. those which	cannot be scratche	a with Poor	NON - N	INO I	es						
TQ 68032 735	523 568032 17	3523 0	≤7		0			2.5Y5/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which						28 3a	WC V 4	Wetness	4		6-047
					24			2.5Y6/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which			NON - N		es						
					58	8 12	0 62	2.5Y6/1	MD - N 5YR4/6	MD - N 5Y6/1	Yes 2	ZC - Silty	0 0	0	HR -	All har	rd rocks or stones (i.e. those which	cannot be scratche	with Poor	NON - N	No Y	es						
TQ 67932 735	523 567932 17	3523 0	≤7		0	22	2 22	2.5Y5/2	MD - N 5YR4/6	MD - N 5Y6/1	Yes 2	ZC - Silty	0 0	0	HR -	All har	rd rocks or stones (i.e. those which	cannot be scratche	with Not A	plic NON - N	No N	lo -6 -	29 3a	WC V 4	Wetness	4		6-048
					22	2 60	38	2.5Y6/2	MD - N 5YR4/6	MD - N 5Y6/1	Yes 2	ZC - Silty	0 0	0	HR -	All har	rd rocks or stones (i.e. those which	cannot be scratche	with Poor	NON - N		es						
					60	12	0 60	2.5Y6/1	MD - N 5YR4/6	MD - N 5Y6/1	Yes 2	ZC - Silty	0 0	0	HR -	All har	rd rocks or stones (i.e. those which	cannot be scratche	with Poor	NON - N	No Y	es						
TO 68032 736	523 568032 17	3623 0	≤7		0	22	22	2.5Y4/2	CD - Ci 5YR4/6	CD - C: 5Y6/1	Yes 7	ZC - Silty	0 0	0	HR -	All har	rd rocks or stones (i.e. those which	cannot be scratched	with Not A	pplic NON - N	No N	lo -6 -	29 3a	WCV 4	Wetness	4		6-049
					22			2.5Y6/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which			NON - N					1			
					55	5 12	0 65	2.5Y6/1	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which				No Y	es						
TO 67922 720	523 567932 17	2622 N	<7		-	22	2 22	2.5Y5/2	CD - Cı 5YR4/6	CD - C: 5Y6/1	Voc :	ZC - Silty	0 0	0	HP.	All bar	rd rocks or stones (i.e. those which	cannot he scratche	l with Not A	nolic NON - N	No N	lo -6 -	20 22	WCV 4	Wetness	4		6-050
10 07 532 730	323 307332 17	3023 0			22			2.5Y6/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which				No Y		25 58	1	Wethess	*		0-03
					58			2.5Y6/1	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which				No Y							
					- 1						"	,					1											
TO C0022 72	723 568032 17	2722 2	<7		-	22		2.5Y5/2	MD - N 5YR4/6	MD - N 5Y6/1	V	C CIII	0 0	0	110	All b	rd rocks or stones (i.e. those which		d da la	-U- NON A	N- N		20 2-	WCV 4	Wetness			6-051
TQ 68032 /3/	/23 508032 1/	3/23 2	5/		0			2.5Y5/2 2.5Y6/2	MD - N 5YR4/6	MD - 1 5Y6/1		ZC - Silty ZC - Silty		0			rd rocks or stones (i.e. those which rd rocks or stones (i.e. those which				No Y		28 38	WCV 4	wetness	4		6-051
								2.5Y6/1	MD - N 5YR4/6	MD - 1 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which				No Y							
							.0 05	2.510/1	1110 115111470	1110 1 310/1	1.03	20 3.11.4		Ü			la rocks or stories (i.e. triose which	rearrior be seruterie		11011								
											1															1.		_
TQ 67932 737	723 567932 17	3723 2	≤7		0			2.5Y5/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which						28 3a	WC V 4	Wetness	4		6-052
					24	4 60		2.5Y6/2 2.5Y6/1	MD - N 5YR4/6 MD - N 5YR4/6	MD - N 5Y6/1 MD - N 5Y6/1		ZC - Silty ZC - Silty		0			rd rocks or stones (i.e. those which rd rocks or stones (i.e. those which				No Y							
					ler.	, 12	.0 00	2.310/1	WID - 11 31 N4/0	IND - 1 310/1	res /	LC - SHLY	0 0	U	nr.	All ridi	ra rocks or stories (i.e. triose which	i camiot de scratche	a with roof	INOIA - IV	110	C3						
											\perp																	_
TQ 67932 738	323 567932 17	3823 2	≤7		0			2.5Y4/2	CD - Ci 5YR4/6	CD - C: 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which						30 3a	WC V 4	Wetness	4		6-05
								2.5Y6/2	MD - N 5YR4/6	MD - N 5Y6/1		ZC - Silty		0			rd rocks or stones (i.e. those which				No Y							
					50	J 12	10 /0	2.5Y6/1	MD - N 5YR4/6	MD - N 5Y6/1	Yes 2	ZC - Silty	U U	0	HR-	All nar	rd rocks or stones (i.e. those which	cannot be scratche	with Poor	NON - N	No Y	es						
					- 1					1	1 1					- 1			1	1				1	1	1	I .	

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

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Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platv

MASS - Massive NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable Friable

Firm Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI WC II

WC III

WC IV WC V

WC VI

ALC Grades

1 2

За

3b

4

5

Non-Ag

None

Gley

Project Number	Project Name				Parcel
ALCSP11	C629 LTC ALCS	P11			ALCSP11
	•		<u> </u>	1	
Date of Survey	Survey Type		Surveyor(s)		npany
21/02/2019			RWA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ67237722			RM188QP	6	26.5
MAFF prov		MAFF detailed		Flooding	
Grade 2/3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
558	1493	128	126	103	1
Bedrock			Superficial depo	sits	
Lewes Nodular Cha	lk/Seaford Chalk/N	lewhaven Chalk	Alluvium		
Soil association(s) 1	·250 000		Deta	iled soil information	
Wallasea 1	230,000		None		
			<u></u>		
Revision Number			Date Revised		
1			06/02/2019		

NGR X Y	(m) Slope O Aspect Land us	e Ton let	ttm Thiel	Matrix k Munsell colou	r Form Munsell co	les Grey Mottles	Gley	Texture Stor	nes - type 1 Stones - type 2 > 6cm Type % > 2cm > 6cm Type Strength HR - All hard rocks or stones (i.e. those which cannot be considered by the considered by	Ped SUBS STR	CaCO3 Mn C	SPL MBw MPs	Gd WC Gw	Final ALC	3 Grade Profile notes	Client Ref.
TQ 67232 77223 567232 177223 6	≤7	TOP DO		10YR4/2	ii i oriii ividiiseii co	ioui i oiiii iviuiiseii coio	Jui	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - Non-ca	No -2 -22	3a WC III 3b	Wetness	3b	10-050
				2.5Y4/3				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wit Moderate	e NON - NNo	Yes				
		35 12	20 85	5Y6/2	CP - Ct 7.5YR5/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor	NON - NYes	Yes				
TQ 67132 77223 567132 177223 0	≤7			10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann				3a WC III 3b	Wetness	3b	10-051
				2.5YR5/2	MD - 1 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann		NON - NYes	Yes				
		33 12	20 87	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Poor	NON - NYes	Yes				
TO 67032 77223 567032 177223 2	<7	0 27	7 27	10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not he scratched wit Not Anni	ic NON - NNo	No -3 -24	3a WCIII 3h	Wetness	3h	10-052
100,032,7723,30,032,17723,2				2.5Y5/2	MP - N 7.5YR4/6			C - Clay 0	HR - All hard rocks or stones (i.e. those which can	not be scratched wi Poor	NON - NYes	Yes	30 100 111 30			20 032
TQ 66932 77223 566932 177223 2	≤ 7	0 28	8 28	10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - NNo	No -3 -24	3a WC III 3b	Wetness	3b	10-053
	-	28 12	20 92	2.5Y5/3	MP - N 7.5YR5/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wir Poor	NON - NYes	Yes				
TQ 66632 77223 566632 77223 2	≤ 7	0 30	0 20	10YR4/1			No	C - Clay 0	HR - All hard rocks or stones (i.e. those which can	not be scratched wit Not Appli	ic NON - NNo	No 10 -12	3a WCIII 3h	Wetness	3h	9-050
0003277223 300032 77223 2		20 35	5 15	10YR4/2	MD - 1 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wir Moderate	e NON - NNo	No -12	I**CIII 30			3-030
		35 50) 15	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e NON - NNo	No				
		50 12	.u /0	2.5YR5/1	VP - Very many Pr	umment	Yes	C - Clay	нк - All nard rocks or stones (i.e. those which cann	ioi de scratched wil Moderati	e NUN - Non-ca	INO				
TQ 67332 77323 567332 177323 6	- 7	0	0 10					C - Clay				-111 -109	4		Non-Ag No Site Access (Mott)	10-056
14 0/332 //323 30/332 1//323 6	2/	0 10	, 10					C - Clay				-111 -109	-		INO SILE ACCESS (MOTT)	10-026
TO 67232 77323 567232 177323 6		0 11	0 10					C - Clav				-111 -109			Non-Ag No Site Access (Mott)	10-057
146/232 //323 56/232 1//323 6	5/	0 10	, 10					c - clay				-111 -109	4		NO SITE Access (Mott)	10-057
TQ 67132 77323 567132 177323 0	≤7	0 18	3 18	10YR4/2 2.5YR5/2	MD - 1 5YR4/6		No	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which can HR - All hard rocks or stones (i.e. those which can	not be scratched wi Not Appli	ic NON - NNo	No 10 -12	3a WC III 3b	Wetness	3b	10-058
		30 12	20 90	2.5YR5/2 2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e NON - NNo					
TQ 67032 77323 567032 177323 2	≤7	0 20) 20	10YR4/2 10YR5/3	CD - C: 10YR5/6	CD - Cc2.5Y6/2	v	C - Clay 0	HR - All hard rocks or stones (i.e. those which can	not be scratched wi Not Appli	ic NON - Non-ca		3a WC III 3b	Wetness	3b	10-059
		40 12	20 80	10YR5/3 5Y5/2	MP - N 7.5YR5/6	CD - C(2.5Y6/2	Yes	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor not be scratched will Poor	NON - NNo NON - NNo	Yes Yes				
		1														
TQ 66932 77323 566932 177323 2	≤7			10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - Non-ca	No 46 -7	2 WC II 3a	Wetness	3a	10-060
		28 40) 12	2.5Y5/3 2.5Y6/3	CD - C: 10YR5/6 MP - N 10YR5/8	CD - Cc2.5Y6/1	Yes	C - Clay 0 HZCL - Sil 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor	NON - NYes	Yes				
		60 12	20 60	2.5Y6/3 2.5Y6/2	CP - Ct 10YR4/6			ZL - Silt Ic0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e VC - VerNo	No				
					. ,-											
TQ 66832 77323 566832 177323 2	≤7			10YR4/2	CD - C: 5YR5/1		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - NNo	No 6 -16	3a WC II 3a	Wetness	3a	10-061
				2.5YR5/2	MD - 1 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor	NON - NNo	Yes				
		35 12	:u 85	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched will Moderate	e NON - NNo	NO				
TQ 66732 77323 566732 177323 2	≤ 7	0 29	5 25	10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wit Not Annii	ic NON - NNo	No -4 -25	3a WC III 3b	Wetness	3b	10-062
500/32 1//323 2		25 35	5 10	2.5Y4/3			No	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wir Poor	NON - NNo	Yes				20 002
		35 12	20 85	5Y6/2	CP - Ct 7.5YR5/8		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Poor	NON - NNo	Yes				
	- 7	0 20	0 20	10YR4/1			B.I.o.	C - Clay 0	UP All hard rocks contained in Abana China	not be constabled	ic NON . NA	No. 10. 12	23 M/C III 31	Wetness	2h	9-052
TO 66622 77222 F66622 477222 2	5/			10YR4/1 10YR4/2	MD - 1 5YR4/6		Yes	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched without Appli not be scratched withoderate	e NON - NNo	No 10 -12	Ja VVCIII 30	**ETHE22	30	9-052
TQ 66632 77323 566632 177323 2		38 50	0 12	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wit Moderate	e NON - NNo	No				
TQ 66632 77323 566632 177323 2		ISO 17	20 70	2.5YR5/1	VP - Very many Pr	ominent	Yes	C - Clay	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e NON - Non-ca	No				
TQ 66632 77323 566632 177323 2		30 11														
TQ 66632 77323 566632 177323 2		50 11														
TQ 66632 77323 566632 177323 2 TQ 67132 77423 567132 177423 3			0 10					C - Clay				-111 -109			Non-Ag Non-agriculutral	10-063

Grid ref.	Depth (cm) Matrix	Ochreous Mottles Grey Mottles	.	Stones - type 1 Stones - type 2 Ped Drought Wet Final ALC	Client
		Form Munsell colour Form Munsell colour	Gley Texture	re Sudies type 1 Stories type 2 Peu Substitution 1 Size Shape Substitution 2 Size Shape Substitution 2 Size Shape Substitution 3 Size Shape Size Shape Substitution 3 Size Shape Substitution 3 Size Shape Substitution 3 Size Shape Size Shap	Ref.
	20 32 12 2.5YR5/2	MD - 1 5YR4/6	No C - Clay Yes C - Clay Yes C - Clay	y D HR - All hard rocks or stones (i.e. those which cannot be scratched wij Moderate NON - NO NO	10-064
The state of the s	0 30 30 2.5Y4/2 30 50 20 2.5Y4/2 50 120 70 5Y5/2		C - Clay No C - Clay Yes C - Clay	y 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Moderate NON - NO No	10-065
-	0 24 24 10YR4/2 24 50 26 5Y5/2 50 120 70 5Y6/1		Yes C - Clay Yes C - Clay	y 0 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Poor NON - NYes Yes	10-066
.8 TQ 66732 77423 566732 177423 4 ≤7 0 3	0 35 35 10YR4/2 35 120 85 2.5Y5/3	MP - N 10YR5/6 CD - Cr5Y6/1	C - Clay Yes C - Clay		10-067
		MD - N 5YR4/6	No C - Clay Yes C - Clay Yes C - Clay	y 0 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Moderate NON - NO	10-068
10 TQ 66932 77523 566932 177523 3 ≤7 0 3	0 35 35 10YR4/2 35 120 85 2.5Y5/2	CP - Ct 7.5YR5/6 CD - Ct 2.5Y6/1	C - Clay Yes C - Clay		10-069
11 TQ 66532 77223 566532 177223 2 s7 0	0 10 10		C - Clay	y111 -109 4 Non-Ag No Land Acce	9-051
END					

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel					
ALCSP12	C629 LTC ALCSP	12			ALCSP12					
Date of Survey	Survey Type		Surveyor(s)		npany					
21/02/2019			RM	Ask	ew Land and Soil					
Weather		Relief		Land use and v	egetation					
Dry, Sunny		Level		LEY (Ley Grass)						
			1							
Grid Reference			Postcode	Altitude	Area					
TQ67037802			RM188QU	3	26.60000038					
MAFF prov		MAFF detailed	d	Flooding						
Grade 2/3		None		Flood Zone 1	<u>l</u>					
AAR	AT0	MDw	MDp	FCD	Climate grade					
552	1496	122	127	102	1					
Bedrock			Superficial depos	sits						
Thanet Formation			Taplow Gravel M	1ember/Head						
Soil association(s) 1	:250,000		Detailed soil information							
Hucklesbrook			None	2						
			<u> </u>							
Revision Number			Date Revised							
1			06/02/2019							

Grid ret. Alt (i	m) Slope O Aspect Land use	Depth (c	m) Matrix	Ochreous Mottl	es Grey Mottles	Glev Tex	cture	Stones - type	1 Stones - type 2	Ped	SUBS STR CaCO3 Mn	C SPL	Drought	Wet		Final ALC	,	Profile notes	Client
NGR X Y 7 TO 67031 78022 567032 178023 3	≤7	rop been	Thick Munsell of 30 10YR4/2	colour Form Munsell colo	ur Form Munsell color	ur	Fine 12	> 2cm > 6cm	1 Stones - type 2 Type	Strength Size Shape	SUBS STR CaCO3 Mn	MBw 9	MBp Gd	WC Gw WC I 3a	Limitation 1 Li Wetness D	imitation 2 Limitation 3	Grade	1	Ref. 10-002
Q 67031 76022 367032 176023 3	5/	30 60	30 7.5YR5/6 60 7.5YR5/6			No SCI	L - San 18	0 2	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched v	vi Moderate	9	-29 3d	WC1 3d	wetness D	rougntmess	3d	Drought	10-002
Q 67031 78123 567032 178123 8	≤7	27 48	27 10YR4/2 21 10YR5/4 72 10YR5/3			No FSI No FSI Yes FS2		6 1	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched v	vi Moderate NON - NNo	No	-4 2	WCI 1	Droughtiness		2	2?	10-003
Q 67031 78223 567032 178223 8	<u>57</u>	30 60	30 10YR4/2 30 7.5YR5/6 60 7.5YR5/6			No FSI No SCI No SCI		8 2	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched v	vi Moderate	No 9 No No	-29 3a	WC I 3a	Wetness D	Proughtiness	3a	Drought?	11-001
Q 66931 78222 566932 178223 8	£7		28 22 5YR5/6 70 5YR5/7			No MS	iL - Me 24 i - Mec 25 i - Mec 26	16 5	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched v	vi Moderate	No -46 No No	-67 4	WC I 3b	Droughtiness		4	Stones/drought?	11-002
TQ 66931 78323 566932 178323 11	£7	25 50	25 7.5YR3/2 25 7.5YR5/4 70 7.5YR5/4			No MS No MS No MS	iL - Me 18 i - Mec 25 i - Mec 26	11 4	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched v	vi Moderate NON - Non-o	al No	-67 4	WC I 3a	Droughtiness		4	Droughtiness and stoniness?	11-003
TQ 66931 78422 566932 178423 11	র	30 50 50 70 70 80	30 7.5YR4/2 20 7.5YR4/4 20 7.5YR4/6 10 7.5YR4/6 40 7.5YR4/6			No SCI No HC			HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched which cannot be sc	vi Moderate NON - NNo vi Moderate NON - NNo vi Moderate NON - NNo	No No	-16 3a	WCI 1	Droughtiness		3a		11-004
TQ 66931 78522 566932 178523 11	s7	35 50 50 75 75 80	35 7.5YR4/2 15 7.5YR4/4 25 7.5YR4/6 5 7.5YR4/6 40 7.5YR4/6			No SCI No HC			HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched which cannot be sc	vi Moderate NON - NNo vi Moderate NON - NNo vi Moderate NON - NNo	No	-15 3a	WCI 1	Droughtiness		3a		11-005
TQ 66831 78523 566832 178523 11	s7	0 30 30 70	30 10YR4/2 40 10YR4/4 5 10YR4/4			FSI No FSI No FSI	Fine 5		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched which cannot be sc	vi Not Applic NON - Non-c vi Moderate NON - No vi Moderate NON - No	al No 9 No No No	-6 2	WCI 1	Droughtiness		2		11-006
TQ 66831 78622 566832 178623 11		35 55	35 10YR4/2 20 10YR4/4 7 10YR4/4 58			No MZ No MZ	Fine 5 !CL - Si 3 !CL - Si 40 !CL - Si 75		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched with the scratched which cannot be scratched	vi Moderate NON - NNo vi Moderate NON - NNo	al No -11 No No No	-23 3a	WCI 1	Droughtiness		3a		11-007
TQ 66731 78623 566732 178623 14	£7	30 40	30 7.5YR4/2 10 7.5YR4/4 5 7.5YR4/4 75			No FSI	Fine 8 Fine 5 Fine 50 Fine 75		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched with the scratched which cannot be scratched	vi Moderate NON - NNo vi Moderate NON - NNo	No	-42 3b	WCI 1	Droughtiness		3b		11-008
TQ 66631 78622 566632 178623 14	s7	30 60 60 70	30 7.5YR4/2 30 7.5YR4/4 10 10YR4/4 30 10YR5/3 20		CD - C(2.5Y6/1	No C - No C - Yes C -	L - San 5 Clay 2 Clay 15 Clay 0 Clay 0		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched which cannot be sc	vi Poor NON - NNo vi Poor NON - NNo vi Poor NON - NNo	No	-29 3a	WC II 2	Droughtiness		За		11-009
TQ 66531 78623 566532 178623 17	£7	30 45	30 10YR4/2 15 10YR5/4 75 10YR5/3			No FSI No FSI Yes FSI		6 1	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched v	vi Moderate NON - NNo	No 62 No No	-3 2	WCI 1	Droughtiness		2		11-010
TQ 66834 78710 566835 178710 11	s7	42 65	42 7.5YR4/2 23 7.5YR4/4 5 7.5YR4/4 50			No SCI			HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched with the scratched which cannot be scratched	vi Moderate NON - NNo vi Moderate NON - NNo	No	-17 3a	WCI 1	Droughtiness		3a		11-013
TQ 66931 78722 566932 178723 9	≤7	0 30	30 7.5YR4/2 30 7.5YR4/4			No FSI	- Fine 5		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched v	Not Applic NON - Non-c	alNo 3	-8 3a	WCI 1	Droughtiness		За		11-012

Point Grid ref. Alt (m) Slope Aspect Land use Depth (cm) Matrix Ochreous Mottle		es - type 1 Stones - type 2	Ped SUBS STR CaCO3 Mn C SI	Drought Wet	Final ALC Profile notes	Client
NGR X Y NGC III Slope Spect Latin use Top Bttm Thick Munsell colour Form Munsell colo	Form Munsell colour % > 2cm	>6cm Type % >2cm >6cm Type Street	ength Size Shape	Drought Wet MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade	Ref.
60 70 10 7.5YR4/4	No SCL - San 2	HR - All hard rocks or stones (i.e. those which	n cannot be scratched wit Moderate NON - NNo N	0		
70 75 5 7.5YR4/4	No SCL - San 50	HR - All hard rocks or stones (i.e. those which	n cannot be scratched wir Moderate NON - NNo N	0		
75 120 45	SCL - San 75	HR - All hard rocks or stones (i.e. those which		0		
75 120 45	502 50075	The Fair hard rocks of stories (i.e. those which	realmor be seratened will moderate			
15 TQ 67030 78730 567031 178730 9 ≤7						11-011
45 70 55774 70772 555772 470722 44 47	N. 551 51 40 5	4 US Allbordende ondere Codhoo bish	n cannot be scratched wi Not Applic NON - NNo N	. 62 2 2 1461 4	Down this con-	
16 TQ 66731 78722 566732 178723 14 ≤7 0 28 28 10YR4/2	No FSL - Fine 10 6				Droughtiness 2	11-014
28 46 18 10YR5/4	No FSL - Fine 8		n cannot be scratched wi Moderate NON - NNo N			
46 120 74 10YR5/3 CD - Ci 5YR5/6	Yes FSZL - Fin 5	HR - All hard rocks or stones (i.e. those which	n cannot be scratched wi Moderate NON - NYes N	0		
END	1 1 1 1					
LIED		I I		J.		1 1

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse NA - N/A

VC - Very Coarse

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name	Parcel					
ALCSP13	C629 LTC ALCSP	ALCSP13					
				T-			
Date of Survey	Survey Type		Surveyor(s)		Company		
21/02/2019			RM	Ask	Askew Land and Soil		
Weather	reather Relief		Land us		e and vegetation		
Dry, Sunny				LEY (Ley Grass)			
Grid Reference			Postcode	Altitude	Area		
TQ66237932			RM16 3LT	16	26.10000038		
MAFF prov MAFF details		MAFF detailed	d	Flooding	Flooding		
Grade 2/3		None		Flood Zone 1			
AAR	AT0	MDw	MDp	FCD	Climate grade		
550	1480	127	125	100	1		
Bedrock			Superficial deposits				
Thanet Formation			Head/None				
Soil association(s) 1:250,000			Detailed soil information				
Hucklesbrook/Fyfield 4			None				
Revision Number			Date Revised				
1			06/02/2019				

Grid ref. Alt (m) Slope O Aspect Land use		Grey Mottles Gley Texture Stones -		Ped SUBS	STR CaCO3 Mn C	SPL Drought Wet	Final ALC Profile not	es
IGR X Y	Top Bttm Thick Munsell colour Form Munsell colour Fo	rm Munsell colour % > 2cm > 6	cm Type % > 2cm > 6cm Type HR - All hard rocks or stones (i.e. those w	Strength Size Shape	5111 Cucos IIIII C	MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade	= 3
Q 66232 79323 566232 179323 16 ≤7	0 30 30 10YR4/2 30 50 20 10YR4/3	MCL - Cla 3 No MCL - Cla 2	HR - All hard rocks or stones (i.e. those w HR - All hard rocks or stones (i.e. those w			No 27 -9 2 WCI 1	Droughtiness 2	
	50 70 20 7.5YR5/4	No HCL - Clay 0	Tik - Ali flaid focks of stories (i.e. tilose w	Model	erate NON - NNo	No		
	70 120 50 7.5YR5/4	No SCL - San O		Mode	erate NON - NNo			
	, , , , ,							
Q 66232 79423 566232 179423 16 ≤7	0 27 27 10YR4/2	No FSL - Fine 3	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Not Ap	Applic NON - Non-ca	No 23 -10 2 WCI 1	Droughtiness 2	
	27 45 18 10YR4/4 45 120 75 7.5YR5/6	No FSL - Fine 4 No MCL - Cla 8	HR - All hard rocks or stones (i.e. those w HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - Non-ca	No		
	45 120 /5 /.5YK5/6	NO MCL-CIAS	HK - All hard rocks or stones (i.e. those w	nich cannot be scratched willinode	erate NON - Non-ca	IINO		
2,66332,79223,566332,179223,19 ≤7	0 27 27 10YR4/2	No FSL - Fine 3	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Not A	Applic NON - Non-ca	No 22 -11 3a WCI 1	Droughtiness 3a	
	27 40 13 10YR4/4	No FSL - Fine 4	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - Non-ca	No.		
	40 120 80 7.5YR4/6	No MCL - Cla 8	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - Non-ca	No No		
66332 79323 566332 179323 11 ≤7	0 30 30 7.5YR4/2	MCL - Cla 3	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Not Ap	Applic NON - Non-ca	No 25 -11 3a WCI 1	Droughtiness 3a	
	30 60 30 7.5YR4/4	No HCL - Clar3	HR - All hard rocks or stones (i.e. those w					Ų.
	60 120 60 7.5YR5/5	No SCL - San 2	HR - All hard rocks or stones (i.e. those w	nich cannot be scratched wi Mode	erate NON - NNo	No		
					1 1			
66432 79123 566432 179123 19 ≤7	0 30 30 7.5YR4/2	FSL - Fine 1	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wit Not A	Applic NON - Non-ca	No 23 -8 2 WC I 1	Droughtiness 2	
	30 70 40 7.5YR4/4	No HCL - Clar1	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wil Mode	erate NON - NNo	No		
	70 120 50 7.5YR4/4	No SCL - San 10	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - NNo	No		
					1 1			
					1 1			
66432 79223 566432 179223 19 ≤7	0 28 28 7.5YR4/2	FSL - Fine 2	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Not Ap	Applic NON - Non-ca	No 20 -13 3a WC I 1	Droughtiness 3a	
	28 60 32 7.5YR4/4	No HCL - Clay 5	HR - All hard rocks or stones (i.e. those w			No		
	60 120 60 7.5YR4/6	No SC - Sand 10	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - NNo	No		
					1 1			
					1 1			
66532 79123 566532 179123 12 ≤7	0 35 35 10VPA/3	No FSL - Fine 3	HR - All hard rocks or stones (i.e. those w	hich cannot be coratched with the	Applic NON - NA	No. 22 . 10 . 2 WC ! . 4	Draughtinger 2	
00332 73123 200332 1/3123 12 5/	0 25 25 10YR4/2 25 45 20 10YR4/4	No FSL - Fine 3 No FSL - Fine 4	HR - All hard rocks or stones (i.e. those w HR - All hard rocks or stones (i.e. those w	thich cannot be scratched with a de-	arate NON - NNO	No 23 -10 2 WCI 1	Droughtiness 2	
	45 120 75 7.5YR5/6	No MCL - Cla 8	HR - All hard rocks or stones (i.e. those w HR - All hard rocks or stones (i.e. those w	hich cannot be scratched with Mode	erate NON - NNo	No		
	//5	THE CHO	I man rocks or stories (i.e. tilose w	Indicate of servicines will woode				
					1 1			
56132 79423 566132 179423 21 ≤7	0 25 25 10YR4/2	No FSL - Fine 3	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Not Ap	Applic NON - NNo	No 23 -10 3a WC I 1	Droughtiness 3a	
	25 42 17 10YR4/4	No FSL - Fine 4	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - NNo	No		
	42 120 78 7.5YR5/6	No MCL - Cla 8	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - NNo	No		
COM 70422 ECCOM 170422 21 -7	+				-	+		
6041 79422 566041 179422 21 ≤7							Non-Ag non-agric	
					1 1			
					1 1			
56126 79518 566126 179518 12 ≤7	0 25 25 10YR4/2	No FSL - Fine 3	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wil Not A	Applic NON - NNo	No 24 -9 2 WCI 1	Droughtiness 2	
	25 48 23 10YR4/4	No FSL - Fine 4	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wil Mode	erate NON - NNo	No		
	48 120 72 7.5YR5/6	No MCL - Cla 8	HR - All hard rocks or stones (i.e. those w	hich cannot be scratched wi Mode	erate NON - NNo	No		
			1					
7000 70000 700000 470000 40					\rightarrow	+		
66032 79523 566032 179523 12 ≤7								
					1 1			
					1 1			
					1 1			
					1 1			
66133 79612 566133 179612 12 ≤7							Non-Ag non-agric	
					1 1			
				1	1 1			

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name	Parcel						
13A	C629 LTC ALCSP	13A						
Date of Survey	Survey Type		Surveyor(s)		Company			
15/04/2019			RA	Aske	Askew Land and Soil			
Weather		Relief		Land use and ve	egetation			
Dry, Sunny				LEY (Ley Grass)				
Grid Reference			Postcode	Altitude	Area			
TQ65537962			RM18 8TL	21	26.29999924			
MAFF prov		MAFF detailed	4	Flooding				
		None			Flood Zone 1			
				<u>I</u>				
AAR	AT0	MDw	MDp	FCD	Climate grade			
549	1474	126	124	100	1			
Bedrock			Superficial dana	citc				
			Superficial deposits Boyn Hill Gravel Member					
Thanet Formation			Boyn Hill Graver	Member				
Soil association(s) 1	:250,000		Deta	iled soil information				
Hucklesbrook			None					
Revision Number			Date Revised					
1			Date Nevised	15/03/2019				

Grid ref. Alt (m) Slope Aspe	ct Land use Depth (cm) Matrix Ochreous Mottles Grey	ottles Gley Texture Stones - type 1 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought Wet	Final ALC Profile notes Client
IGR X Y ALL (III) Slope ASPE Q 65532 79623 565532 179623 21	to Land use Top Bttm Thick Munsell colour Form Munsell colour Form Mu 0 30 30 10YR4/2	attles Stones - type 1 Stones - type 2 Ped Pe	Shape MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade Ref.
(03332 /9023 303332 1/9023 21	30 120 90	No MSL - Me50 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate No	Drongumess 4 11-041
0 65532 79723 565532 179723 24	0 30 30 10YR4/2	No. MSI - Me25 16 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No -43 -54 3b WC I 1	Droughtiness 3b 11-047
1 65532 /9/23 565532 1/9/23 24	0 30 30 104K4/2 30 50 20 104K4/4	No MSL - Me 25 16 HR - All hard rocks or stones (i.e. those which cannot be so No MSL - Me 30 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 35 11-047
	50 52 2 10YR4/4	No MSL - Me 50 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	
	52 120 68 10YR4/4	No MSL - Me 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate No	
0 65432 79723 565432 179723 24	0 30 30 10YR3/1 30 40 10 10YR3/1	MSL - Me50 30 HR - All hard rocks or stones (i.e. those which cannot be so No MSL - Me60 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 4 11-048
	40 120 80	MSL - Me75 HR - All hard rocks or stones (i.e. those which cannot be so		
65332 79723 565332 179723 25	0 35 35 10YR3/1	MSL - Me 50 30 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 4 11-049
	35 43 8 10YR3/1 43 120 77	No MSL - Mel 60 HR - All hard rocks or stones (i.e. those which cannot be so MSL - Mel 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wil Moderate NON - Non-cal No	
	43 120 77	IN - All field Tocks of Scores (i.e. chose which cannot be so	steried will winderate	
65732 79823 565732 179823 21	0 30 30 10YR4/2	MSL - Me 40 20 5 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 4 11-051
	30 40 10 10YR4/3	No MSL - Me 60 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	40 120 80 10YR4/3	No MSL - Me 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched willyidderate INO	
(65632 79823 565632 179823 22	0 30 30 10YR4/2	MSL - Me 60 36 12 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No -77 -83 4 WC I 1	Droughtiness 4 11-052
(03032 73023 303032 173023 22	30 45 15 10YR4/6	No LMS - Log 20 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	Droughtiness 4
	45 50 5 10YR4/6	No LMS - Lot 60 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	50 120 70 10YR4/6	No LMS - Loa 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wil Moderate NON - Non-cal No	
0 65532 79823 565532 179823 24	0 30 30 10YR4/2 30 40 10 10YR4/3	MSL - Me 40 20 12 HR - All hard rocks or stones (i.e. those which cannot be so No MSL - Me 50 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No -60 -71 4 WC I 1	Droughtiness 4 11-053
	40 120 80 10YR4/3	No MSL - Me75 HR - All hard rocks or stones (i.e. those which cannot be so		
	·			
1 65432 79823 565432 179823 24	0 22 22 10YR4/2			Droughtiness 2 11-054
	22 48 26 10YR5/4 48 70 22 7.5YR5/6	No FSL - Fine5 HR - All hard rocks or stones (i.e. those which cannot be so No MCL - Cla1 HR - All hard rocks or stones (i.e. those which cannot be so		
	70 120 50 7.5YR6/3 FD - F¢5YR5/6 FD - F¢2.5			
1 65332 79823 565332 179823 25	0 20 20 10YR4/2	No FSL - Fine 5 1 0 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 33 -7 2 WC I 1	Droughtiness 2 11-055
	20 45 25 10YR5/4	No FSL - Fine 5 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	45 70 25 7.5YR5/6 70 120 50 7.5YR6/3 FD - F¢5YR5/6 FD - F¢2.5	NO MCL - Cla1 HR - All hard rocks or stones (i.e. those which cannot be so 5/2 Yes MSZL - M1 HR - All hard rocks or stones (i.e. those which cannot be so		
	70 110 30 7.3110/3 10 103113/0 15 102.3	y 2 Tes Marie Mari	stated without their tearles	
65232 79823 565232 179823 26	0 22 22 10YR4/2	No FSL - Fine 5 1 0 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 34 -7 2 WC I 1	Droughtiness 2 11-056
	22 48 26 10YR5/4	No FSL - Fine 5 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	-
	48 70 22 7.5YR5/6	No MCL - Cla1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	70 120 50 7.5YR6/3 FD - F€5YR5/6 FD - F€2.5	5/2 Yes MSZL - M 1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
(65532 79923 565532 179923 21	0 30 30 10YR4/2 30 40 10 10YR4/6	SCL - San 25 11 HR - All hard rocks or stones (i.e. those which cannot be so No FSL - Fine 10 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 3b 11-058
	40 50 10 10YR4/6	No LFS - Loai 30 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	50 120 70	LFS - Loa 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
65432 79923 565432 179923 21	0 22 22 10YR4/2	No FSL - Fine 10 6 1 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 27 -14 3a WC I 1	Droughtiness 3a 11-059
	22 49 27 10YR5/4 49 70 21 7.5YR5/6	No FSL - Fine 16 HR - All hard rocks or stones (i.e. those which cannot be so No MCL - Cla 1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	70 120 50 7.5YR6/3 FD - F¢5YR5/6 FD - F¢2.5	5/2 Yes MSZL - M1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
(65332 79923 565332 179923 21	0 20 20 10YR4/2	No FSL - Fine 5 1 0 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 33 -7 2 WC I 1	Droughtiness 2 11-060
~	20 44 24 10YR5/4	No FSL - Fine 5 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	-
	44 70 26 7.5YR5/6	No MCL - Cla 1 HR - All hard rocks or stones (i.e. those which cannot be so		
	70 120 50 7.5YR6/3 FD - F¢ 5YR5/6 FD - F¢ 2.5	5/2 Yes MSZL - M 1 HR - All hard rocks or stones (i.e. those which cannot be so	atcned wi moderate NON - Non-call No	
- CC222 70022 CCC222 470	22 22 40/04/2	N. 51 5. 0 2 0 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
65232 79923 565232 179923 21	0 22 22 10YR4/2 22 55 33 10YR5/4	No FSL - Fine 8 3 0 HR - All hard rocks or stones (i.e. those which cannot be so No FSL - Fine 10 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 2 11-061

Poi	Grid ref. Alt (m) Slope Aspect Land use		epth (Matrix	Ochreous Mottles	Grey Mottles	Glev	Texture		nes - type 1		Stones - type		Per		SUBS STR	CaCO3	Mn C SP		ought	Wet		Final ALC		Profile notes	Client
1	NGR X Y XI (III) Stope Aspect Land use				Munsell colour 7.5YR5/6	Form Munsell colour	Form Munsell colour		ZL - Silt Id 1			Type % >: HR - All hard roo				ze Shape				MBW	MBp Gd	WC Gw	Limitation 1	Limitation 2 Limitation	3 Grade		Ref.
		33	120	03	7.511(5)(0			140	ZL - SIIL IGI			IIK-All liaid loc	LKS OF SCOTIES (I	i.e. tilose v	VIIICII CAIIIIOC DE	scrattieu w	Wioderate	NON - N	OII-Callino								
15	TQ 65432 80023 565432 180023 21	0	25	25	10YR4/2			Nο	FSZL - Fin 6	2	0	HR - All hard roo	rks or stones (i	i.e. those v	which cannot be	scratched w	Not Applica	hle	No	n 29	-6 2	WCI 1	Droughtiness		2		11-062
			50		10YR5/4				SCL - San 5			HR - All hard roo							No	0							
		50	120	70	7.5YR5/6			No	HCL - Clay4			HR - All hard roo	cks or stones (i	i.e. those v	vhich cannot be	scratched w	Moderate		No	D							
16	TQ 65332 80023 565332 180023 21				10YR4/2				FSL - Fine 6			HR - All hard roo									-14 3a	WCI 1	Droughtiness		3a		11-063
					10YR5/4				SCL - San 5			HR - All hard roo															
		50	120	70	7.5YR5/6			No	HCL - Clay4			HR - All hard roo	cks or stones (i	i.e. those v	vhich cannot be I	scratched w	Moderate	NON - N	on-cal No	0							
L																											
17	TQ 65232 80023 565232 180023 21		25		10YR4/2 10YR5/4				FSL - Fine 5 FSL - Fine 5	1		HR - All hard roo									-7 2	WCI 1	Droughtiness		2		11-064
					7.5YR5/6				MCL - Cla 1			HR - All hard roo															
					7.5YR6/3	FD - F¢ 5YR5/6			MSZL - M1			HR - All hard roo															
							,																				
18	TO 65332 80123 565332 180123 22	0	30	30	10YR4/2				MCL - Cla 2			HR - All hard roo	rks or stones (i	i e those v	which cannot be	scratched w	Not Applic	NON - N	No No	n 27	-7 2	WCI 1	Droughtiness		2		11-065
10	100332001233033210012322	30			10YR4/1				MCL - Cla 2			HR - All hard roo									, ,		D. Ougittiness		ľ		11 303
		50			7.5YR4/5				HZCL - Sil 0			[Moderate										
\vdash	END																										1

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II WC III

WC IV

WC V

WC VI

2

3a

3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13B	C629 LTC ALSCP	13B			13B
Date of Survey	Survey Type		Surveyor(s)	Con	npany
16/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ65137982			RM16 4UB	26	22.79999924
MAFF prov		MAFF detailed	<u>d</u>	Flooding	
Grade 3		None		Flood Zone 1	
	I _A TO	laan.	laan .	Ison	
AAR	AT0	MDw	MDp	FCD	Climate grade
551	1469	126	123	100	1
Bedrock			Superficial depos	sits	
Thanet Formation			Boyn Hill Gravel		
Soil association(s) 1	L:250,000		Detai	led soil information	
Hucklesbrook			None		
Revision Number			Date Revised		
1			15/03/2019		

Grid ref. Alt (m)	lope Aspect Land use	Ton Btt	m Thick	Matrix Munsell color	Ochreous Mottles ur Form Munsell colour		Gley Texture	Stones - type 1 Stones - type 2	Ped Strength Size Shane	SUBS STR CaCO3 Mn (SPL MRw	MRn Gr	I WC Gw	Limitation 1 Limitation	al ALC	Profile notes	Client
0 65131 79822 565131 179822 26	7			10YR4/2	ar rom mansen coloar	TOTAL INIGINEER COIDER	No MCL - Cla	5 2 0 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Applic NON - Non-c	al No 21	-12 3a	WCII 2	Droughtiness	3a	-	11-057
				10YR5/6			No HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Moderate NON - Non-c	al No						
		60 120	0 60	10YR6/4	CD - Ci 5YR5/6		Yes HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - Non-c	al No						
65239 80120 565239 180120 20	7			10YR4/2			MCL - Cla		which cannot be scratched v			-2 2	WCI 1	Droughtiness	2		11-066
				10YR4/4			FSZL - Fir			Moderate NON - Non-c	al No						
				7.5YR4/6 10YR5/3	CD - C: 10YR5/6		C - Clay Yes SCL - San			Poor NON - NYes Moderate NON - NYes							
		80 120	0 40	10113/3	CD - CI 101K5/6		res SCL - Sali			Widdelate NON - NTes	INO						
65131 79923 565131 179923 21	:7	0 25	25	10YR4/2 10YR5/6			No MCL - Cla		which cannot be scratched v	wi Not Applic NON - Non-c	al No 22	-12 3a	WCI 1	Droughtiness	3a		12-004
				10YR5/6 10YR6/4	CD - Ci 5YR5/6		No HCL - Cla Yes HCL - Cla										
							1.00										
65031 79923 565031 179923 24	7	0 30	30	10YR4/2			No MCL - Cla	5 2 0 HR - All hard rocks or stones (i.e. those	which cannot be scratched a	wi Not Applic NON - Non-c	al No. 23	.11 3a	WCI 1	Droughtiness	30		12-005
0303173323 303031 173323 24				7.5YR5/4			No HCL - Cla		which cannot be scratched w	wi Moderate NON - Non-c	al No	11 50		broughtmess	50		12 003
		60 120	0 60	5YR4/4	FD - F¢ 5YR5/8	FD - F€ 2.5YR5/2	Yes HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - Non-c	al No						
		1									1		1				
64931 79923 564931 179923 24	7	0 29	29	10YR4/2			No MCL - Cla		which cannot be scratched v	wi Not Applic NON - Non-c	al No 12	-10 3a	WCI 1	Droughtiness	3a		12-006
				7.5YR5/6			No HCL - Cla										
		60 120	u 60	7.5YR6/6	FF - Fe 5YR5/1	FF - Fe 2.5YR5/2	Yes C - Clay	5 HR - All hard rocks or stones (i.e. those	wnich cannot be scratched v	wi moderate NON - Non-c	anNo		1				
		1									1		1				
64831 79922 564831 179922 24	7			10YR4/2			No MCL - Cla		which cannot be scratched v	wi Not Applic NON - Non-c	al No 11	-11 3a	WCI 1	Droughtiness	3a		12-007
				7.5YR5/6 7.5YR6/6	FF - Fe SYR5/1	FF - Fe 2.5YR5/2	No HCL - Cla Yes C - Clay	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those									
		00 120	0 00	7.5110/0	11-163113/1	11 -162.3183/2	les ic-clay	TIK - All Hard Tocks of Stories (i.e. trios	l carinot be scratched to	WI WIOGETALE INOIN - NOIT-C	ailivo						
65131 80023 565131 180023 21	7	0 22	22	10YR4/3			SCL - San	5 HR - All hard rocks or stones (i.e. those	.hish sound be sessioned.	of Net Application New o	albia 11	22 20	WCI 1	Droughtiness	20		12-014
03131 00023 303131 100023 21	./			7.5YR4/4			SCL - San					-22 3d	WCI I	Droughtiness	Sd		12-014
				7.5YR4/6			C - Clay										
		80 85	5	7.5YR4/6			SC - Sano	20 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Poor NON - Non-c	al Yes						
		85 120	0 35				SC - Sano	50 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Poor	Yes						
65031 80022 565031 180022 24	7	0 30	30	10YR4/2			SCL - San	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Applic NON - Non-c	al No -1	-15 3a	WCI 1	Droughtiness	3a		12-015
		30 50	20	10YR4/4			HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Moderate NON - Non-c	al No						
				10YR5/4			HCL - Cla										
		70 75 75 120		10YR5/4			HCL - Cla HCL - Cla				al No						
		/5 120	0 45				IICE - Cla	TIK - All Hard Tocks of Stories (i.e. trios	l carinot be scratched t	Willivioderate	140						
64931 80022 564931 180022 24	7			10YR4/2			MSZL - N		which cannot be scratched v	wi Not Applic NON - Non-c	al No -2	-5 3a	WCI 1	Droughtiness	3a		12-016
				7.5YR4/4 7.5YR4/4			FSZL - Fir HCL - Cla										
				7.5YR4/4 7.5YR4/4			HCL - Cla										
		65 120					HCL - Cla				No						
C4024 00022 CC4024 400022 24	-	0 22	22	401/04/2			14671	2 48 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		No. 1		44 2:	14151 4	Daniel Maria	2.		42.047
64831 80022 564831 180022 24	./			10YR4/2 10YR4/4			MSZL - N FSZL - Fir		which cannot be scratched which cannot be scratched which	wi Not Applic NON - Non-c	al No 3	-11 3a	WCI 1	Droughtiness	3a		12-017
				10YR4/4			FSZL - Fir	50 HR - All hard rocks or stones (i.e. thos	which cannot be scratched with the scratched which cannot be scratched	wi Moderate NON - NNo	No						
		53 120		•			FSZL - Fir						1				
		1									1		1				
65131 80122 565131 180122 20	7	0 30	30	10YR4/2			FSZL - Fir	0 HR - All hard rocks or stones (i.e. those	which cannot be scratched a	wi Not Applic NON - NNo	No. 52	19 1	WCI 1	Droughtiness	1		12-025
03131 00111 303131 100111 10				10YR4/4			FSZL - Fir		which cannot be scratched w	wi Moderate NON - NNo	No			broughtmess	-		12 023
		50 120	0 70	7.5YR4/6			HZCL - Si	0 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - NYes	No						
65031 80123 565031 180123 19	7			10YR4/2			MCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Not Applic NON - Non-c	al No -9	-26 3a	WCI 1	Droughtiness	3a		12-026
				10YR4/4			HCL - Cla				No						
		50 120	0 70				HCL - Cla	50 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - NNo	No						
		1									1		1				
64931 80123 564931 180123 20 5	7	0 30		10YR4/2			MCL - Cla					-17 3a	WCI 1	Droughtiness	3a		12-027
		30 50		7.5YR4/4			MZCL - S		which cannot be scratched v	wi Moderate NON - Non-c	alNo		1				
				7.5YR4/6 10YR4/6			HCL - Cla No HCL - Cla						1				
				10YR4/6			No HCL - Cla	75 HR - All hard rocks or stones (i.e. thos	which cannot be scratched w	wi Moderate	No		1				
		1									1		1				
	7			10YR4/2 10YR4/4			No MSL - Me No MSL - Me	10 HR - All hard rocks or stones (i.e. those 10 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Not Applic NON - NNo	No -32	-42 3b	WCI 1	Droughtiness	3b		12-028
64831 80123 564831 180123 20		34 45															

Grid ref. Depth (cm) Matrix	Ochreous Mottles Grey Mottles	Stones - type 1 Stones - type 2	Dark	Decumbs 18/as	Final ALC	Client
Point Grid ref. Alt (m) Slope ° Aspect Land use Depth (cm) Matrix NGR X Y Alt (m) Slope ° Aspect Land use Depth (cm) Matrix NGR colour Form Muscell colour Form Muscell colour Gley Texture		Ped SUBS STR CaCO3 Mn C	SPL Drought Wet MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade Profile notes	Ciletti	
	colour Form Munsell colour Form Munsell colour	% > 2cm > 6cm Type % > 2cm > 6cm Type	strengtn Size Snape	IMBM IMBD IGG IMC IGM	Limitation 1 Limitation 3 Grade	Ket.
			ich cannot be scratched wi Moderate NON - No	NO		
50 120 70	No MSL - N	Me 75 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wil Moderate No	No		
15 TQ 64931 80222 564931 180222 20 ≤7 0 28 28 10YR4	MCL - C	Cla 5 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Not Applic NON - Non-cal	No -28 -35 3b WC I 1	Droughtiness 3b	12-041
28 45 17 7.5YR	HCL - Cl	Clar 5 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Moderate NON - Non-cal	No		
45 50 5 7.5YR	HCL - Cl	Cla 50 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Moderate NON - NNo	No		
50 120 70	HCL - Cl	Clar75 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wit Moderate	No		
16 TQ 64831 80222 564831 180222 20 ≤7 0 25 25 10YR4	MSL - M	Me8 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Not Applic NON - Non-cal	No -49 -59 4 WCI 1	Droughtiness 4	12-042
25 35 10 10YR4			ich cannot be scratched wi Moderate NON - NNo			
35 120 85	MSL - M		ich cannot be scratched wi Moderate NON - NNo			
33 110 03	III III	The Fall hard Tocks of Stories (i.e. those wi	ner cambe be serated without face from 1940			
END						

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WCIV

WC V

WC VI

ALC Grade

2

3a

3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13C	C629 LTC ALCSP	13C			13C
	-		-		
Date of Survey	Survey Type		Surveyor(s)		npany
16/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
				1	
Grid Reference			Postcode	Altitude	Area
TQ63737992			RM16 3AH	26	22.20000076
MAFF prov		MAFF detailed	<u>d</u>	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
554	1469	125	123	101	1
			lo con		
Bedrock			Superficial depo		
Thanet Formation			Boyn Hill Gravel	Memb	
Soil association(s) 1	·250 000		Dota	iled soil information	
Hucklesbrook	230,000		None		
пискіезргоок			None	t	
Revision Number			Date Revised		
1			15/03/2019		

Grid ref. Alt (m) Slope Aspect	and use Depth (cm) Matrix Ochreous Mottles	Grey Mottles Gley Texture Stones - type 1 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought Wet	Final ALC Profile notes Client
A I	Top Bttm Thick Munsell colour Form Munsell colour Form		Non-cal No 14 -9 2 WC Drought Wet Non-cal No 14 -9 2 WC 1 Non-cal No 14 Non-cal Non-cal No 14 Non-cal Non-cal No 14 Non-cal	mitation 2 Limitation 3 Grade Ref. 2 12-008
Q 64732 79923 564732 179923 22 ≤7	27 55 28 10YR4/4	No HCL - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratcl	ned wi Moderate NON - Non-cal No	2 12-008
	55 120 65 7.5YR4/6	No C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratch	hed wi Moderate NON - Non-cal No	
1 64632 79923 564632 179923 24 ≤7	0 24 24 10YR4/2		ned wi Not Applic NON - Non-cal No 5 -14 3a WC I 1 Droughtiness	3a 12-009
	24 50 26 10YR4/4 50 120 70 7.5YR4/6	No MCL - Clad HR - All hard rocks or stones (i.e. those which cannot be scratc) No C - Clay 15 HR - All hard rocks or stones (i.e. those which cannot be scratc)		
	50 120 70 7.5YR4/6	NO C - Clay 15 HK - All hard rocks or stones (i.e. those which cannot be scratci	ned will moderate INON - Non-call No	
1 64732 80023 564732 180023 22 ≤7	0 23 23 10YR4/3	No FSL - Fine 8 2 0 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -8 -25 3a WC I 1 Droughtiness	3a 12-018
	23 52 29 7.5YR4/4 52 120 68 7.5YR5/6	No FSL - Fine 8 GH - Gravel with non-porous (hard) stones No MS - Med 12 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
	32 120 06 7.51K3/0	NO INS - Med 12 GIT - Graver with non-porous (nard) stones	Moderate Non-Cal No	
(64632 80023 564632 180023 24 ≤7	0 25 25 10YR4/3 25 52 27 7.5YR4/4	No FSL - Fine 8 2 0 GH - Gravel with non-porous (hard) stones No FSL - Fine 8 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -8 -25 3a WC I 1 Droughtiness Moderate NON - Non-cal No	3a 12-019
	52 120 68 7.5YR5/6	No MS - Meq 12 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
(64532 80023 564532 180023 24 ≤7	0 22 22 10YR4/3 22 54 32 7.5YR4/4	No FSL - Fine 8 2 0 GH - Gravel with non-porous (hard) stones No FSL - Fine 8 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -7 -22 3a WC I 1 Droughtiness Moderate NON - Non-cal No	3a 12-020
	54 120 66 7.5YR5/6	No MS - Med 12 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
0,64332 80023 564332 180023 25 ≤7	0 22 22 10YR4/3	No FSL - Fine 10 5 0 HR - All hard rocks or stones (i.e. those which cannot be scratc)	ned wi Not Applic NON - Non-cal No 0 -19 3a WC I 1 Droughtiness	3a 12-021
204352 00023 304352 100023 23	22 52 30 7.3YR5/6	No MCL - Cla 10 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate NON - Non-cal No	
	52 120 68 7.5YR4/6	No C - Clay 15 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate NON - Non-cal No	
2,64732 80123 564732 180123 22 ≤7	0 22 22 10YR4/3	MSL - Me3 HR - All hard rocks or stones (i.e. those which cannot be scratci	ned wi Not Applic NON - Non-cal No 16 -14 3a WC I 1 Droughtiness	3a 12-029
	22 40 18 7.5YR5/4	No FSZL - Fin 3 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate NON - NNo No	
	40 45 5 7.5YR5/4 45 120 75	No FSZL - Fin 20 HR - All hard rocks or stones (i.e. those which cannot be scratc) FSZL - Fin 50 HR - All hard rocks or stones (i.e. those which cannot be scratc)		
Q 64632 80123 564632 180123 22 ≤7	0 30 30 10YR4/3	MSL - Me 3 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Not Applic NON - Non-cal No -8 -31 3b WC I 1 Droughtiness	3b 12-030
	30 40 10 7.5YR5/4 40 50 10 7.5YR5/4	No MSL - Me3 HR - All hard rocks or stones (i.e. those which cannot be scratci No MSL - Me20 HR - All hard rocks or stones (i.e. those which cannot be scratci	ned wi Moderate NON - NNo No ned wi Moderate NON - NNo No	
	50 120 70	MSL - Me 50 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate No	
Q 64532 80123 564532 180123 22 ≤7	0 28 28 10YR4/3 28 40 12 7.5YR5/4	MSL - Mel 8 HR - All hard rocks or stones (i.e. those which cannot be scratc) No MSL - Mel 10 HR - All hard rocks or stones (i.e. those which cannot be scratc)	ned wi Not Applic NON - Non-cal No -29 -37 3b WC I 1 Droughtiness	3b 12-031
	40 50 10 7.5YR4/4	No HCL - Cla 10 HR - All hard rocks or stones (i.e. those which cannot be scratcl	ned wi Moderate NON - NNo No	
	50 55 5 7.5YR4/4 55 120 65	No HCL - Cla 50 HR - All hard rocks or stones (i.e. those which cannot be scratcl HCL - Cla 75 HR - All hard rocks or stones (i.e. those which cannot be scratcl	ned wi Moderate NON - NO No	
2,64419 80124 564419 180124 21 ≤7	0 24 24 7.5YR4/3	No FSL - Fine 12 6 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -21 -37 3b WC I 1 Droughtiness	3b 12-032
204415 00124 304415 100124 21 27	24 52 28 7.5YR5/4	No MSL - Me 15 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	12 032
	52 120 68 7.5YR5/6	No MS - Med 18 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
(64332 80123 564332 180123 22 ≤7	0 25 25 7.5YR4/3	No FSL - Fine 12 6 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -22 -38 3b WC I 1 Droughtiness	3b 12-033
	25 50 25 7.5YR5/4	No MSL - Me 15 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
	50 120 70 7.5YR5/6	No MS - Med 18 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
0 64232 80123 564232 180123 23 ≤7	0 22 22 7.5YR4/3	No FSL - Fine 12 6 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -22 -37 3b WC I 1 Droughtiness	3b 12-034
	22 52 30 7.5YR5/4 52 120 68 7.5YR5/6	No MSL - Mel 15 GH - Gravel with non-porous (hard) stones No MS - Med 18 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
Q 64532 80223 564532 180223 22 ≤7	0 24 24 10YR4/2	No FSL - Fine 6 2 0 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No 33 -1 2 WC I 1 Droughtiness	2 12-045
	24 55 31 10YR5/3 55 120 65 10YR5/2	No FSZL - Fin 8 GH - Gravel with non-porous (hard) stones No SCL - San 10 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
	·			
(64432 80223 564432 180223 21 ≤7	0 25 25 10YR4/2	No FSL - Fine 6 2 0 GH - Gravel with non-porous (hard) stones No FSZL - Fin 8 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No 31 -3 2 WC I 1 Droughtiness Moderate NON - Non-cal No	2 12-046
0443E 00EE3 30443E 100EE3 E1 2/	25 52 27 10YR5/3			

	pint	Grid ref.	14 (m) G	Accord Land	_ D	epth (cn	n) N	Matrix	Ochreous	Mottles	Grey Mottles	Class	Tausture		Stones -	type 1		Sto	nes - type	2		Ped		UBS STR (C+CO2	Man C	CDI	Drought		Wet			Final ALC			Profile notes	Client
P	NGR	X Y	(III) Slope	Aspect Land use	Тор	Bttm 1	Thick N	Munsell colour	Form Muns	ell colour	Form Munsell colour	Gley	rexture	% > 2	2cm > 6	type 1 6cm Ty	pe %	> 2cm	> 6cm	Type	Strength	Size S	Shape	OBSSIR	CaCO3	IVIII C I	ME	Bw MBp	Gd W	/C Gw	Limitation	1 Limitat	tion 2 Lim	nitation 3	Grade	Profile flotes	Ref.
					52	120 (68 1	LOYR5/2			'	No	SCL - Sar	10		GH	I - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No										
1	5 TQ 64332 802	223 564332 180223 22	2 ≤7		0	22	22 7	7.5YR4/4				No	FSL - Fine	8 4	1	GH	I - Grave	with nor	n-porous (l	nard) ston	es		N	lot Applic	NON - N	Non-cal I	No 19	-16	3a W	/C I 1	Droughtine	ess			3a		12-047
					22	54	32 7	7.5YR5/4				No	FSL - Fine	15		GH	H - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No										
					54	120 (66 7	7.5YR5/6				No	MSL - M	20		GH	H - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No										
																	1								1												
1	6 TQ 64232 802	223 564232 180223 23	3 ≤7		0	25	25 7	7.5YR4/4				No	FSL - Fine	8 4	1	GH	I - Grave	with nor	n-porous (I	nard) ston	es es		N	lot Applic	NON - N	Non-cal I	No 20	-16	3a W	CI 1	Droughtine	ess			3a		12-048
					25	55	30 7	7.5YR5/4				No	FSL - Fine	15		GH	H - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No				_						
					55	120 (65 7	7.5YR5/6				No	MSL - M	20		GH	H - Grave	with nor	n-porous (I	nard) ston	25		M	/loderate	NON - N	Non-call	No										
														1			1																				
1	7 TQ 64432 803	323 564432 180323 23	3 ≤7																												1						12-062
					- 1																																
					- 1																																
H	END				+																																
					1						1	1	1											1							1						0.0

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC III

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel
13D	C629 LTC ALCSP	213D			13D
	_		,		
Date of Survey	Survey Type		Surveyor(s)		mpany
15/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	vegetation
Dry, sunny		Level		LEY (Ley Grass	_
<u></u>			<u> </u>	Tana a	T.
Grid Reference			Postcode	Altitude	Area
TQ63737992			RM16 3AH	26	26.60000038
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
554	1469	125	123	101	1
	1403	123	123	101	+
Bedrock			Superficial depo	sits	
Thanet Formation	-		Boyn Hill Gravel	Member	
			1		
Soil association(s) 1	L:250,000		Detai	iled soil information	
Hucklesbrook			None	!	
Revision Number			Date Revised		
1			15/03/2019		

Grid ref. NGR X Y Alt (m) SIC	Slope O Aspect Land use	Depth (cm	m) Matrix Ochreous Mottle Thick Munsell colour Form Munsell colou	es Grey Mottles Gle	ley Text	ure Stones - typ	e1	Stones - type 2 % > 2cm > 6cm Type	Ped Strongth Sing Shopp	SUBS S	TR CaCO3	3 Mn C SPL	L Drou	ught Wet	t limitation	Final ALC 1 Limitation 2 Limitation 3	Crada	Profile notes	Client
Q 63731 79922 563732 179923 26 ≤7	.7	0 10 1		Ji Torrii Murisen colour	MSL	- Medium sandy loam	туре	76 2 ZCIII 2 OCIII Type	Strength Size Shape	+	-	+	-108 -10		JW Cillitation 2	1 Elilitation 2 Elilitation 3	Non-Ag	+	12-011
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								1											
							l	1											
							l	1											
TQ 63706 80025 563707 180026 26 ≤7	7	0 10 1	10		MSL	- Medium sandy loam							-108 -10	J6 4			Non-Ag		12-022
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TQ 63749 80141 563750 180141 27 ≤7	,	0 10 1	10		MSL	- Medium sandy loam		1					-108 -10	J6 4			Non-Ag		12-035
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								1											
								1											
TO 62621 90122 562622 190122 27		0 10	10		MEI	Madium condulorm					_	+	100 1	06.4			Non An		12.026
TQ 63631 80122 563632 180123 27 ≤7	·	0 10 1	10		MSL	- Medium sandy loam		1					-108 -10	<i>1</i> 6 4			Non-Ag		12-036
							I.	ĺ								!			
							I.	ĺ								!			
								1											
TQ 64131 80223 564132 180223 23 ≤7	7	0 26	36 10YR3/3	No.	IO MSI	- Me 2 1	UP - All	hard rocks or stones (i.e. those	which cannot be recatched u	wit Not An	nnlic VSC - V	Vallo N	0 -24 -7	19 2h WCI	1 Droughtine	orr	2h		12-049
10 04131 00223 304132 100223 23 37	3	36 44 8	8 7.5YR3/3	No	lo MSL	- Me 0	HR - All h	hard rocks or stones (i.e. those	which cannot be scratched w	wi Modera	rate VSC - V	VeNo No	0	, 30 WC1 1	. Di ougnitine.	33	30		12-045
	ľ	14 72 7	28 10YR4/4	No	lo LMS	- Loa 0	HR - All h	hard rocks or stones (i.e. those	which cannot be scratched w	vi Modera	ate VSC - V	√eNo No	,			ļ			
	[ı									ļ			
	1						I									ļ			
TQ 64031 80223 564032 180223 22 ≤7	.7	n 35	35 10YR3/3	Nr	in MSI	- Me 2 1	HR - All	hard rocks or stones (i.e. those	which cannot be scratched v	wi Not Ap	nnlic VSC - \	VeNo Nr	n -37 -3	an 3b WCI	1 Droughtine:	PCC	3b	+	12-050
	3	35 40 5	5 7.5YR3/3	No	lo MSL	- Me 0	HR - All h	hard rocks or stones (i.e. those	which cannot be scratched w	wi Modera	rate VSC - V	VeNo No	n			-			-
			30 10YR4/4 2 7.5YR5/6	No No	lo LMS	- Loa 0 - Med 0	HR - All I	hard rocks or stones (i.e. those hard rocks or stones (i.e. those	which cannot be scratched w	vi Modera	ate VSC - V	/eNo No	•			Į			
	ſ	0 /2 .	2 7.3183/0		J 10.5	Weed	1111	did focks of stones (i.e. t	//// carriot be services	/I IVIOGC.	die	A140				ļ			
	[ı	1								ļ			
TQ 63931 80223 563932 180223 25 ≤7	.7	0 38	38 10YR3/3	No		- Me 2 1	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Ap	oplic VSC - \	VeNo No	-34 -2	7 3b WCI 1	1 Droughtine:	ess	3b	augered to 70cm stone/gravel	12-051
	3	38 45 7	7 7.5YR3/3	No	lo MSL	- Medium sandy loam	1	1		Modera	rate VSC - V	VeNo No	0			Į		droughtiness limitation?	
	4	15 /u 2 70 72	25 10YR4/4 2 7.5YR5/6	No No		- Loamy medium sand - Medium Sand	1	1		Moder	ate VSC - v	VeNo No - NNo No	n			Į			
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TQ 63831 80223 563832 180223 25 ≤7		J 35	35 10YR3/4	No	o MSL	- Me 3 2	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Ap	oplic VSC - \	VeNo No	-10 -1/	6 3a WCI 1	1 Droughtine:	ess	За	+	12-052
			30 7.5YR3/3 5 7.5YR3/3	Yes No	es MSL	- Me 0 - Loa 0	HR - All h	hard rocks or stones (i.e. those hard rocks or stones (i.e. those	which cannot be scratched w	wi Modera	rate VSC - V	VeNo No	0			Į			
	ľ	70 100	30 7.5YR4/6	No		- Med 0	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Moder:	rate NON -	· NNo Nc	s			ļ			
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TQ 63731 80223 563732 180223 27 ≤7	7	0 10 1	10		MSL	- Medium sandy loam							-108 -10	J6 4		-	Non-Ag		12-053
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TQ 64231 80322 564232 180323 24 ≤7	7	0 10 1	10		MSL	- Medium sandy loam		<u> </u>					-108 -10	J6 4			Non-Ag		12-064
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TQ 64131 80322 564132 180323 24 ≤7	,	0 10 1	10		MSL	- Medium sandy loam	1	1					-108 -10	J6 4		Į	Non-Ag		12-065
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TQ 64031 80322 564032 180323 25 ≤7			38 10YR3/3 22 7.5YR3/3	No No	lo MSL	- Me 5 4 - Me 0	HR - All I	hard rocks or stones (i.e. those hard rocks or stones (i.e. those	which cannot be scratched w	vi Not App	plic VSC - V	/eNo No	-28 -19	# 3b WCI 1	1 Droughtine	ess	3b	gravel at 70cm difficult to auger	12-066
			10 7.5YR3/2	No	o LMS	- Los 0	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Moder:	rate NON -	· NNo Nc	د			ļ			
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TQ 63931 80322 563932 180323 24 ≤7		0 29 2 29 60 3	29 7.5YR5/6 31 7.5YR5/6	No No	lo MSL lo MSL	- Me 10		evel with non-porous (hard) stor evel with non-porous (hard) stor		Not App	pplic NON -	- NNo No - NNo No	o -5 -27	27 3a WCI 1	1 Droughtine:	ess	3a		12-067
			60 7.5YR5/6	No		- Me 50		evel with non-porous (hard) sto			rate NON -					!			
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								1											
								L											
TQ 63831 80322 563832 180323 24 ≤7			29 10YR4/2 31 7.5YR5/6		lo FSZL lo MSL	Fin 8 4 0		evel with non-porous (hard) stor evel with non-porous (hard) stor		Not Ap	nplic NON -	- NNo No - NNo No		13 3a WCI 1	1 Droughtine:	ess	За		12-068

Point Grid ref. Alt (m) Slope o Aspect Land use	Depth (cm) Matrix	Ochreous Mottles Grey Mottles Gley	Texture Stones - type 1	Stones - type 2	Ped	SUBS STR C	aCO3 Mn C S	Drought	Wet	Final ALC	Profile notes	Client
NGR X Y	Top Bttm Thick Munsell colour	Form Munsell colour Form Munsell colour	% > 2cm > 6cm T	ype % > 2cm > 6cm Type				MBw MBp G	d WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade		Ref.
	60 120 60 7.5YR5/6	No	MSL - Me 50	H - Gravel with non-porous (hard) ston	nes	Moderate N	ION - NNo N	lo				
15 TQ 64032 80422 564032 180423 25 ≤7	0 33 33 7.5YR3/4			IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi				WCI 1	Droughtiness 3b	gravel at 60cm difficult to auger	12-072
	33 40 7 7.5YR3/2		MSZL - Medium sandy silt loam				ION - NNo N	lo			60cm+; 2 attempts to auger below	'
	40 55 15 7.5YR3/3		FSL - Fine sandy loam			Moderate S		10			30cm	
	55 60 5 5YR4/3	No I	HCL - Clay loam (heavy)			Moderate S	C - Slig No N	lo				
												_
16 TQ 63932 80422 563932 180423 24 ≤7	0 30 30 10YR4/2			IR - All hard rocks or stones (i.e. those v					WCI 1	Droughtiness 3a	IMP: at 60cm, assume gravel, >70%	6 12-073
	30 55 25 10YR4/4			IR - All hard rocks or stones (i.e. those v				lo			HR and stop rooting at 80cm?	
	55 60 5 10YR4/4			IR - All hard rocks or stones (i.e. those v			ION - NNo N	lo				
	60 80 20		FSZL - Fin 75 F	IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi	Moderate	N	lo				
												4
17 TQ 63832 80422 563832 180423 24 ≤7	0 30 30 10YR4/2			R - All hard rocks or stones (i.e. those v					WCI 1	Droughtiness 4	IMP: at 40cm, assume gravel, >70%	612-074
	30 40 10 10YR4/3			R - All hard rocks or stones (i.e. those v							HR and stop rooting at 60cm?	
	40 60 20	No	MSZL - M 75 F	IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi	Moderate	No N	lo .				
												_
18 TQ 63931 80523 563932 180523 24 ≤7	0 30 30 10YR4/2			IR - All hard rocks or stones (i.e. those v					WCI 1	Droughtiness 3b	IMP: at 55cm, assume gravel, >70%	6 12-079
	30 50 20 7.5YR4/5	No I		IR - All hard rocks or stones (i.e. those v				lo			HR and stop rooting at 75cm?	
	50 55 5 7.5YR4/5			IR - All hard rocks or stones (i.e. those v			ION - NNo N	lo				
	55 75 20		MZCL - Si 75 F	IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi	Moderate	l l	lo				
	1											
	1											
											1	4
END	I		J	l l	I .	1 1	1 1		1		- I	1

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC V

WC VI

ALC Grade

1

2 3a

> 3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13F	C629 LTC ALCSF	213F			13F
Date of Survey	Survey Type		Surveyor(s)		mpany
15/04/2019			RA	ASI	KEW LAND AND SOIL
Weather		Relief		Land use and	vegetation
Dry, Sunny		Level		LEY (Ley Grass	_
[a.i.a.f				Tana a	т.
Grid Reference			Postcode	Altitude	Area
TQ6351804			RM16 3LP	25	39.40000153
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Floos Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
557	1470	125	123	101	1
	1		<u></u>	1-2-	
Bedrock			Superficial depo	sits	
Thanet Formation			Boyn Hill Gravel	Member	
Soil association(s) 1	1:250,000			iled soil information	
Hucklesbrook			None	2	
Revision Number			Date Revised		
1			15/03/2019		

NGR X	Alt (m)	Slope °	Aspect Land us	Ton Ir	ttm Thi	k Munsell co	lour Form	Munsell colo	ur Form M	funsell colour	Gley	exture	% > 2cm	> 6cm Tvn	e «	Stones - type 2 > 2cm > 6cm Type	Strength Size S	hape	B2 21K Cac	.03 Mn	C SPL MR	w MRn	id WC	Gw	Limitation 1 Limita	tion 2 Limitation	3 Grade	Profile notes	Client Ref.
TQ 63531 80422 563532	180423 25	≤7		0 1	0 10						,	MSL - Med	lium sandy lo	am	TÎ						-10	8 -106	1		- I - I		Non-Ag		12-076
FQ 63431 80422 563432	180423 26	≤7		0 3	0 30	10YR4/2 7.5YR4/4					No L	MSL - Me i	25 11	6 HR	- All ha	rd rocks or stones (i.e. those or rocks or stones (i.e. those	which cannot be scratch	hed wi No	t Applic NO	N - NNo	No -60	-58 4	WCI	1	Droughtiness		4	IMP: at 70cm, assume gravel, >70: HR and stop rooting at 90cm? 3a	
				45 6 60 7	0 15	7.5YR4/6 7.5YR4/6					No L	MS - Loa MS - Loa MS - Loa	20 50	HR HR	- All ha - All ha	rd rocks or stones (i.e. those rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratch	hed wi Mo	derate NO	N - NNo	No							TS stone, 3b drought?	
2 63331 80422 563332	180423 25	≤7		30 4	5 15	10YR3/3 10YR3/3 5YR4/4					No N	uSL - Med	3 lium sandy lo loam (heavy)	am	- All ha	rd rocks or stones (i.e. those	which cannot be scratch	Mo	t Applic NO oderate NO oderate NO	N - NNo	No	ı -6 3	Bb WCI	1	Droughtiness		3b	Flinty gravel at 70cm +	12-078
Q 63424 80514 563425	180514 26	≤ 7				10YR4/2						VISZL - M S	5	HR	- All ha	rd rocks or stones (i.e. those	which cannot be scratcl	hed wi No	t Applic NO	N - NNo	No -5	-3 :	la WCI	1	Droughtiness		За	IMP: at 75cm, assume gravel, >70	% 12-083
				55 7 70 7	0 15	10YR4/4 7.5YR4/5 7.5YR4/5					No M	SZL - Fin S VISZL - M 4 VISZL - M 7 VISZL - M 7	10 70	HR HR	- All ha - All ha	rd rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or	which cannot be scratch which cannot be scratch	hed wi Mo hed wi Mo	oderate NO oderate NO	N - NNo	No							HR and stop rooting at 95cm? 2/3a drought?	
63331 80522 563332	180523 27	≤7		38 5	0 12	10YR3/3 7.5YR4/4 7.5YR4/4					No N	SL - Fine MSZL - Me MSZL - Me	3 2 dium sandy s dium sandy s	HR iilt loam iilt loam	- All ha	rd rocks or stones (i.e. those	which cannot be scratch	hed wi No Mo	t Applic NO oderate NO oderate NO	N - NNo N - NNo N - NNo	No -16 No No	i -2 :	a WCI	1	Droughtiness		3a	difficult to auger 70cm gravel	12-084
Q 63234 80492 563235	180492 25	≤7		0 3	5 35	10YR4/3 10YR4/6					No. I	SZL - Fin 8	3 3	HR	- All ha	rd rocks or stones (i.e. those or stones (i.	which cannot be scratch	hed wi No	t Applic NO	N - NNo	No -7	-6 3	la WCI	1	Droughtiness		3a	IMP: at 70cm, assume gravel, >70: HR and stop rooting at 90cm?	
				50 6 60 7	0 10	10YR4/6 10YR4/6					No F	SZL - FINS MSZL - M MSZL - M	50 70	HR HR	- All ha - All ha	rd rocks or stones (i.e. those rd rocks or stones (i.e. those rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratch which cannot be scratch	hed wi Mo hed wi Mo	oderate NO oderate NO	N - NNo	No No							3a/b drought?	
Q 63431 80623 563432	180623 27	≤ 7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4	1				Non-Ag		12-093
Q 63331 80623 563332	180623 27	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4	1				Non-Ag		12-094
Q 63231 80623 563232	180623 27	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101	ı				Non-Ag		12-095
0 63131 80623 563132	180623 25	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101	1				Non-Ag		12-096
0 63331 80722 563332	180723 27	£7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4					Non-Ag		12-105
Q 63231 80722 563232	180723 27	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4	ı				Non-Ag		12-106
A 62121 90722 F626-	190722 25	-7			0 4-							C71 - C71	and the									2 101					No. 1		13.40-
Q 63131 80723 563132	160/23 25	5/		U 1	0 10						F	SZL - FINE	sandy silt loa	arri							-10.	3 -101 4					Non-Ag		12-107
Q 63031 80723 563032	400722 22																					2 404							
7 02021 80/53 263035	160723 22	5/		0 1	0 10							ozt - Fine	sandy silt loa	1111							-10	3 -101 4	·				Non-Ag		12-108

	Grid i	ef.	1	1		Dent	th (cm)	Matrix	Ochre	eous Mottles	Grey Mo	ottles			Stones	s - type 1	Stones	s - type 2	1	Ped			-	Drought	Wet	Final ALC		Client
Point	NGR)	Y	Alt (m)	Slope °	Aspect Land use	e Top Bt	tm Thick	Munsell colour				Il colour G	Sley T	Texture % >	2cm	> 6cm Type	% > 2cm	> 6cm Type			SUBS STR	CaCO3 Mr	n C SPI	MBw MBp Gd		Limitation 1 Limitation 2 Limitation 3 Grade	Profile notes	Ref.
	,	ŗ	'	ı	' '				1. 1											1					. ,.			
15	TQ 62931 80723 5	62932 1807	23 22	≤ 7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-109
16	TQ 63131 80822 5	63132 1808	23 30	≤7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-115
17	TQ 63031 80822 5	63032 1808	23 26	S 7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-116
18	TQ 62931 80823 5	62932 1808	23 26	£7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-117
19	TQ 62831 80823 5	62832 1808	23 27	S 7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-118
	TQ 62831 80922 5					0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-129
21	TQ 62731 80923 5	62732 1809	23 24	£7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-130
	END																		l									

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC V

WC VI

ALC Grado

1 2

3a

3b

4

5 Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13G	C629 LTC ALCSF	² 13G			13G
	,		,		
Date of Survey	Survey Type		Surveyor(s)		mpany
15/04/2019			RA	Asl	kew Land and Soil
Weather		Relief		Land use and	vegetation
Dry, Sunny		Level		LEY (Ley Grass	_
Grid Reference			Postcode	Altitude	Area
TQ66388052			RM16 3DB	24	22.79999924
MAFF prov		MAFF detaile	<u></u>	Flooding	
Grade 3		None	<u>u</u>	Flood Zone 1	
			_		
AAR	AT0	MDw	MDp	FCD	Climate grade
555	1471	125	123	101	1
Bedrock			Superficial depo	citc	
Lambeth Group			Boyn Hill Gravel	Member	
Soil association(s)	1:250,000		Detai	iled soil information	
Hucklesbrook			None	2	
D. M. M. M.			loui o i d		
Revision Number			Date Revised		
1			15/03/2019		

NGR X Y	Slope O Aspect Land use		m) Matrix Thick Munsell cold	Ochreous Mottles		Gley Te	exture Stones - type	Type	Stones - type 2	Z Ped Type Strength Size Shap	SUBS ST	R CaCO3	Mn C SPL	Drought MBw MBn (Gd WC Gw	Limitation 1 Limitatic	on 2 Limitation 3 Grade	Profile notes	Client Ref.
Q 63831 80523 563832 180523 24	≤7	0 30	30 10YR3/2		- I om Iwansen colour		CL - San 5 4 1	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	WILLIAM WHI	PIIC NON - I	INIO INO	4 -14	3a WCI 1	Droughtiness	3a		12-080
			10 7.5YR3/2 60 7.5YR3/3				CL - Sandy cli 1 CL - Sandy cli 1			e. those which cannot be scratched e. those which cannot be scratched									
	· ·	+0 100 (JU 7.51R5/5			INU SC	.L - Salidy Ck 1	HK - All III	ard rocks or stories (i.e	. triose which carmot be scratched	williviouera	te SC - Sile	3 NO INO						
	Į.																		
	!																		
263731 80523 563732 180523 25	≤7	0 10 :	10			Sc	CL - Sandy clay loam							-108 -106	4		Non-Ag	g	12-081
	· ·																		
	· ·																		
	Į.																		
								1											
Q 64130 80630 564131 180631 24			32 10YR3/3		1		CL - San 5			e. those which cannot be scratched				-29 -22	3b WCI 1	Droughtiness	3b	IMP: at 68cm, assume gravel, >70%	6 12-086
			18 7.5YR4/4 10 7.5YR4/6			No M	AZCL - Si 3 - Clay 2			e. those which cannot be scratched e. those which cannot be scratched		non - 1 Non - 1						HR and stop rooting at 88cm?	
		60 68 8	8 7.5YR4/6			No C	- Clay 50	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wi Poor	NON - I							
		68 88 2	20			C	- Clay 75	HR - All h	ard rocks or stones (i.e	e. those which cannot be scratched	wi Poor		No						
						Ш			·										
264031 80622 564032 180623 24	≤7		30 10YR4/2 25 10YR5/4	-	T	No M	CL - San 5 1ZCL - Si 10	HR - All h	ard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App	olic NON - I	Non-cal No	-16 -17	3a WCI 1	Droughtiness	3a	IMP: at 85cm, assume gravel, >70%	6 12-087
			25 10YK5/4 25 7.5YR4/5				- Clay 2	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wi Poor	NON - I						HR and stop rooting at 105cm?	
		80 85 !	5 7.5YR4/6			No SC	C - Sand 30	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wir Poor	NON - I							
		85 105 2	20			20	C - Sand 75	HR - All na	ard rocks or stones (i.e	e. those which cannot be scratched	wit Poor		No						
						\perp													
Q 63931 80622 563932 180623 26	≤7		32 10YR4/3 18 10YR4/4			No FS	CL - San 3 SZL - Fin 2	HR - All ha	ard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App	olic NON - 1	Non-cal No	-21 -14	3b WCI 1	Droughtiness	3b	IMP: at 68cm, assume gravel, >70% HR and stop rooting at 88cm?	ة 12-088
		50 60 :	10 7.5YR4/6			No C	- Clay 1	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wir Poor	NON - I	No No					nn and stop rooting at ootin.	
		60 68 8	8 7.5YR4/6			No C	- Clay 50	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wir Poor		NNo No						
	!	68 88 2	20				- Clay 75	HK - An ne	ard rocks or stones (i.e	e. those which cannot be scratched	WILLOOL		No						
						\perp													
Q 63831 80622 563832 180623 26			30 10YR3/3 10 10YR3/3				SZL - Fin 3 3 CL - Sandy clay loam	HR - All ha	ard rocks or stones (i.e	e. those which cannot be scratched		plic NON - I ate NON - I		-22 -12	3b WCI 1	Droughtiness	3b		12-089
		40 50 :	10 7.5YR4/4			No H	ICL - Clay loam (heavy)	1			Modera	ate NON - I	No No						
		50 60	10 7.5YR4/4			C	- Clay	1			Modera	ite NON - I	Non-cal No						
	!																		
		- 20	: 21/02/2			4.4							-				21.		1
Q 63731 80622 563732 180623 27	≤7		30 10YR3/3 15 7.5YR3/2				ISZL - M 4 3 1 CL - Sandy clay loam	HR - Ali na	ard rocks or stones (i.e	e. those which cannot be scratched	Wif Not App Modera	ilic NON - r ate NON -	NNo No	-22 -6 :	3b WCI 1	Droughtiness	30		12-090
		45 60 :	15 7.5YR4/4			No H	ICL - Clay loam (heavy)	1			Modera	ate NON - I	NNo No						
		60 70 :	10 5YR4/4			C	- Clay	1			Modera	te NON - I	Non-cal No						
	!																		
Q 63635 80633 563636 180633 27		2 10	10			44	27C: Cilturalar Inom (modiu	1					\bot	-106 -104 4			Non A		12.001
1 63635 80633 563650 100055 Zr	5/	0 10 :	10			l ivi	MZCL - Silty clay loam (mediur	n)						-106 -104 -	*		Non-Ag	g	12-091
	!																		
	!																		
								1											
Q 64332 80748 564333 180748 22	7	n 28	28 10YR3/2		 	No FS	SZL - Fin 6	HR - All h	aard rocks or stones (i	e. those which cannot be scratched	wit Not And	nlicable	No No	24 -6	2 WCI 1	Droughtiness	2		12-097
(04332 00/40 304333 200/40 22		28 50 2	22 10YR5/3			No M	ACL - Cla 10	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wi Modera	ate	No No	24 0 .	2 WCI 1	Drougnances	ľ		12-05,
	!	50 120	70 10YR5/3	CD - C 7.5YR5/6	CD - C 2.5YR5/1	No H	ICL - Clar 16	HR - All h			wi Modera	ıte	No No						
									iaru rocks or stories (i.	e. those which cannot be scratched			1 1		1				
	ı							1111	lard rocks or stories (i.	e. those which cannot be scratched									
	1								lard rocks or stones (i.	e. those which cannot be scratched									
O 64731 80773 564737 180773 77						50						dic NON - I	Non-cal No	-2 -17	25 WCI 1	Droughtiness	3a	Augoral to 95cm Assume gravelly	12.098
Q 64231 80723 564232 180723 22		0 30 3 30 50 2	30 10YR4/3 20 10YR4/5		_	No M	CL - San 5 1ZCL - Si 5	HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App	ate NON - N	NNo No	-3 -17	3a WC I 1	Droughtiness		Augered to 95cm. Assume gravelly clay to 120cm, with c. 50% flints?	
Q 64231 80723 564232 180723 22		0 30 3 30 50 2 50 80 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5			No M	CL - San 5 1/2CL - Si 5 - Clay 3	HR - All ha HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor	1 - NON ate 1 - NON	NNO NO	-3 -17	3a WCI 1	Droughtiness		clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is	
<u>)</u> 64231 80723 564232 180723 22		0 30 3 30 50 2 50 80 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6			No M No C No SC	CL - San 5 1ZCL - Si 5 - Clay 3 C - Sand 5	HR - All ha HR - All ha HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor	1 - NON ate 1 - NON	NNo No	-3 -17	3a WCI 1	Droughtiness	3a	clay to 120cm, with c. 50% flints?	
2,64231 80723 564232 180723 22		0 30 3 30 50 3 50 80 3 80 95	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6			No M No C No SC	CL - San 5 1/2CL - Si 5 - Clay 3	HR - All ha HR - All ha HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor	1 - NON ate 1 - NON	NNO NO	-3 -17	3a WCI 1	Droughtiness	За	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is	
		0 30 3 30 50 5 50 80 3 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25			No M No C No SC C	CL - San 5 1ZCL - Si 5 - Clay 3 C - Sand 5	HR - All h HR - All h HR - All h HR - All h HR - All h	nard rocks or stones (i.e. nard rocks or stones (i.e. nard rocks or stones (i.e. nard rocks or stones (i.e.	e. those which cannot be scratched e. those which cannot be scratched t. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor	ate NON - I 1 - NON 1 - NON	NNO NO NNO NO NNO NO NO				3a 3a 3a 3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine.	
	s7	0 30 : 30 : 50 : 50 80	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4			No M No C No SC C	CL - San 5 AZCL - Si 5 - Clay 3 - Cand 5 - Clay 50 CL - San 3 AZCL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. nard rocks or stones (i.e.	those which cannot be scratched those which amnot be scratched those which amnot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor	NON - I NON - I NON - I plic NON - I	NO NO NO NO NO NO NO NO NO NO NO NO NO N	11 -13		Droughtiness Droughtiness	3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine.	
	হ্য	0 30 3 30 50 5 50 80 8 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4			No M No C No SC C	CL - San 5 17CL - Si 5 - Clay 3 C - San 5 - Clay 50 CL - San 3 17CL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. nard rocks or stones (i.e.	2. those which cannot be scratched be those which cannot be scratched to those which cannot be scratched be those which cannot be scratched those which cannot be scratched to those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor	plic NON - I NON - I NON - I NON - I NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13			3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
	হ্য	0 30 3 30 50 5 50 80 8 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4			No M No C No SC C	CL - San 5 AZCL - Si 5 - Clay 3 - Cand 5 - Clay 50 CL - San 3 AZCL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. nard rocks or stones (i.e.	those which cannot be scratched those which amnot be scratched those which amnot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor	NON - I NON - I NON - I plic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13			3a 3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
	হ্য	0 30 3 30 50 5 50 80 8 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4			No M No C No SC C	CL - San 5 17CL - Si 5 - Clay 3 C - San 5 - Clay 50 CL - San 3 17CL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. nard rocks or stones (i.e.	those which cannot be scratched those which amnot be scratched those which amnot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor	plic NON - I NON - I NON - I NON - I NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13			3a 3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
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1264131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR5/4 30 10YR5/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San S IZCL - Si S - Clay 3 - C - San G - C - San G - C - San B - CL - San B - CL - San B - CL - San B - CL - San B - CL - San S - Clay 2 - Clay 2 - San G - San G - San G - San S	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	2. those which cannot be scratched 3. those which cannot be scratched 4. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1		3a 3a 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
Q 64131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San 5 MZCL - Si5 MZCL - Si5 - Clay 3 C - Sand 5 Clay 50 CL - San 3 MZCL - Si 2 MZCL - Si 2 CL - San 0 SL - Find 5	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1	Droughtiness	3a 3a 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR5/4 30 10YR5/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San S IZCL - Si S - Clay 3 - C - San G - C - San G - C - San B - CL - San B - CL - San B - CL - San B - CL - San B - CL - San S - Clay 2 - Clay 2 - San G - San G - San G - San S	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	2. those which cannot be scratched 3. those which cannot be scratched 4. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1	Droughtiness	33	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR5/4 30 10YR5/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San S IZCL - Si S - Clay 3 - C - San G - C - San G - C - San B - CL - San B - CL - San B - CL - San B - CL - San B - CL - San S - Clay 2 - Clay 2 - San G - San G - San G - San S	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	2. those which cannot be scratched 3. those which cannot be scratched 4. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1	Droughtiness	3a 3a 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64231 80723 564232 180723 22 TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	s7 s7	0 30 5 30 50 5 80 95 1 95 120 0 0 36 5 55 85 1 85 120 1	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 AZCL - Si5 CCL - Si5 - Clay 3 CC - Sand 5 - Clay 50 CL - San 3 AZCL - Si 2 - Clay 2 - Clay 2 - Sand 0 SL - Fine 5 SL - Fine 5 SZL - Fine 4	HR - All hi HR - All hi	hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e.	2. those which cannot be scratched 2. those which cannot be scratched 3. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 6. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I plic NON - I NON - I NON - I NON - I	NNO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	33	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 7 1/2CL -	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness	333	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 10YR4/2 36 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 22 10YR4/2 22 10YR4/2			No	CL - San 5 IXCL - Si 5 IXCL - Si 5 IXCL - Si 5 IXCL - Si 5 IXCL - Si 5 IXCL - San 3 IXCL - San 3 IXCL - San 3 IXCL - San 3 IXCL - Si 2 IXCL - Si 2 IXCL - Si 3 IXC	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	3a 3a 2 2 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 7 1/2CL -	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	3a 3a 2 2 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 7 1/2CL -	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	33	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	<i>ជ</i>	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 4CL - San 5 4Clay 3 5 - Clay 3 5 - Clay 50 CL - San 3 4CL - Si 2 4CL - Si 2 4CL - Si 2 5L - Fins 5 SL - Fins 5	HR - All h HR - All h	hard rocks or stones (i.e. and rocks or stones (i.e.	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera wi Modera	plic NON - I plic NON - I non - I plic NON - I plic NON - I non - I plic NON - I plic NON - I plic NON - I ate NON - I plic NON - I ate NON - I ate NON - I	NNO	11 -13 : 58 -3 :	3a WCI 1	Droughtiness Droughtiness	3a 3a 2 2 2 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC continues same to 120cm	12-099

a tank	Grid ref.		Alt (m)		Aspect Land		Depth	(cm)	Matrix		Ochreous Mo	ttles	Grey Mottles	Clas	Texture		Stones - ty	rpe 1		Stones - type	2	Ped	CLIDE CT	R CaCO3	84m C C	CDI	Drought	W			Final ALC		Profile notes	CI
NGR	х	Y	Aut (m)) Slope ^c	Aspect Land (Top	Bttm	Thick	Munsell co	lour Fo	rm Munsell o	olour F	orm Munsell col	our		% > 2		m Type				Strength Size Sha	pe			MB		d WC	Gw	Limitation 1 Li	mitation 2 Limitation	n 3 Grade	riville notes	Re
	·	·		·		50	120	70	10YR4/6		•		·	No	FSZL - Fir	14		HR - A	ll hard roo	ks or stones (i.	e. those w	which cannot be scratched	wi Modera	te NON - N	No I	No					·			
TQ 63	3731 80723 5637	732 180723	27	≤7			45	15	10YR3/3 10YR3/2 7.5YR4/4					No No	SCL - Sar SCL - Sar SCL - Sar	idy clay lo idy clay lo	oam oam	HR - A	ll hard roo	ks or stones (i.	e. those w	which cannot be scratched	Modera: Modera:	te NON - N te NON - N	No I	No No	-21 3	b WCI	1	Droughtiness		3b		12
TQ 64	4431 80823 5644	432 180823	29	S 7		60	10		7.5YR4/6					No	MS - Me		andy silt lo	am					Modera	te NON - N	No 1		5 -104 4					Non-Ag		12
TQ 64	4331 80823 5643	332 180823	28	≤7			42	9	10YR3/3 10YR3/2 5YR4/4					No	MSZL - N MCL - Cl MCL - Cl	ay loam (ı		HR - A	ll hard roo	ks or stones (i.	e. those w	which cannot be scratched	Modera	lic NON - N te NON - N te NON - N	No I	No	-2 2	WCI	1	Droughtiness		2		1
TQ 64	4231 80823 5642	232 180823	28	≤7			40	5	10YR3/3 10YR3/2 5YR4/4					No No No	MSZL - N MCL - Cl: MCL - Cl:	ay loam (ı		HR - Al	ll hard roc	ks or stones (i.	e. those w	which cannot be scratched	Modera	lic NON - N te NON - N te NON - N	No I	No	-2 2	WCI	1	Droughtiness		2		1
TQ 64	4130 80804 5641	131 180804	26	≤7			40	10	10YR4/2 10YR4/3 7.5YR4/3					No	SCL - Sar SCL - Sar HCL - Cla	dy clay lo	oam	HR - A	ll hard roc	ks or stones (i.	e. those w	which cannot be scratched	Modera	lic NON - N te NON - N te NON - N	No I	No	-11 3	a WCI	1	Droughtiness		3a		1
TQ 64	4032 80787 5640	033 180788	27	≤7		78	40	40	5YR4/4 10YR4/2					No	MS - Me	dium San	1	HR - Al	Il hard roo	ks or stones (i.	e. those w	which cannot be scratched	Modera	te NON - N	No I	No -7	-13 3	a WCI	1	Droughtiness		3a		1
						60	80	20	7.5YR4/4 7.5YR4/4 7.5YR4/4					No	SCL - Sar SCL - Sar C - Clay	dy clay lo							Modera	te NON - N te NON - N te NON - N	No I	No								
TQ 64	4531 80922 5645	532 180923	31	≤7		0	10	10							MSZL - N	Medium sa	andy silt lo	am								-106	5 -104 4					Non-Ag		1
TQ 64	4432 80911 5644	433 180912	29	≤7		0	10	10							MSZL - N	Medium sa	andy silt lo	am								-106	5 -104 4					Non-Ag		1
END																																		

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC VI

ALC Grade

1

2 3a

> 3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13H	C629 LTC ALCSI	P13H			13H
Date of Survey	Survey Type		Surveyor(s)	Cor	npany
15/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	vegetation
Dry, Sunny		Level		LEY (Ley Grass)	
			_		
Grid Reference			Postcode	Altitude	Area
TQ63928086			RM16 3BA	27	31.10000038
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
557	1467	125	122	101	1
Bedrock			Superficial depo	sits	
Lambeth Group			Boyn Hill Gravel	Member	
Soil association(s) 1	1:250,000		Deta	iled soil information	
Hucklesbrook			None	<u> </u>	
			1		
Revision Number			Date Revised		
1			15/03/2019		

oint Grid ref.		. Denth	(cm) Matrix	Ochreous Mottles	Grey Mottles	L	Stones - typ	e 1 Stones - type 2	Ped		1	L. T	Drough	it Wet	Fina	I ALC	L
		Top Bttm	Thick Munsell colour	Form Munsell colour	Form Munsell colour Gley	Texture	% > 2cm > 6cm	type % > 2cm > 6cm Type	Strength Size Shape	SUBS STR	CaCO3	Mn C SP	MBw MBp	Gd WC Gv	v Limitation 1 Limitation 2	Limitation 3 Grade	Profile notes
TQ 63926 80866 563927 1808	866 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63826 80866 563827 1808	966 29 47	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
10 03020 00000 303027 1000	00 20 37	0 10	10			IVICE - CIO	y loani (medidin)						-107 -104	"		Non-Ag	
TQ 63734 80875 563734 1808	376 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 64232 80914 564233 1809)15 28 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63509 80922 563510 1809	022.26 67	0 10	10			MCI CI-	u loom (modius-)		1			\vdash	-107 -104	4		No- A-	
14 03503 80322 503510 1805	22 20 5/	0 10	10			IVICE - Cla	y loam (medium)						-107 -104	*		Non-Ag	
TQ 63431 80922 563432 1809	923 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
							,,										
TQ 64332 80949 564333 1809	349 28 ≤7	0 20	20 10YR4/2		Yes	MCL - Cla	1	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	Not Applic	SC - Slig	No No	-1 -6	3a WCI 1	Droughtiness	3a	Assumed no spl;
		20 40	20 10YR4/2	CD - C 10YR5/6	Yes	MCL - Cla	y loam (medium)			Moderate	SC - Slig	No No					
			12 10YR4/2				y loam (heavy) y loam (heavy)			Moderate Moderate							
		52 90	38 10YR4/4		NO	HCL - Cla	y ioam (neavy)			ivioderate	IVIC - IVI	NO NO	,				
TQ 64532 81029 564532 1810	J30 32 ≤7	0 40	40 10YR4/3			SCL - San	10	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	ith a finger	NON - N	Ion-calca	rec5 -22	3a WCI 1	Droughtiness	3a	IMP: at 90cm, have assumed s
		40 90	50 2.5Y5/5 30 2.5Y5/5		No No	SCL - San SCL - San	15	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	Moderate	NON - N	No No					content increases to 30% and continues same to 120cm. 2,
		90 120	30 2.313/3		INO	SCL - Sali	30	nk - All flatu focks of stories (i.e. those	William callifor be scratched w	iviouerate	NON - IV	INO INC	,				drought?
TQ 63431 81022 563432 1810	022.25 <7	0 10	10			MCI Cla	y loam (medium)			-		-	-107 -104	4		Non-Ag	
10 03431 01022 303432 1010	.23 23 5/	0 10	10			IVICE - Cla	y loani (medidin)						-107 -104	*		Non-Ag	
		1			1				1	1							Ì
															1	J	
TQ 63331 81022 563332 1810	23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810	123 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810)23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810)23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810)23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
		0 35	35 10YR4/3			MSZL - M	10	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	ith a finger	NON - N	lon-calca	rec-19 -33		Droughtiness	Non-Ag	IMP: at 100cm, assume grave
		0 35 35 70	35 10YR4/3 35 5Y5/5		No	MSZL - M LMS - Loa	10 10	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	Moderate	NON - N	No No	rec-19 -33		Droughtiness		continues same to 120cm. 3
		0 35 35 70 70 90	35 10YR4/3 35 5Y5/5 20 5Y5/5		No No	MSZL - M LMS - Loz LMS - Loz	10 10 20	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	i Moderate i Moderate	NON - N	No No	rec-19 -33		Droughtiness		IMP: at 100cm, assume grave continues same to 120cm. 3a drought?
		0 35 35 70 70 90	35 10YR4/3 35 5Y5/5		No No	MSZL - M LMS - Loa	10 10 20	HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	i Moderate i Moderate	NON - N	No No	rec-19 -33		Droughtiness		IMP: at 100cm, assume gravel continues same to 120cm. 3a drought?
		0 35 35 70 70 90	35 10YR4/3 35 5Y5/5 20 5Y5/5		No No	MSZL - M LMS - Loz LMS - Loz	10 10 20	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	i Moderate i Moderate	NON - N	No No	rec-19 -33		Droughtiness		continues same to 120cm. 3a
TQ 63331 81022 563332 1810	074 32 ≤7	0 35 35 70 70 90 90 120	35 10YR4/3 35 5Y\$/5 20 5Y\$/5 30 5Y5/5		No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate i Moderate i Moderate	NON - N NON - N	No No No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought?
	074 32 ≤7	0 35 35 70 70 90 90 120	35 10YR4/3 35 5Y\$/5 20 5Y\$/5 30 5Y\$/5		No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate i Moderate i Moderate i Not Applic	NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1			continues same to 120cm. 3a drought?
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - Fr10Y85/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought? Gravel stone present 40cm ar difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - F410YRS/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3: drought?
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - Fc10YRS/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3: drought? Gravel stone present 40cm ai difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - F¢10YR5/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought? Gravel stone present 40cm ar difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32	0 35 35 70 70 90 90 120 0 30 30 50 50 60	35 10YR4/3 35 5Y5/5 20 5Y5/5 30 5Y5/5 30 10YR4/3 20 10YR4/3 10 10YR5/4	FD - Fc10YR5/6	No No No	MSZL - M LMS - Loz LMS - Loz LMS - Loz SCL - San SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	-33 -35 -27	3b WCI 1		3b	continues same to 120cm. 3: drought? Gravel stone present 40cm ai difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5Y5/5 20 5Y5/5 30 5Y5/5 30 10YR4/3 20 10YR4/3 10 10YR5/4	FD - F4 10YR5/6	No No No	MSZL - M LMS - Loz LMS - Loz LMS - Loz SCL - San SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought? Gravel stone present 40cm ar difficult to auger 60cm + ston

Grid ref. Ab () Depth (cm) Matrix Ochreous Mottles Grey Mottles	Stones - type 1 Stones - type 2 Ped	Unc CTD Co COO A4 C CDD Drought Wet	Final ALC
oint NGR X Y Alt (m) Slope ° Aspect Land use Top Bittui Thick Munsell colour Form ey Texture Stories - type 1 Stories - type 2 Fed	UBS STR CaCO3 Mn C SPL MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade	
The property of the property o	The second state of the se		Elimaton 2 Elimaton 3 Orac
4 TQ 63231 81123 563232 181123 27 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
5 TQ63131 81122 563132 181123 25 ≤7 0 10 10	MC Contraction	-107 -104 4	No. 4
5 1(103131 81122 503132 181123 25 5/ 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
6 TQ 64832 81162 564833 181162 32 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
7 TQ 63231 81223 563232 181223 26 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
8 TQ 63131 81223 563132 181223 25 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
9 TQ 63131 81322 563132 181323 25 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
END END			
END			

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

 $WC\,V$

WC VI

ALC Grade

1 2

3a

3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
131	C629 LTC ALCS	SP13I			131
Date of Survey	Survey Type		Surveyor(s)		npany
15/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	_
Grid Reference			Postcode	Altitude	Area
TQ63038112			RM16 3NB	25	24.29999924
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
563	1470	124	122	102	1
Bedrock			Superficial depo	sits	
London Clay Forma	ition/Lambeth Gr	oup	Head/Boyn Hill (Gravel Member	
Soil association(s) 1	1:250,000		Detai	iled soil information	
Hucklesbrook/Wind	dsor		None	2	
<u> </u>			la . a		
Revision Number			Date Revised		
1			15/03/2019		

GR X Y Alt (m) Slope Aspect Lar	d use Depth (cm) Matrix Ochreous Mottles Gre Top Bttm Thick Munsell colour Form Munsell colour Form M	y Mottles unsell colour Gley Texture Stones - type 1 Stones - type 2 Ped w > 2cm > 6cm Type % > 2cm > 6cm Type Stones - type 2 Stones - type 2 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought We	et Final ALC Gw Limitation 1 Limitation 2 Limitation 3 Grade Profile notes	Client Ref.
Q 63031 81122 563032 181123 25 ≤7	0 30 30 7.5YR3/3 30 45 15 7.5YR3/4	No MCL - Clay loam (medium)	Moderate VSC - VeNo No	2 Droughtiness 3a red soil ; ; assume spl at 60cm; difficult to auger 70cm + stone; fig	12-150 g
	45 60 15 5YR3/3 60 70 10 5YR3/3	No MCL - Clay loam (medium) No C - Clay	Moderate VSC - V&No No Poor VSC - V&No Yes	8 used	
Q 62931 81122 562932 181123 25 \$7	0 35 35 10/R2/3 35 60 25 7.5/R3/3 60 80 20 7.5/R4/4	No MCL - Cla 2 1 1 HR - All hard rocks or stones (i.e. those which cannot be s No HCL - Clay loam (heavy) No C - Clay	cratched wil Not Applic VSC - V4 No No -12 -4 3a WC1 : Moderate VSC - V4 No No No	1 Droughtiness 3a difficult to auger 80cm stone	12-151
Q 62831 81123 562832 181123 26 <7	0 40 40 7.5YR3/3	No MCL - Cla 1 HR - All hard rocks or stones (i.e. those which cannot be s	scratched wil Not Applic SC - Slig No No 6 -3 2 WC II	2 Droughtiness Wetness 2 SPL assumed >75cm	12-152
	40 75 35 7.5/RA/3 75 100 25 5/RA/3	No MCL - Clay loam (medium) No C - Clay	Moderate SC - Slig No No Poor NON - NNo Yes		
0,62731 81123 562732 181123 25	0 30 30 7.5YR3/3 30 40 10 7.5YR3/3	No MCL - Clil 1 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - Sandy clay loam	cratched wi Not Applic SC - Slig No No -56 -54 4 WC1 : Moderate SC - Slig No No	1 Droughtiness 4 Stone at 40cm difficult to auger (50% stone content)	12-153
Q6263181122 562632 181123 25 ≤7	0 38 38 10YR3/2 38 50 12 SYR4/4 CD-C 10YR5/6	No MCL - Clal 3 2 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Not Applic NON - NO No -42 -40 3b WC III :	3a Droughtiness 3b assumed spl at 38cm and extending to 100cm; fig 7 used; red soil but no gleying	12-154
Q 63031 81223 563032 181223 24 s7	0 30 30 7.5YR4/3 30 38 8 7.5YR3/3 38 50 12 5YR4/4	No SCL - San 2 2 HR - All hard rocks or stones (i.e. those which cannot be s No MCL - Clay learn (medium) No C - Clay	cratched wi Not Applic SC - Slig No No -46 -44 3b WC III : Moderate SC - Slig No No Yes	3a Droughtiness 3b Assume apl at 38cm red soil; difficult to auger 50cm stone	12-164
1 62932 81222 562932 181223 24 ≤7	0 25 25 10YR4/2 25 70 45 10YR4/4 70 75 5 7.5YR4/5 75 95 20 7.5YR4/5	SCL - San 3 HR - All hard rocks or stones (i.e. those which cannot be s NO HCL - Clai 3 HR - All hard rocks or stones (i.e. those which cannot be s NO SC - Sand 50 HR - All hard rocks or stones (i.e. those which cannot be s NO SC - Sand 75 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Moderate NON - NNo No	1 Droughtiness 3a IMP: at 75cm, assume gravel, >70: HR and stop rooting at 95cm? 2/3a drought?	% 12-165
1,62831.81222.562832.181223.26 ≤7	0 25 25 10YR4/2 25 38 13 10YR4/4 38 48 10 10YR4/5 48 68 20 10YR4/5	SCL - San 8 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Moderate NON - NNo No	1 Droughtiness 4 IMP: at 48cm, assume gravel, >70' HR and stop rooting at 68cm? 3a/b drought?	% 12-166
.62731 81222 562732 181223 25 ≤7	0 30 30 10YR3/1 30 38 8 10YR3/4 38 42 4 10YR4/4	No SCL - Sanj 3 2 No MCL - Clay loam (medium) No HCL - Clay loam (heavy)	Not Applic VSC - Ve No No -55 -53 4 WC1 : Moderate NON - No No No Moderate NON - No No	Droughtiness 4 Stone present at 42 cm difficult to auger (50% stone content)	12-167
(62631 81223 562632 181223 25 ≤7	0 30 30 10YR4/3 30 35 5 10YR4/4 35 42 7 10YR4/4 42 62 20 10YR4/5	SCL - San 15 10 0 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wir Moderate NON - NNo No	Droughtiness 4 IMP: at 42cm, assume gravel, >70' HR and stop rooting at 62cm? 3b drought?	
.63031 81322 563032 181323 24 ≤7	0 25 25 10YR4/3 25 35 10 10YR4/4 35 40 5 10YR4/5 40 60 20 10YR4/5	SCL - San 10 5 0 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 55 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Moderate NON - NNo No	Droughtiness 4 IMP: at 40cm, assume gravel, >70' HR and stop rooting at 60cm?	<u>*</u> 12-173
162931 81323 562932 181323 24 ≤7	0 40 40 10YR3/3	No SCL - San 5 3 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Not Applic VSC - Ve No No -59 -57 4 WC1	Droughtiness 4 Difficult to auger 40cm due to stone50% stone content(?) droughtiness limitation	12-174
162831 81323 562832 181323 26 ≤7	0 30 30 10YR3/2 30 40 10 10YR3/2 40 70 30 7.5YR4/3 70 100 30 7.5YR5/3 CD-C 10YR5/6	NO MSL - Md 5 2 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - Sandy clay loam No SCL - Sandy clay loam Yes SCL - Sandy clay loam	cratched w Not Applic MC - M(No No 5 - 13 3a WC1 : Moderate SC - Slig No No Moderate SC - Slig No No Moderate SC - Slig No No	1 Droughtiness 3a gleyed 70cm+; no spl; groundwater?; topsoil msl/scl	12-175
Q 62731 81310 562732 181310 25 ≤7	0 35 35 10YR4/3 35 120 85 10YR4/4	MSZL - M8 3 0 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 10 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Not Applic NON - Non-cal No 21 -13 3a WC I :	1 Droughtiness 3a Augered to 100cm, assume continues same to 120cm. 2/3a	12-176

Grid ref.			Depth (c	m) M	1atrix	Ochreous Mottles	Grey Mottles	T	L .	Stones - to	ype 1	Stones - type 2	Ped	L				Drought	Wet	Final ALC	- 61	Client
NGR X Y	Alt (m) Slope	Aspect Land use T				Form Munsell colour	Form Munsell colour	Gley	Texture %	> 2cm > 6c	m Type	% > 2cm > 6cm Type	Strength Size	Shape	OBS STR	CaCO3 Mn	C SPL N	MBw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3 Gr		Ref.
																					drought?	
15 TQ 62531 81422 562532 181423	16 ≤7	4	0 42 12 43	42 10 1 10					HCL - Clay 6 C - Clay 30	5		ard rocks or stones (i.e. those lard rocks)).						52 -50 4	WCI 2	Droughtiness 4	broad beans; difficult to auger 43cm due to stone : no gleying above 40cm and assume no spl above 70cm	12-187
16 TQ 62531 81523 562532 181523	16 ≤7	2	0 20 20 50	20 10 30 7.		CD - C 10YR5/6			C - Clay C - Clay	2	HR - All I	nard rocks or stones (i.e. those	which cannot be sci			NON - NO NON - NO		52 -50 4	WC III 3b	Droughtiness 4	broad beans; ditch recently cleared; difficult to auger 50cm stone?	12-199
17 TQ 62531 81622 562532 181623	16 ≤7	3	38 0	8 10 52 10	0YR4/2	CD - C 10YR5/6 CD - C 10YR5/6 CD - C 10YR5/6		Yes Yes	C - Clay 3 C - Clay C - Clay C - Clay	2	HR - All I	ard rocks or stones (i.e. those	which cannot be sci	P. P.	Poor Poor	NON - NO NON - NO NON - NO NON - NYes	Yes Yes	17 -20 3a	WC III 3b	Wetness 3b	broad beans	12-210
18 TQ 62532 81736 562533 181737	14 ≤7		30 30 45 15 90		.5Y4/2	CD - C 10YR5/6 CD - C 10YR5/6		Yes	C - Clay C - Clay C - Clay		HR - All I	nard rocks or stones (i.e. those	which cannot be sco	P	Poor	NON - NO NON - NO NON - NO	Yes	19 -19 3a	WC III 3b	Wetness 3b	broad beans; spl at 30cm; topsoi dry/cracked 27/03/2019	12-22:
19 TQ 62431 81722 562432 181723	13 ≤7		20 50			CD - C 10YR5/6 MD - №10YR5/6		Yes	C - Clay C - Clay C - Clay		HR - All I	nard rocks or stones (i.e. those t	which cannot be sci	P	Poor	NON - NOO NON - NOO NON - NOO	Yes	38 -24 3b	WC III 3b	Droughtiness Wetness 3b	broad beans; difficult to auger 70cm + stone /drain?	12-222
ZO TQ 62531 81823 562532 181823	14 ≤7		80 40	10 10		FF - Fe10YR5/6 MD - 10YR5/6		Yes	C - Clay C - Clay C - Clay	1	HR - All I	aard rocks or stones (i.e. those	which cannot be sco	N	Moderate	NON - N NO NON - N NO NON - N NO	No	16 -16 3a	WCII 3a	Droughtiness 3a	broad beans ;	12-229
Z1 TQ 62431 81823 562432 181823	13 ≤7	2	0 20 20 100	20 10 80 10		CD - C 10YR5/6			C - Clay C - Clay	1	HR - All I	nard rocks or stones (i.e. those t	which cannot be sci			NON - NNO NON - NNO		16 -23 3a	WC III 3b	Droughtiness 3a	broad beans	12-230
END								+														

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC VI

ALC Crade

1

2 3a

> 3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13J	C629 LTC ALCSP	13J			13J
	•		1	-	
Date of Survey	Survey Type		Surveyor(s)		npany
15/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	_
			1		
Grid Reference			Postcode	Altitude	Area
TQ62638132			RM16 3NB	25	29.39999962
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
	T	T	T	T	T
AAR	AT0	MDw	MDp	FCD	Climate grade
566	1470	124	121	102	1
Bedrock			Superficial dep	nosits	_
London Clay Forma	ntion		Head	103113	
London Clay Forma	ition		пеаи		
Soil association(s)	1:250,000		Det	ailed soil information	
Windsor/Hucklesb	rook		Nor	ne	
Davisian Number			Data Basis a		
Revision Number			Date Revised		
_1			15/03/2019		

NGR X Y Alt (m) Slope	Aspect Land use Depth (cm	cm) Matrix	Ochreous Mottles our Form Munsell colour		Gley	Texture Stones - ty	ype 1	Stones - type 2 Ped % > 2cm > 6cm Type Strength Size Shape	SUBS ST	/R CaCO3	Mn C SPL	Drought Wet	Final ALC Limitation 1 Limitation 2 Limitation	an 2 Grado	Profile notes	Client
TQ 62631 81322 562632 181323 25 ≤7	TOP BLUIT	30 10YR3/2	FUTIII IMIGIISEII COIGG	FOITH INIUISEN COICU.	No	SCL - San 25 20 1	HR - All	hard rocks or stones (i.e. those which cannot be scratched w	with a finge	er i NON - N	No No -1	-85 -82 4 WC I 1	Droughtiness	Il 3 Graue	4	12-177
TQ 63031 81422 563032 181423 24 ≤7		27 7.5YR4/2 43 7.5YR5/4	-		No S	SCL - San 12 6 1 SCL - San 18	HR - All	I hard rocks or stones (i.e. those which cannot be scratched w avel with porous stones (mainly soft stone types listed above)	vi Not App	1 - NON ote	No No -7	2 -24 3a WCI 1	Droughtiness	За		12-182
		50 7.5YR5/6				C - Clay 20		ravel with non-porous (hard) stones		ate NON - N						
			<u></u> .						l				<u></u>			
TQ 62931 81422 562932 181423 24 ≤7		32 7.5YR3/2 8 7.5YR4/1				MSL - Me 18 8 2 MSL - Me 20		hard rocks or stones (i.e. those which cannot be scratched w ravel with non-porous (hard) stones	vi Not App Modera	plic NON - N ate NON - N	No No 7	7 -29 3a WCI 1	Droughtiness	3a	3a drought?	12-183
		80 7.5YR4/2			No I	MSL - Me 20		avel with non-porous (hard) stones	Modera	ate NON - N	No No					
]
TQ 62831 81422 562832 181423 26 ≤7	30 60	30 7.5YR3/2 30 7.5YR6/3			No S	SCL - San 20 11 SCL - San 18	GS - Gra	hard rocks or stones (i.e. those which cannot be scratched w avel with porous stones (mainly soft stone types listed above	e) Moderat	ate NON - N	No No	8 -27 3a WCI 1	Stoniness	3b	3b stones	12-184
	60 120	60 7.5YR6/3			No (C - Clay 20	GH - Gra	ravel with non-porous (hard) stones	Moderat	ate NON - N	No No					
	0 33	-3 40VD3/3					'ID All		TATIN AND	··· NON I	No. 2	25 25 WCL 1		20		12 105
TQ 62731 81423 562732 181423 25 ≤7	32 70	32 10YR3/2 38 10YR5/6			No S	MSL - Me 16 8 SCL - San 20	GS - Gra	hard rocks or stones (i.e. those which cannot be scratched wavel with porous stones (mainly soft stone types listed above)	e) Moderat	ate NON - N	NNo No	25 3a WCI 1	Droughtiness Stoniness	3a	3a stones	12-185
	70 120 !	50 10YR6/4			No S	SCL - San 25	GH - Gra	ravel with non-porous (hard) stones	Moderat	ate NON - N	No No					
TQ 62631 81423 562632 181423 19 ≤7	0 21	21 10YR3/2			No	MSL - Me 25	HR - All	l hard rocks or stones (i.e. those which cannot be scratched w	··· Not Ann	-lic MON - [No -	0 -25 25 WC II 1	Stoniness	3h	3b stones	12-186
IQ 62631 81423 562632 101423 19 2/	21 50	29 10YR586			No S	SCL - San 25	GS - Gra	avel with porous stones (mainly soft stone types listed above	e) Moderat	ate NON - N	NNo No	9 -35 3D WCII 1	Stoniness	36	3b stones	12-100
	50 120	70 10YR6/4			No S	SCL - San 30	GH - Gra	ravel with non-porous (hard) stones	Moderat	ate NON - N	No No					
TQ 63131 81523 563132 181523 18 ≤7	0 30	30 10YR4/3			+	SCL - San 4	HR - All	hard rocks or stones (i.e. those which cannot be scratched w	wit Not Apr	nlic NON - I	Non-cal No 4	4 -18 3a WCIII 3a	Droughtiness Wetness	За	Augered to 100cm, assume	12-193
100313101323 300132 202323 20	30 50 2	20 2.5Y6/2 25 2.5Y6/2	CP - Cc7.5YR5/6		Yes	SCL - Sandy clay loam	His em	Hard focks of stories (i.e. those when connot so se	Moderat	ate NON - N	NYes No	-10 38	Diougnaniess wearess	36	continues same to 120cm.	12-25-
		25 2.5Y6/2 45 2.5Y6/2	CP - Cc7.5YR5/6 MP - N10YR5/6		Yes (HCL - Clay loam (heavy) C - Clay			Poor Poor	NON - N	NYes Yes NYes Yes					
TQ 63031 81523 563032 181523 19 ≤7	0 26	26 10YR4/2			++	C - Clay 8 3	HR - All	I hard rocks or stones (i.e. those which cannot be scratched w	wit Not App	nlic NON - I	Non-cal No -	-24 -25 3b WC III 3b	Droughtiness Wetness	3b	IMP due to stones at 90cm.	12-194
10,000======	26 50 2	24 2.5Y6/4 20 2.5Y6/3	CP - Cc7.5YR5/6 MP - N7.5YR5/6		Yes (C - Clay 5 C - Clay 2	HR - All	I hard rocks or stones (i.e. those which cannot be scratched w I hard rocks or stones (i.e. those which cannot be scratched w	wi Poor	NON - N	NYes Yes					
		20 2.5Y6/3 20 5Y6/3	CP - C(10YR5/6		Yes S	SC - Sand 3		hard rocks or stones (i.e. those which cannot be scratched w hard rocks or stones (i.e. those which cannot be scratched w		NON - N						
TQ 62931 81523 562932 181523 19 ≤7		28 10YR4/2		+	++	C - Clay 15 8 2	HR - All	I hard rocks or stones (i.e. those which cannot be scratched w	wi Not App			-6 -26 3a WC III 3b	Wetness	3b	Augered to 80cm. SS is plastic C,	12-195
	28 50 2	22 10YR5/4 70 10YR5/4	CF - Cc10YR5/6 CF - Cc10YR5/6		No 0	C - Clay C - Clay			Poor Poor	NON - N	Non-cal No Non-cal No				but has 10YR5/4 colour so not strictly gley matrix colour. It is	
		70,													likely to be SPL, hence WCIII, 3b.	
TQ 62832 81522 562832 181523 19 ≤7		28 10YR4/2		+		C - Clay 10 5 2	HR - All	hard rocks or stones (i.e. those which cannot be scratched w	wi Not App	1 - NON silq	Non-cal No	-4 -24 3a WC III 3b	Wetness	3b	Augered to 80cm, assume plastic C	. 12-196
		22 2.5Y5/3 70 10YR5/3	CP - Cc10YR5/6 CP - Cc7.5YR5/6	FP - Fe 2.5Y6/1		C - Clay 1 C - Clay 1		I hard rocks or stones (i.e. those which cannot be scratched w I hard rocks or stones (i.e. those which cannot be scratched w			Yes Yes Yes Yes				continues to 120cm	
TQ 62731 81522 562732 181523 19 ≤7		28 10YR4/2		+		C - Clay 8 5 2	HR - All	hard rocks or stones (i.e. those which cannot be scratched w				4 -16 3a WC II 3a	Droughtiness Wetness	3a	Augered to 80cm, assume plastic	12-197
	28 50 5 50 120	22 10YR5/5 70 2.5Y6/3	FF - Fe10YR5/6 MP - N10YR5/8			C - Clay C - Clay			Moderat Poor	NON - N	NYes No NYes Yes				clay continues to 120cm	
TQ 62631 81522 562632 181523 19 ≤7		28 10YR4/2	CO. C. ADVDE /C	+		C - Clay 8 4 1	HR - All	hard rocks or stones (i.e. those which cannot be scratched w	vi Not App			2 -22 3a WC III 3b	Wetness	3b	Augered to 60cm, assume plastic C	12-198
	28 120 5	92 2.5Y6/3	CP - Cc10YR5/6		Yes	C - Clay			Poor	NON - N	Non-cal Yes				continues to 120cm	
TQ 62831 81623 562832 181623 19 ≤7		35 10YR4/2 85 10YR5/3		+	1	C - Clay 8 5		hard rocks or stones (i.e. those which cannot be scratched w		olic NON - N	Non-cal No -	2 -22 3a WC III 3b	Wetness	3b		12-207
	35 120 7	85 10YR5/3	CD - C 10YR5/6		Yes	C - Clay 3	HR - AII	hard rocks or stones (i.e. those which cannot be scratched w	vit Poor	NON - N	NYes Yes				continues to 120cm.	
					+	C Class Q E	LID All	hard rocks or stones (i.e. those which cannot be scratched w	wi Not Apr	E NON I		2 22 2e MC III 2b	Wetness	3h	Augered to 60cm, assume plastic C	12-208
TQ 62731 81623 562732 181623 19 ≤7	0 30 .	30 10YR4/2		1	1 8	C - Clay 8 5				ALIGNON - I						

$ \begin{array}{c c} \text{Point} & & & \\ \hline \text{Point} & & & \\ \hline \text{NGR} & & X & Y \\ \hline \end{array} & \begin{array}{c c} \text{Alt (m)} & \text{Slope} \\ \end{array} \\ \end{array} $	Aspect Land use Depth (c) Top Bttm	m) Matrix Thick Munsell colour	Ochreous Mottles Form Munsell colour	Grey Mottles Form Munsell colour	-Gley Te	Stones - type 1 Stones - type 1 Stones - type Stones -	Stones - type 2 % > 2cm > 6cm Type	Ped Strength Size Shape	SUBS STR	CaCO3 Mn (SPL Dro	ught MBp Gd	Wet WC Gw	Final ALC Limitation 1 Limitation 2 Limitation 3	Grade	Profile notes	Client Ref.
15 TQ 62631 81622 562632 181623 19 ≤7	30 38 38 70	30 10YR4/2 8 10YR3/3 32 10YR5/6 2 10YR4/2	CD - C 10YR5/8		No H	IZCL - Si 5 4 HR - A CL - Clay 1 - Clay - Clay	All hard rocks or stones (i.e. those	which cannot be scratched w	Moderate Poor	C NON - N NO VSC - Ve No NON - N No NON - N No	No Yes	12 3b	WC III 3a	Droughtiness	3b		12-209
16 TQ 62731 81722 562732 181723 14 ≤7	35 50	35 10YR4/2 15 2.5Y5/3 70 2.5Y6/3	CD - C 10YR5/6 CP - C(10YR5/6	CD - C 2.5Y6/2	C Yes C Yes C	- Clay	All hard rocks or stones (i.e. those	which cannot be scratched w	Poor	NON - Non-c NON - NYes NON - NYes	Yes	19 3a	WC III 3b	Wetness	3b	Augered to 70cm, assume plastic C continues to 120cm	12-219
17 TQ 62631 81723 562632 181723 14 ≤7	0 35 35 120	35 10YR4/2 85 2.5Y5/2	CP - Cc10YR5/6		C Yes C	- Clay 5 HR - A	All hard rocks or stones (i.e. those	which cannot be scratched w	ii Not Applii Poor	NON - Non-c	al No 1 -	19 3a	WC III 3b	Wetness		Augered to 60cm, assume plastic clay continues to 120cm	12-220
18 TQ 62731 81822 562732 181823 14 ≤7	0 38 38 120	38 10YR4/2 82 10YR4/4				- Clay 3 HR - A	All hard rocks or stones (i.e. those	which cannot be scratched w		c NON - Non-c VSC - Very sli		7 2	WCI 3a	Wetness		Augered to 70cm where IMP. Very dry and dense throughout. 3a TS texture	12-227
19 TQ 62631 81822 562632 181823 14 ≤7		35 10YR4/2 85 2.5Y5/3	CP - C(10YR5/6		C Yes C		All hard rocks or stones (i.e. those	which cannot be scratched w		NON - Non-c NON - NYes		17 3a	WC III 3b	Wetness	3b	Augered to 70cm, assume clay continues to 120cm	12-228
20 TQ 62816 81926 562817 181927 12 ≤7		25 10YR4/2 95 2.5Y6/3	CP - C(10YR5/6	CD - C 2.5Y6/1	Yes C		All hard rocks or stones (i.e. those			NON - Non-c NON - NYes		21 3a	WCIII 3b	Wetness	3b	Augered to 60cm, assume plastic C continues to 120cm	12-235
21 TQ 62731 81923 562732 181923 10 ≤7		28 10YR4/2 92 2.5Y5/3	CP - Cc10YR5/6	CD - C 2.5Y6/1			All hard rocks or stones (i.e. those All hard rocks or stones (i.e. those			NON - Non-c NON - NYes		21 3a	WC III 3b	Wetness	3b	Augered to 60cm, assume plastic C continues to 120cm	12-236
22 TQ 62631 81923 562632 181923 10 ≤7	35 50	35 10YR4/2 15 2.5Y5/3 70 2.5Y6/3	FD - F¢10YR5/6 CP - C¢7.5YR5/6		Yes C Yes C	- Clay	All hard rocks or stones (i.e. those	which cannot be scratched w	i Not Appli Poor Poor	c NON - Non-c NON - NYes NON - NYes	Yes	17 3a	WCII 3a	Droughtiness Wetness		Augered to 70cm, assume C continues to 120cm. Gley and SPL from 50cm.	12-237
23 TQ 62731 82022 562732 182023 12 ≤7		34 10YR4/2 86 2.5Y5/3	CP - C(10YR5/6		Yes C	- Clay 1 HR - A	All hard rocks or stones (i.e. those	which cannot be scratched w		c NON - Non-c NON - NYes		17 3a	WC III 3b	Wetness	3b	Augered to 70cm, assume plastic C continues to 120cm	12-239
24 TQ 62631 82023 562632 182023 10 <7		28 10YR4/2 92 2.5Y5/3	CP - Cc10YR5/6		Yes C		All hard rocks or stones (i.e. those	which cannot be scratched w		c NON - Non-c NON - NYes		19 3a	WCIII 3b	Wetness	3b	Augered to 70cm, assume plastic C continues to 120cm	12-240
25 TQ 62731 82123 562732 182123 11 ≤7		28 10YR4/2 92 2.5Y5/3	CD - C 10YR5/6		C Yes C	- Clay 1 HR - A	All hard rocks or stones (i.e. those	which cannot be scratched w	ii Not Applii Poor	c NON - Non-c NON - NNo	al No 1 - Yes	19 3a	WCIII 3b	Wetness	3b	Augered to 60cm, assume plastic C continues to 120cm	13-001
26 TQ 6263182122 562632 182123 8 ≤7	28 50	28 10YR4/2 22 2.5Y5/3 70 2.5Y6/3	CP - Cc10YR5/6 CP - Cc10YR5/6		Yes C	- Clay 1 HR - A - Clay - Clay	All hard rocks or stones (i.e. those	which cannot be scratched w	Poor	NON - Non-c NON - Non-c NON - NYes	alYes	19 3a	WCIII 3b	Wetness	3b	Augered to 70cm, assume C continues to 120cm	13-002
END																	l

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC V

WC VI

ALC Grado

2

3a

3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name	Parcel										
ALCSP14	C629 LTC ALCSF	214		ALCSP14								
Date of Survey	Survey Type		Surveyor(s)		Company							
21/02/2019			AR	Ask	Askew Land and Soil							
Weather		Relief		Land use and v	egetation							
Dry, Sunny		Level		LEY (Ley Grass)								
			<u> </u>									
Grid Reference			Postcode	Altitude	Area							
TQ62738222			RM16 3LT	11	37.40000153							
MAFF prov		MAFF detaile	d	Flooding								
Grade 3 None				Flood Zone 1	l Zone 1							
					-							
AAR	AT0	MDw	MDp	FCD	Climate grade							
564	1485	126	123	102	1							
Bedrock			·	Superficial deposits								
THAMES GROUP			None	None								
Soil association(s) 1			Deta	Detailed soil information								
Windsor/Fladbury	3		None	None								
Davidson Novale			Data Barder d									
Revision Number			Date Revised									
1			05/02/2019									

Grid ref. Alt (I	m) Slope ° Ar	spect Land use	Top Bttm	m) Matrix Thick Munsell co	Ochreous Mottles	Grey Mottles Ir Form Munsell colour	Gley Te	exture St % > 2cn	ones - type 1	Stones - type 2 % > 2cm > 6cm	Type Strength Size	Shape	STR CaCC	Mn C SF	L MBw Mi	ght Wet Bp Gd WC Gw	Limitation	Final AL 1 Limitation 2 L	imitation 3 Grade	Profile notes	Client Ref.
Q 62731 82223 562732 182223 11	£7	LEY	0 32	32 10YR4/2 88 10YR5/3		- Indian colui		- Clay 1	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A	pplic NON	- Non-cal No - NYes Ye	0 -20	0 3a WCIII 3b	Wetness	L. Control of L.	3b	Augered to 60cm, assume plastic continues to 120.	13-003
162631 82223 562632 182223 8	<u></u>	LEY	0 26 26 120	26 10YR4/2 94 2.5Y5/3	CP - Cc10YR5/6		Yes C	- Clay 1 - Clay 0	HR - All I	nard rocks or stones (i.4	. those which cannot be scra	tched wi Not A	pplic NON NON	- Non-cal No - NYes Ye	o -2 -22 s	2 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-004
62731 82322 562732 182323 11	<u>≤7</u>	LEY		38 10YR4/2 52 10YR5/3	CD - C 10YR5/6			- Clay 2 2 - Silty clay	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A		· Vé No Ne · Vé No Yé		1 3b WCIII 3b	Wetness		3b	marginal calcareous for 3a	13-005
Q 62631 82322 562632 182323 8	<u></u>	LEY		28 10YR4/2 92 2.5Y5/3	CP - Cc10YR5/6		Yes C	- Clay 1 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A	pplic NON NON	- Non-cal No - NYes Ye	o -1 -2:	1 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-006
0 62731 82423 562732 182423 9	<u>≤7</u>	LEY	0 35 35 80	35 10YR4/2 45 7.5YR5/3	MD - N10YR5/6		Yes ZO	2 - Silty 2 2 2 - Silty clay	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A Poor	pplic NON NON	- NNO No - NNO Ye		3 3b WCIII 3b	Wetness	Droughtiness	3b		13-007
2 62631 82423 562632 182423 7	≤7	LEY		28 10YR4/2 92 2.5Y5/3	CP - C(10YR5/6			- Clay 1 - Clay 0	HR - All I	nard rocks or stones (i.a	. those which cannot be scra	tched wi Not A Poor		- Non-cal No - No Ye		1 3a WCIII 3b	Wetness		3b	Augered to 70cm, assume plastic continues to 120.	13-008
Q 62731 82522 562732 182523 9	≤7	LEY	0 22 22 50	22 10YR4/2 28			No C No C	- Clay 1 - Clay 1	HR - All I HR - All I	nard rocks or stones (i.a nard rocks or stones (i.a	. those which cannot be scra . those which cannot be scra	tched wi Not A	pplic NON Prate NON	- NNO No	o -45 -42	2 3b WCIII 3b	Wetness	Droughtiness	3b		13-009
Q 62631 82523 562632 182523 7	≤7	LEY	28 60	28 10YR4/2 32 10YR5/3 60 10YR5/3	CD - C 10YR5/6	CD - C 2.5Y6/1	Yes C	- Clay 2 - Clay 0 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A Poor Poor	NON	- Non-cal No - NNo Ye - NNo Ye	s	2 3a WCIII 3b	Wetness		3b	Augered to 70cm, assume plastic continues to 120.	13-010
0,62722 82620 562723 182621 6	≤ 7	LEY	0 25 25 50	25 10YR4/2 25				- Clay 1 - Clay 1	HR - All I HR - All I	nard rocks or stones (i.a nard rocks or stones (i.a	. those which cannot be scra those which cannot be scra	tched wi Not A tched wi Mod	pplic NON erate NON	- NNO No	o -44 -4: o	1 3b WCIII 3b	Wetness	Droughtiness	3b		13-011
Q 62622 82621 562623 182621 6	<u>≤7</u>	LEY		28 10YR4/2 92 10YR5/3	CD - C 10YR5/6		Yes C	- Clay 2 - Clay 0	HR - All I	nard rocks or stones (i.a	. those which cannot be scra	tched wi Not A Poor	pplic NON NON	- Non-cal No - NNo Ye	o -2 -22 s	2 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-012
Q 62611 82709 562612 182709 6	≤7	LEY		30 10YR3/2 90 10YR5/3			Yes C	- Clay 2 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A		- Non-cal No - NNo Ye		1 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-013
Q 62631 82822 562632 182823 2	≤7	LEY		30 10YR4/2 90 10YR5/2	MP - N10YR5/8			- Clay 2 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A		- Non-cal No - Noo Ye		1 3a WCIII 3b	Wetness		3b	Augered to 70cm, assume plastic continues to 120.	13-014
Q 62631 82923 562632 182923 2	<u>≤7</u>	LEY	0 22 22 50	22 10YR4/2 28			No C No C	- Clay 1 - Clay 1	HR - All I HR - All I	nard rocks or stones (i.4 nard rocks or stones (i.4	. those which cannot be scra	tched wi Not A	pplic NON erate NON	- NNO No	o -45 -42 o	2 3b WCIII 3b	Wetness	Droughtiness	3b		13-015
Q 62539 82924 562540 182924 1	≤7	LEY	0 25 25 50	25 10YR4/2			No C	- Clay 1	HR - All I	nard rocks or stones (i.e	. those which cannot be scra . those which cannot be scra	tched wi Not A	pplic NON	- NNo No	-44 -4:	1 3b WCIII 3b	Wetness	Droughtiness	3b		13-016

Grid ref.	Alt (m)	0 Acces	t Land use		(cm) [Ochreous Mottles		Glass	Texture	Stones - type 1 Stones - type 2 Ped		CO2 Mp C Spi Drough		Wet	Final ALC		Profile notes	Cli
NGR X Y	Alt (m) Slo	pe Aspec	t Land use				Form Munsell colour	Form Munsell colour	Gley	rexture	% > 2cm > 6cm Type % > 2cm > 6cm Type Strength Size Shape SUBS S	ork Cat	CO3 Mn C SPL MBw MBp	Gd \	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile flotes	Re
TQ 62631 83023 562632 18	3023 2 ≤7		LEY	0 10	10					C - Clay			-109 -106	4			Non-Ag		1
TQ 62531 83023 562532 18	2072 1 27		LEY	0 35	35 1	10VP4/2			Vor	C - Clay	O Not An	nolic SC	- Slig No No -26 -18	2h 1	WC III 2h	Wetness Droughtiness	3b	No Access	-
100233103023 302332 10	5025 1 2,			35 80			CD - C 10YR5/6			C - Clay	Poor		ON - NNo Yes	30		Wethess Broughtiness	55	No recess	
TQ 62531 83122 562532 18	3123 1 ≤7		LEY	0 10	10								-126 -123	4				No Access	
									1										
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TQ 62531 83222 562532 18	3223 1 ≤7		LEY	0 10	10				1	C - Clay			-109 -106	4					
									1										
									1										
									1										
									1										
TQ 62431 83222 562432 18	3223 1 ≤7		LEY	0 38	38 1	10YR4/2			Yes	C - Clay	0 Not Ap	polic SC	- Slig No No -25 -17	3b \	WCIII 3b	Wetness Droughtiness	3b		\dashv
				38 80			CD - C 10YR5/6			C - Clay	Poor	NO	ON - NNo Yes						
TQ 62431 83323 562432 18	3323 3 ≤7				33 1					C - Clay		plic NO	ON - NNo No -27 -19	3b	WC III 3b	Wetness Droughtiness	3b		
				33 50 50 80			MD - 110YR5/6 MD - 110YR5/6			C - Clay C - Clay	Poor Poor		ON - NNo Yes ON - NNo Yes						
				30 80	30 .	101113/2	WID - FIOTRO/O		163	C - Clay	Poor	140	514 - 14140 Tes						
									1										
TQ 62426 83422 562427 18	3423 3 <7		LEY	0 20	20 1	10YR4/2		-	Yes	C - Clay	Ω Not Δο	nlic NO	ON - NNo Yes -34 -26	3h 1	WCIII 3h	Wetness Droughtiness	3h	point moved to west side of	
10 03-11 301-42/ 10				20 35			CD - C 10YR5/6			C - Clay			ON - NNo Yes	35	30	Droughtiness		drainage ditch;	
				35 55	20 1	10YR5/1	CD - C 10YR5/6		Yes	ZC - Silty	clay	NO	ON - NNo Yes						
				55 80	25	7.5YR4/1	CD - C 10YR5/6		Yes	C - Clay	Poor	NO	ON - NNo Yes						
									1										
									1										
TQ 62331 83423 562332 18	3423 5 ≤7				35 1				No	C - Clay	0 Not Ap		- Slig No No -14 -22	3a 1	WC III 3b	Wetness	3b		_
				35 90			CP - Cc10YR5/6		No	ZC - Silty	clay		ON - NNo Yes						
				90 100	10 1	10145/1	CP - Cc10YR5/6		No	ZC - Silty	clay Poor	NO	ON - NNo Yes						
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END				l .				1	1	1		- 1	1 1	Į.		I	1	1	

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC V

WC VI

ALC Grado

1

2 3a

3b

4

5 Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP15	C629 LTC ALCSP	15			ALCSP15
Date of Survey	Survey Type		Surveyor(s)		mpany
22/02/2019			RWA	Ask	xew Land and Soil
Weather		Relief		Land use and v	regetation
Dry, Sunny		Level		LEY (Ley Grass)	
0:15 (- In	Latin 1	Τ.
Grid Reference			Postcode	Altitude	Area
TQ62338352			RM14 3RE	3	75
MAFF prov		MAFF detailed	 d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
571	1494	126	124	103	1
					•
Bedrock			Superficial depos	sits	
THAMES GROUP			None		
Soil association(s) 1	:250 000		Detai	iled soil information	
Windsor/Fladbury 3			None		
- · · · · · ·	-				
Revision Number			Date Revised		
1			05/02/2019		

NGR X V	n) Slope ° A	spect Land us	se Ton P++	tm Thick	Munsell colo	Uchreous Mottles	Form Munsell colou	Gley	Texture Stones - type 1 Stones - type 2 Ped SUBS	TR CaCO3 N	In C SPL MBw MPo Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile notes	Client Ref.
TQ 62331 83522 562332 183523 3	≤7	LEY	0 40	40	5Y4/1	process perunsen colour	. Jim priditseli colou	Yes	Texture Stones - type 1 Stones - type 2 Ped SUBS 4 2 cm 5 cm Type % > 2 cm 5 cm Type Strength Size Shape	plic NON - NN	o No -18 -20 3a	WC III 3b	Final ALC Umitation 1 Limitation 2 Limitation 3 Wetness	3b	1	13-025
			40 52	12	10YR5/3	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	o Yes					1
			52 70	18	2.5Y5/2 7.5YR4/2	MP - N 10YR5/6 MP - N 10YR5/6		Yes	ZC - Silty clay ZC - Silty clay Poor	NON - NN	o Yes					
			/0 90	20	7.5YR4/2	MP - N 10YR5/6		Yes	ZC - Sifty clay Poor	NON - NN	o Yes					
TQ 62231 83523 562232 183523 3	≤7	LEY	0 38	38 12	5Y4/1 10VPE/2	MP - N 10YR5/6		Yes	C - Clay 0 Not A Poor plic NON - NN	No -19 -21 3a No Yes No Yes	WC III 3b	Wetness	3b		13-026	
			50 70	20	2.5Y5/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	o Yes					
					7.5YR4/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	o Yes					
TQ 62231 83622 562232 183623 3	≤7	LEY	0 26	26	10YR5/2			No	C - Clay 4 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Not A	plic NON - NN	o No 9 -12 3a	WC III 3b	Wetness	3b		13-02
			26 70	44	10YR6/3			No	C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Mode	ate NON - NN	o No					
			70 12	0 50	10YR6/2			No	C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Mode	ate NON - NN	o No					
TQ 62131 83623 562132 183623 3	≤7	LEY	0 38	38	5Y4/1 10YR5/3	MP - N 10YR5/6		Yes	C - Clay 0 Not A Poor plic NON - NN	o No -19 -21 3a o Yes	WC III 3b	Wetness	3b		13-02	
					2.5Y5/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	n Yes					
			70 90	20	7.5YR4/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor 2C - Silty clay Poor Poor	NON - NN NON - NN	o Yes					
TQ 62131 83722 562132 183723 3	≤7	LEY	0 30	30	2.5Y4/2		+	Yes	C - Clay 0 Not A	plic NON - NN	o No -14 -22 3a	WC II 3a	Droughtiness Wetness	3a	patchy crop;	13-03
· · · · · ·			30 40	10	2.5Y4/3			No	ZC - Silty clay Mode	ate NON - NN	o No		-		1	1
			40 45	5	2.5Y4/3	FF - Fe 10YR5/6		No	ZC - Silty clay Poor	NON - NN	o Yes					
			45 90	45	10YR5/1	MP - N 10YR5/6 MP - N 10YR5/6		Yes	Poor MAZCL - Silty clay (modium)	NON - NN	0 No -14 -22 3a 0 No 0 Yes 0 Yes 0 Yes					
			90 10	0 10	313/1	WIP - N TOTRO/O		162	MZCL - Silty clay loam (medium)	NON - NN	io i les					
TQ 62031 83723 562032 183723 4	≤7	LEY	0 10	10	·				C - Clay		-109 -107 4			Non-Ag		13-03
TQ 62025 83825 562026 183826 4	≤7	LEY					+				_	1	+	1		13-04
																15 04
TQ 61931 83822 561932 183823 4	≤7	LEY														13-04
TQ 61831 83823 561832 183823 4		LEY								+		1	1	1		13-04
14 01031 83823 501832 183823 4	5/	LEY														13-04
TQ 61831 83922 561832 183923 4	≤7	LEY										1				13-05
TQ 61731 83923 561732 183923 5	_											1	4	1		4,
IQ 61/31 83923 561732 183923 5	≤/	LEY														13-05
TQ 61631 83922 561632 183923 5	≤7	LEY										1		1		13-09
TO 64624 04022 F64622 404022 7		150										1		1		
TQ 61631 84023 561632 184023 5	≤7	LEY														13-06
	-7	LEY						+		+		1		+		13-06
TQ 61531 84022 561532 184023 5							1	1		1 1	1	1	i e	1	1	1

Grid ref. Depth (cr	n) Matrix Ochreous Mottles Grey N	Nottles Clay Tenture Stones - type 1	Stones - type 2 Ped	SUBS STD COCO2 May C SDI Drought	Wet Final ALC Profile notes	Client
Point Grid ref. Alt (m) Slope ° Aspect Land use Depth (cn Top Bttm 1 Top Bttm 1 Top Bttm 1 Top Bttm 1	Thick Munsell colour Form Munsell colour Form Muns	sell colour Gley Texture % > 2cm > 6cm Type	% > 2cm > 6cm Type Strength Size Shape	SUBS STR CaCO3 Mn C SPL MBw MBp Go		Ref.
ı						
ı						
ı						
h						
15 TQ 61431 84023 561432 184023 5 ≤7 LEY						13-069
ı						
ı						
ı						
ı						
16 TQ 61332 84022 561332 184023 5 ≤7 LEY						13-070
ı						
ı						
ı						
ı						
47 TO CARDA OMOD COMOD COMOD C						45.55
17 TQ 61431 84122 561432 184123 5 ≤7 LEY						13-082
i						
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18 TQ 61318 84123 561319 184123 5 ≤7 LEY						13-083
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19 TQ 61231 84122 561232 184123 5 ≤7 LEY						13-084
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i						
20 TQ 61131 84123 561132 184123 5 ≤7 LEY						13-085
i						
21 TQ 61031 84122 561032 184123 6 ≤7 LEY						13-086
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22 TQ 60931 84123 560932 184123 6 ≤7 LEY						13-087
ı						
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FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

ONA - Granulai

SAB - Subangular Blocky AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel
ALCSP16	C629 LTC ALCS	P16			ALCSP16
Date of Survey	Survey Type		Surveyor(s)		mpany
18/03/2019			RM	Ask	kew Land and Soil
Weather		Relief		Land use and v	vegetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ59638362			RM15 6SP	24	32.29999924
•			<u>'</u>	•	•
MAFF prov		MAFF detailed	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
591	1471	123	120	105	1
Dodgo de			C	-:4	_
Bedrock			Superficial depos	SITS	
Thames Group			None		
Soil association(s) 1	:250,000		Detai	iled soil information	
Fladbury 3			None	1	
Revision Number			Date Revised		
1			07/02/2019		

Grid ref.	A 51 9 Am	Depth (cm)	Matrix	Ochreous Mottles	Grey Mottles	Tout	Stones - type	1	Stones - type 2	Ped	SUBS STR Ca		C CD1 1	Drought	Wet	Final ALC		Profile notes	Client
oint NGR X Y Alt (m	,	Top Bttm Thic	k Munsell colour	Form Munsell colour	Form Munsell colour Gle	y Texture %	> 2cm > 6cm	Type %	> 2cm > 6cm Type	Strength Size Shape	SUBS STR Ca	LU3 Mn	MBw	MBp Gd	WC Gw	Limitation 1 Limitation 2 Limita	ition 3 Grade	Profile notes	Ref.
TQ 59631 83623 559632 183623 24	্র														WC III 3a	Wetness	За		13-030
TQ 59731 83723 559732 183723 23	s7	0 24 24 24 50 26 50 120 70	10YR5/3	CD - Common Distinct MP - N 2.5YR5/6	CD - Common Distinct No	MSL - Me 8 SCL - San 1 SCL - San 1)	HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	vi Moderate NO	N - Non-c	al No	-20 3a	WC III 3a	Droughtiness Wetness	3a		13-035
TQ 59631 83723 559632 183723 22	<i>\$</i> 7	0 28 28 28 50 22 50 120 70	10YR6/2	MD - Many Distinct MD - Many Distinct		HCL - Clay 8 HCL - Clay 20 HCL - Clay 20)	HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-c	al No	-19 3a	WC III 3a	Droughtiness Wetness	3a		13-036
TQ 60032 83813 560033 183814 23	≤7	0 25 25 25 54 29 54 120 66	10YR4/4	MP - 1\ 5YR5/6	No	HCL - Clay 1 C - Clay 1 C - Clay 0		HR - All har	d rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-o	al No	-4 2	WC III 3b	Wetness	3b		13-044
TQ 59931 83823 559932 183823 23	<i>≤</i> 7	0 24 24 24 50 26 50 120 70	10YR5/3	MD - N 5YR5/6	No	HCL - Clay 6 HCL - Clay 1 C - Clay 0		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-o	al No	-6 2	WC III 3b	Wetness	3b		13-045
TQ 59829 83809 559830 183809 23	<i>\$</i> 7	0 28 28 28 57 29 57 120 63	10YR4/2 10YR4/4 10YR5/3	CD - Cı SYRS/6	No No CD - Cc2.5Y5/1 Yes	HCL - Clay 5 HCL - Clay 4 C - Clay 2		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-o	al No	-7 2	WC II 3a	Wetness	3a		13-046
TQ 59731 83822 559732 183823 23	≤7	0 30 30 30 55 25 55 120 65	2.5Y6/3	CP - Cc 7.5YR5/6 CP - Cc 7.5YR5/8		MCL - Cla 4 HCL - Cla 0 C - Clay 0		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	vi Moderate NO	ON - Non-c ON - NYes ON - NYes	No	-9 2	WC II 2	Droughtiness Wetness	2		13-047
TQ 59631 83822 559632 183823 22	<i>s</i> 7	0 35 35 35 50 15 50 120 70		CD - C: 10YR5/6 MP - N 7.5YR5/6	Ye:	MCL - Cla 1 HCL - Cla 0 C - Clay 0	0 0	HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	DN - Non-c DN - NO DN - NYes	No	-8 2	WC III 3a	Wetness	3a		13-048
TQ 60331 83923 560332 183923 14	<i>S</i> 7	0 38 38 38 120 82		CP - Ct 7.5YR5/6	CD - Cr2.5Y6/2 Yes	C - Clay 2 C - Clay 0		HR - All har	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	ri Not Applic NO ri Poor NO	DN - Non-c DN - NYes	al No 5 Yes	-15 3a	WC III 3b	Wetness	3b		13-057
D TQ 60231 83922 560232 183923 14	\$7	0 35 35 35 120 85	10YR4/2 2.5Y5/3	CP - Ct 7.5YR5/6	CD - Cc2.5Y6/2 Ye:	C - Clay 2 C - Clay 0		HR - All har	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	ri Not Applic NO ri Poor NO	DN - Non-c DN - NYes		-16 3a	WC III 3b	Wetness	3b		13-058
TQ 60131 83922 560132 183923 20	\$7	0 25 25 25 54 29 54 120 66	10YR4/4	MP - N 5YR5/6	No No MP - N 2.5Y5/1 Yes	C - Clay 1 C - Clay 1 C - Clay 0		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	vi Moderate	e	15	-6 2	WC III 3b	Wetness	3b		13-059
2 TQ 59831 83922 559832 183923 25	s7	25 35 10	10YR4/2 10YR4/3 2.5Y6/4 5Y6/2	CD - Cı 10YR5/6 CP - Cı 7.5YR5/6	Ye:	SCL - San 5 SCL - San 5 SCL - San 5 MSL - Me 5		HR - All ha	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	ii Moderate NO	N - NNo	No No	-15 3a	WCI 1	Droughtiness	3a		13-060
3 TQ 59731 83923 559732 183923 25	s7	0 35 35 35 40 5 40 45 5 45 120 75	10YR4/4 10YR5/4		No No	MSL - Me 1 MSL - Me 1 LMS - Loa 5 LMS - Loa 7	5	HR - All har HR - All har	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	ii Moderate NO ii Moderate NO	N - NNo	al No -48 No No No	-52 3b	WCI 1	Droughtiness	3b		13-061
4 TQ 59631 83923 559632 183923 25	<u>≤7</u>	0 35 35 35 50 15			No	SCL - San 1 HCL - Cla 1				which cannot be scratched w				-27 3b	WCI 1	Droughtiness	3b		13-062

Point Grid ref.	Alt (m) Slo	pe ^o Aspect Land us			Matrix	Ochreous Mottles		Glev	Texture Stones - typ		Stones - type 2		Ped	SUBS STR	CaCO3 M	In C SPI	Drou	ight	Wet WC Gw		Final ALC		Profile notes	Client
NGR X Y	300	pc	50 60	60 10	2.5Y5/3 2.5Y5/3	r Form Munsell colour CD - C: 10YR5/6 CD - C: 10YR5/6	Form Munsell colour	Yes Yes	% > 2cm > 6cn HCL - Clar 30 HCL - Clar 60 HCL - Clar 75	HR - All hard HR - All hard	rocks or stones (i.e. rocks or stones (i.e.	those which those which	rength Size Sh ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate ed wi Moderate	NON - NNO	o No		Bp Gd	WC Gw	Limitation 1	Limitation 2 Lim	nitation 3 Grade		Ref.
15 TQ 60631 84031 560632 184031	9 ≤7		25	53 28	10YR4/2 10YR4/4 10YR5/3	MP - N SYRS/6	MP - N 2.5Y5/1	No	C - Clay 1 C - Clay 1 C - Clay 0	HR - All hard	rocks or stones (i.e.	those which	ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate	NON - Nor	n-cal No		2	WC III 3b	Wetness		3b		13-071
16 TQ 60531 84022 560532 184023 1	9 ≤7		25	50 25	10YR4/2 10YR4/4 10YR5/3	MP - N 5YR5/6	MP - N 2.5Y5/1	No	C - Clay 1 C - Clay 1 C - Clay 0	HR - All hard	rocks or stones (i.e.	those which	ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate	NON - Nor	n-cal No		2	WC III 3b	Wetness		3b		13-072
17 TQ 60431 84023 560432 184023	11 ≤7		0 45	45 45 120 75	10YR4/2 2.5Y5/3	CP - Ct 7.5YR5/8		Yes	C - Clay 1 C - Clay 0	HR - All hard HR - All hard	rocks or stones (i.e. rocks or stones (i.e.	. those which	ch cannot be scratch ch cannot be scratch	ed wi Not Applic ed wi Poor	NON - Nor NON - NYe	n-cal No es Yes	0 8 -12 S	2 3a	WC II 3a	Droughtines	ss Wetness	3a		13-073
18 TQ 60331 84022 560332 184023	14 ≤7				10YR4/2 10YR5/4				C - Clay 0 C - Clay 0				ch cannot be scratch		NON - Nor NON - NN) 2 -18 s	3 3a	WC III 3b	Wetness		3b		13-074
19 TQ 60231 84022 560232 184023	14 ≤7		25	49 24	10YR4/2 10YR4/4 10YR5/3	MP - N 5YR5/6	MP - N 2.5Y5/1	No	C - Clay 1 C - Clay 1 C - Clay 0	HR - All hard	rocks or stones (i.e.	. those whic	ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate		No No No	15 -6	2	WC III 3b	Wetness		3b		13-075
20 TQ 59831 84023 559832 184023	25 ≤7		25 35	35 10 50 15	10YR3/2 10YR4/2 10YR5/2 10YR4/1	CD - C: 10YR5/6		No Yes	MSL - Me 10 5 0 SCL - San 10 SCL - San 10 SCL - San 10	HR - All hard HR - All hard	rocks or stones (i.e. rocks or stones (i.e.	those which those which	ch cannot be scratch ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate ed wi Moderate	NON - NNO	o No o No) 3a	WCII 1	Droughtines	ss .	3a		13-076
21 TQ 60831 84122 560832 184123	7 ≤7				10YR4/2 2.5Y5/3	CP - Ct 7.5YR5/6			HCL - Clar 1 C - Clay 0				ch cannot be scratch ch cannot be scratch		NON - Nor NON - NNo		s -19	5 3a	WC III 3b	Wetness		3b		13-088
22 TQ 60731 84123 560732 184123 9	9 ≤7				10YR4/2 2.5Y5/3	CD - Cı 7.5YR5/6			C - Clay 1 C - Clay 0				ch cannot be scratch ch cannot be scratch		NON - Nor NON - NNo		3 -17 s	7 3a	WC IV 3b	Wetness		3b		13-089
23 TQ 60631 84122 560632 184123 9	9 ≤7				10YR4/2 2.5Y5/3	CD - C: 10YR5/6	CD - Cc2.5Y6/1	Yes	C - Clay 1 C - Clay 0				ch cannot be scratch		NON - Nor NON - NNo			3 3a	WC III 3b	Wetness		3b		13-090
24 TQ 60531 84123 560532 184123 5	9 ≤7				2.5Y4/2 2.5Y5/3	CP - Cx 7.5YR5/6	CD - Cc2.5Y6/1		C - Clay 1 C - Clay 1				ch cannot be scratch		NON - Nor NON - NYs			Э За	WC III 3b	Wetness		3a		13-091
END																								

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP17	C629 LTC ALCSP:	17			ALCSP17
			<u> </u>		
Date of Survey	Survey Type		Surveyor(s)		npany
18/02/2019			RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level			
Grid Reference			Postcode	Altitude	Area
TQ59538372			RM15 6SP	22	20
1033330372			111111111111111111111111111111111111111	122	20
MAFF prov		MAFF detailed	1	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
591	1473	123	120	105	1
<u> </u>			La constitution		
Bedrock			Superficial depo	sits	
Thames Group			None		
Soil association(s) 1	:250,000		Deta	iled soil information	
Shabbington			None		
Revision Number			Date Revised		
1			07/02/2019		

int Grid ref. Alt (Dο	oth (cm)	Matrix	Ochreous Mottles	Grey Mottles		Stone	s - type 1	Stones - type 2	Ped				Drought	Wet	Final ALC			Client
NGR X Y	,,	and use Top I	8ttm Thi	ck Munsell colour	r Form Munsell colour	Form Munsell colour		% > 2cm	> 6cm Tv	pe % > 2cm > 6cm Type	Strength Size	SUBS ST	R CaCO3	Mn C S	MBw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitatio	in 3 Grade	Profile notes	Ref.
TQ 59532 83723 559532 183723 22	≤7		25	10YR4/2	CD - C/5YR5/6	CD - C(2.5YR6/2		HCL - Clar 12 6	2 HF	- All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Not App	ic NON - N	ion-cal N	o 8 -12 3a	WC II 3a	Droughtiness Wetness	3a		13-037
		25 70	20 50	7.5YR5/6 7.5YR5/3	CD - C/5YR5/6 CD - C/5YR5/6	CD - C(2.5YR6/2 CD - C(2.5YR6/2		C - Clay 6 C - Clay 6	HH	t - All hard rocks or stones (i.e. tho t - All hard rocks or stones (i.e. tho	se which cannot be scrate	hed wil Modera: hed wil Modera:	e NON - N	ion-cal N	0					
		,,,	.20 30	7.511(5) 5	CD C/3/1/3/0	CD C(2.51NO)2	103	c city o			Je Willer cullifor be seruce	nea wi moacia	L IIIOIT II							
TQ 59432 83723 559432 183723 22	<7	0 3	15 25	10YR4/2			Nο	HCL - Clar 8 6	2 HF	t - All hard rocks or stones (i.e. the	se which cannot he scrate	hed wit Not Ann	ic NON - N	Ion-cal N	n 9 -10 3a	WC II 3a	Droughtiness Wetness	3a		13-038
		25 (5 40	7.5YR5/6	CD - C: 5YR5/6	CD - Cc2.5YR6/2	Yes	C - Clay 6	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	Ion-cal N	0					1-0-000
				7.5YR5/3	CD - C: 5YR5/6	CD - Cc2.5YR6/2		C - Clay 6		t - All hard rocks or stones (i.e. the										
TQ 59341 83723 559341 183723 21	≤7	0 2	24 24	10YR4/2				HCL - Clay6 2	1 HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal N	o 11 -9 2	WC III 3b	Wetness	3b		13-039
				2.5YR5/4 2.5YR6/3	MD - Many Distinct	MD - Many Distinct MD - Many Distinct		C - Clay 2	HF	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	lon-cal N	0					
		40	20 80	2.5YRb/3	MD - Many Distinct	MD - Many Distinct	res	C - Clay 6	HH	- All nard rocks or stones (i.e. the	se which cannot be scrato	ned wil Modera	e NON - N	ion-cai n	0					
TQ 59232 83723 559232 183723 21	≤7			2.5YR5/2 10YR5/6	MD - 1 5YR5/6	MD - N 2.5YR6/2		MCL - Cla 2 C - Clay 1	HF	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Not App	id NON - N	ion-cal N	0 16 -5 2	WC III 3a	Wetness	3a		13-040
		50	20 70	10YR5/3	MD - Many Distinct	MD - Many Distinct	Yes	C - Clay 1	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	P NON - N	ion-cal N	n					
				,.																
TQ 59532 83823 559532 183823 22	≤7	0 :	16 36	10YR4/2		+	+	HCL - Clay 2	HE	t - All hard rocks or stones (i.e. tho	se which cannot be scrate	hed wi Not Ann	ic NON - N	lon-cal N	o 7 -13 Ra	WC III 3b	Wetness	3b		13-049
		36	0 34	2.5Y5/3	CP - Cc 7.5YR5/6		Yes	C - Clay 2	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	Yes Y	es					1
		70 :	20 50	2.5Y6/3	CP - Ct 7.5YR5/6		Yes	C - Clay 2	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor		Yes Y						
TQ 59432 83823 559432 183823 22	≤7		14 34					HCL - Clay 1	HF	- All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal N	o 4 -13 3a	WC III 3b	Wetness	3b		13-05
		34 8	80 46	2.5Y6/3	MP - N 7.5YR5/6		Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	Yes Y	es					
		80 :	20 40	2.5Y6/2	CP - Ct 7.5YR4/6		Yes	C - Clay 10	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	Yes Y	es					
TQ 59332 83823 559332 183823 21	≤7			10YR4/2	CD - C: 7.5YR5/6			C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Not App	ic NON - N	ion-cal N	o 4 -16 3a	WC III 3b	Wetness	3b		13-051
		35	20 85	2.5Y6/3	CD - Ci 7.5YR5/6		Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wil Poor	NON - N	Yes Y	es					
TQ 59232 83823 559232 183823 21	≤7			10YR4/2 2.5Y6/3	MP - N 7.5YR5/6			HCL - Clay 1 C - Clay 2	HF	t - All hard rocks or stones (i.e. tho t - All hard rocks or stones (i.e. tho	se which cannot be scrate	hed wi Not App	NON - N	lon-cal N	o 7 -13 3a	WC III 3b	Wetness	3ь		13-052
		35	20 85	2.516/3	MP - N 7.51K5/6		res	C - Clay 2	HH	- All nard rocks or stones (i.e. the	se which cannot be scrato	nea wii Poor	NON - N	res r	es					
TO 59132 83823 559132 183823 20	-7	0 -	16 76	2.5YR4/2			No	C - Clav 2	uc	t - All hard rocks or stones (i.e. the	so which cannot be scrate	had wit Not Ann	ic NON - N	lon cal N	n 14 -7 3	WC III 2b	Wetness	2h		13-053
10 39132 83823 339132 183823 20	2/			10YR5/3	MD - 1 5YR5/6	MD - N 2.5YR6/2		C - Clay 1	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	ion-cal N	0 14 -7 2	WC III 30	wethess	30		13-03.
				10YR5/3	MD - Many Distinct	MD - Many Distinct	Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Modera	e NON - N	Ion-cal N	0					
TQ 59532 83923 559532 183923 24	≤7	0 :	16 36	10YR4/2				MCL - Cla 3		t - All hard rocks or stones (i.e. the						WC III 3a	Wetness	3a		13-063
		36 8	0 44	2.5Y5/3	MP - N 7.5YR5/6		Yes	C - Clay 2	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Poor	NON - N	Ion-cal Y	es					
		80 :	20 40	2.5Y6/3	MP - N 7.5YR5/6		Yes	MSL - Me 5	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Modera	e NON - N	lon-cal N	0					
TQ 59432 83923 559432 183923 23	≤7			10YR4/2				HCL - Clay5	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal Y	es 1 -17 3a	WC III 3b	Wetness	3b		13-06
		38 :	20 82	2.5Y5/3	CP - Ct 7.5YR5/6		Yes	C - Clay 10	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	lon-cal Y	es					
						1														_
TQ 59332 83923 559332 183923 23	≤7	0 2 28 5		10YR4/2 2.5Y5/3	CP - Ct 10YR5/6	CD - C(2.5Y6/1		HCL - Clay 3 C - Clay 5	HF	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrato	ned wi Not App	ICNON - N	lon-cal N lon-cal Y	o 0 -19 3a	WC III 3b	Wetness	3b		13-06
				2.5Y5/3 2.5Y5/1	CP - Cc 10YR5/6 MP - N 7.5TR5/6	CD - C(2.5Y6/1		C - Clay 5 C - Clay 5	HH	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wit Poor		ion-cal Y						
		-	5				1.23	, -	***	or stories p.e. tile										
TO 59232 83923 559232 183923 23	- 7	0 -	7 27	10YR4/2		1	+	HCL - Clay3	110	t - All hard rocks or stones (i.e. the	so which cannot be seents	had wit Not *	ic NON A	lon cal N	n 5 .12 ?n	WC III 3b	Wetness	3h		13-06
. ~ >32.32 03.323 33.322 103.323 23	21			2.5Y5/2	MP - N 7.5YR5/6		Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Poor	NON - N	ion-cal Y	es -15 38	•VC III 30	**Curess	30		13-06
		75 9	0 15	2.5Y5/2	MP - N 7.5YR5/8		Yes	SCL - San 10	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	Ion-cal N	0					
		90 :	20 30					SCL - San 50	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e	N	0					
		1																		
TQ 59032 83823 559032 183823 20	≤7			10YR4/2 5YR4/6	MD - Many Distinct		No	SCL - San 12 6	2 HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal N	o -32 -50 3b	WC II 2	Droughtiness	3b		14-001

Daint	(Grid ref.	0.14	(m) Slope	Aspect Land us		Depth (cm)		Matrix	Ochreous Mottles	Grey Mottl		Texture	Stones - type 1	Stones - type 2	Ped	CURS STR. C+CO2	Man C	Drought	Wet	Final ALC		Profile notes	Client
POIIIL	NGR	X Y	All	(m) Slope	Aspect Land us	Top	Bttm Ti	hick M	Iunsell colour	Form Munsell colour	Form Munsell of	colour	rexture	e Stones - type 1 % > 2cm > 6cm Type	% > 2cm > 6cm Type	Strength Size S	hape SUBS STR CACUS	IVIII C	MBw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile flotes	Ref.
						50	120 70	0 51	YR4/6	MD - Many Distinct	MD - Many Disti	inct Yes	MS - M	/lec1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	lon-ca	alNo		, , , , , , , , , , , , , , , , , , ,			
										•					I Total			l						
10	TO 59132 839	22 550122 1	02022 22	<7		0	25 2	- 1/	OVD4/2			Ma	MSL - N	AAAF UD AU	hard rocks or stones (i.e. those		and will block Appella NON A		Ma 12 0 2	MC III 2	Droughtiness Wetness	2		14-002
15	10 39132 633	123 339132 1	00920 20	2/		25	52 2			CD . C	co				hard rocks or stones (i.e. those					WCIII 2	broughtness wetness	2		14-002
										CD - Common Distinct			C - Clay											
						52	120 6	8 7.	.5YR5/3	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	y 1 HR-All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
16	TQ 59032 839	23 559032 1	83923 23	≤7		0	25 2	5 10	0YR4/2			No	MSL - N	Me5 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Not Applic NON - N	No	No 13 -8 2	WC III 2	Droughtiness Wetness	2		14-003
						25	52 2	7 7/	/5YR5/6	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	y 1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
						52	120 6	8 7.	.5YR5/3	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	v 1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
									, .				,	, -	1	1								
																								4
17	TQ 58932 839	23 558932 1	83923 23	≤7		0	25 2						MSL - N		hard rocks or stones (i.e. those					WCI 2	Droughtiness Wetness	2	3a drought?	14-004
							52 2			CD - Common Distinct					hard rocks or stones (i.e. those									
						52	120 6	8 7.	.5YR5/3	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	y 1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
18	TQ 59032 840	123 559032 1	84023 23	<7																				14-007
10	14 33032 040	25 555052 1	04025 25																					14 007
															I									
															I									
															1									1
	END					1									1			_						

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel
ALCSP18	C629 LTC ALCSF	P18			ALCSP18
Date of Survey	Survey Type		Surveyor(s)		npany
19/02/2019			RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level			
<u> </u>			<u> </u>	1	T.
Grid Reference			Postcode	Altitude	Area
TQ58938402			RM15 5EE	23	20.79999924
MAFF prov		MAFF detailed	d	Flooding	
Grade 1/3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
591	1472	123	120	105	1
			T		
Bedrock			Superficial depos	sits	
Thames Group			None		
Soil association(s) 1	L:250,000		Detai	iled soil information	
Shabbington	,		None		
Revision Number			Date Revised		
1			07/02/2019		

nt Grid ref. Alt (Depth (cm)	Matrix Ochreous Mottles	Grey Mottles	1 1	Stones - type 1	Stones - type 2	Ped			Drought Drought	Wet		Final ALC		Client
	m) Slope ^o Aspect Land use	Top Bttm Thick	ck Munsell colour Form Munsell colour	Form Munsell colour Gley	Texture %	> 2cm > 6cm Type	% > 2cm > 6cm Type Il hard rocks or stones (i.e. those	Strength Size Shape	SUBS STR CaCO	3 Mn C	SPL MBw MBp G	d WC Gw	Limitation 1 Limita	tion 2 Limitation 3 Grade		Ref.
TQ 58932 84023 558932 184023 23	≤7	0 30 30	10YR4/2		SCL - San 8	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Not Applic NON	- Non-cal	No -18 -34 3	WCI 1	Droughtiness	3b		14-008
		30 45 15 45 120 75	10YR4/4	No	HCL - Clay30 HCL - Clay50	HR - A	Il hard rocks or stones (i.e. those Il hard rocks or stones (i.e. those	which cannot be scratched w	ii Moderate NON	- NNo	No					
		45 120 /5			HCL - Clay50	HK - A	II nard rocks or stones (i.e. those	which cannot be scratched w	nivioderate		NO					
TO 58832 84023 558832 184023 21																ļ
TQ 58832 84023 558832 184023 21	≤/	0 30 30 30 45 15	10YR4/2 10YP4/4	No	MSL - Me 20 MSL - Me 20	12 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ii Not Applid NON	- Non-cal	No -19 -40 31	WCI 1	Droughtiness	3b		14-009
		45 120 75		INO	MSL - Me 50		Il hard rocks or stones (i.e. those			- 11140	No					
							1									
TQ 58732 84023 558732 184023 22		0 35 35	10YR4/2		MSL - Me 25	16 110 4	Il hard rocks or stones (i.e. those	.hish soon at he seestahed	- Net Application	Non sol	No. 6 20 2	WCII 1	Droughtiness	20		14-010
1Q 38/32 84023 338/32 184023 22	2/	35 40 5		No	SCL - San 10	10 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No 6 -29 3	a WCII 1	Drougntmess	34		14-010
		40 80 40	10YR6/4 MP - N 7.5YR5/6		C - Clay 2	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ri Poor NON		No					
		80 120 40	10YR6/4 MP - N 7.5YR5/6	Yes	MSL - Me1	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No					
TO 58632 84023 558632 184023 22	≤ 7	0 30 30	10YR4/2		MSL - Me 12	6 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Not Applic NON	- Non-cal	No 11 -20 3	WCI 1	Droughtiness	3a	+	14-011
		30 80 50	10YR4/5	No	MSL - Me 10	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No			-		
		80 120 40	10YR4/6	No	SC - Sand 2	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ri Poor NON	- NNo	No					
					1 1											
					1 1											
					1 1											
TQ 58832 84123 558832 184123 24	≤7	0 24 24		No	SCL - San 6		iravel with non-porous (hard) stor		Not Applic NON	- Non-cal	No 10 -21 3	WCI 1	Droughtiness	3a	_	14-015
		24 35 11			SCL - San 15		iravel with non-porous (hard) stor		Moderate NON	- Non-cal	No					
		35 120 85	7.5YR5/6	No	SCL - San 15	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
					1 1											
TQ 58732 84123 558732 184123 23	≤7	0 24 24			MSL - Me 14	8 6 GH - 0	iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No 7 -24 3	WCI 1	Droughtiness	3a	+	14-016
		24 35 11	7.5YR5/6	No	SCL - San 15	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		35 120 85	7.5YR5/6	No	SCL - San 15	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
					1 1											
TQ 58632 84123 558632 184123 23	≤7	0 22 22	-		MSL - Me 20		iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No -19 -41 3	WCI 1	Droughtiness	3b	+	14-017
		22 40 18			MSL - Me 20		iravel with non-porous (hard) stor		Moderate NON	- Non-cal	No		_			
		40 120 80	7.5YR5/6	No	MSL - Me50	GH - 0	ravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
TQ 58532 84123 558532 184123 22	≤7	0 35 35			MSL - Me 3	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Not Applic NON	- Non-cal	No 28 -14 3a	WCI 1	Droughtiness	3a	+	14-018
		35 60 25	7.5YR4/5	No	SCL - San 3	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No					
		60 70 10	7.5YR5/5	No	SCL - San 20	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No					
		70 120 50	7.5YR5/6	No	MSL - Me3	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ii Moderate NON	- NNo	No					
					1 1											
TQ 58832 84223 558832 184223 24	≤7														-	14-024
					1 1											
					1 1											
					1 1											
TQ 58732 84223 558732 184223 23	≤7		10YR4/2		SCL - San 8		iravel with non-porous (hard) stor				No 12 -9 2	WC III 3a	Wetness	3a		14-025
		25 50 25	7.5YR5/6	No	C - Clay 1	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		50 120 70	7.5YR5/3	No	C - Clay 1	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					1
					1 1											1
					1 1											
					1 1											
TQ 58632 84223 558632 184223 23	£7	0 25 25	10YR4/2	No	FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No -15 -57 4	WCI 1	Droughtiness	4	+	14-026
		25 35 10	10YR5/2	No	FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No			[*		
		35 65 30	10YR6/4		FS - Fine 0	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		65 120 55	7.5YR6/6	No	SCL - San 0	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
TQ 58532 84223 558532 184223 22	≤7	0 22 22	10YR4/2		FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No -11 -53 3i	WCI 1	Droughtiness	3b	_	14-027
		22 35 13	10YR5/2	No	FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		35 65 30	10YR6/4		FS - Fine 0		iravel with non-porous (hard) stor		Moderate NON	- Non-cal	No					
		65 120 55	7.5YR6/6	No	SCL - San 0	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
					1 1											
	-2	0 35 35	10YR4/2		MSL - Me 20	11 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Not Applic N∩N	- Non-cal	No 14 -16 3:	WCIII 1	Droughtiness	3a	+	14-032
TO 58732 84323 558732 184323 25	2/	25 70 25	10YR5/3 MP - N 7.5YR5/6	Yes	C - Clay 1	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	Yes			50		552
TQ 58732 84323 558732 184323 25	5/				1 7 1	UD A	Il hard rocks or stones (i.e. those	which cannot be ceratched w	datadamin NON	Jan.	1		1		1	
TQ 58732 84323 558732 184323 25	2/	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	nn-A	il liard rocks or stories (i.e. those	willen carmot be scrattiled w	INON STATE INON	- IVINO	No				1	
TQ 58732 84323 558732 184323 25	21	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	nr-A	in hard rocks or stones (i.e. those	which callifor be scratched w	il Moderate INON	- INNO	No					
TQ 58732 84323 558732 184323 25	5/	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	пк- <i>н</i>	irriard rocks or stories (i.e. triose	which cannot be scratched w	niwoderate NON	- NNO	No					
TQ 58732 84323 558732 184323 25	21	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	nk - <i>p</i>	in naturous or stones (i.e. those	which cannot be scratched w	il Moderate NON	- NNO	No					
TQ 58732 84323 558732 184323 25		70 120 50 0 30 30	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1		Il hard rocks or stones (i.e. those				No 21 -15 3:	a WCI 1	Droughtiness	3a		14-033

Point Grid ref. Alt (m) Slope Aspect	Land use Depth (cm) Matrix Ochreous Mottles Grey Mo		Ped SUBS STR CaCO3 Mn C SPL Drought Wet	Final ALC	Profile notes Client
NGR X Y ALL (III) Slope Aspect	Top Bttm Thick Munsell colour Form Munsell colour Form Munsel	colour ` % > 2cm > 6cm Type % > 2cm > 6cm Type Strength	Size Snape	Limitation 1 Limitation 2 Limitation 3 Grade	Ref.
	45 70 25 10YR5/3 CP - Cc 7.5YR5/6	Yes SC - Sand 1 HR - All hard rocks or stones (i.e. those which cannot be			
	70 120 50 7.5YR5/6	No SCL - San 1 HR - All hard rocks or stones (i.e. those which cannot be	e scratched wi Moderate NON - NO No		
L5 TQ 58532 84323 558532 184323 23 ≤7	0 34 34 10YR4/2	MSL - Me 1 HR - All hard rocks or stones (i.e. those which cannot be	pe scratched wi Not Applic NON - Non-cal No 30 -9 2 WC I 1	Droughtiness 2	14-03
	34 70 36 10YR4/4	No MSL - Me0 HR - All hard rocks or stones (i.e. those which cannot be	ue scratched wir Moderate NON - NNo No		
	70 120 50 7.5YR5/6	Yes SCL - San 0 HR - All hard rocks or stones (i.e. those which cannot be	ue scratched wir Moderate NON - NNo No		
6 TQ 58432 84323 558432 184323 21 ≤7	0 34 34 10YR4/2	MSL - Me 2 HR - All hard rocks or stones (i.e. those which cannot b	pe scratched wi Not Applic NON - Non-cal No 13 -10 3a WC II 1	Droughtiness 3a	14-03
	34 70 36 10YR4/4	No MSL - Me2 HR - All hard rocks or stones (i.e. those which cannot be	ue scratched wi Moderate NON - NNo No	_	
	70 120 50 10YR6/4 CD - C: 10YR5/6	Yes C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be			
17 TO 58632 84423 558632 184423 25 ≤7	0 24 24 7.5YR4/2	No MSL - Me8 4 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No 14 -19 3a WC III 2	Droughtiness 3a	14-04
17 14 30032 01123 330032 101123 23	24 50 26 7.5YR5/2	No MSL - Me 10 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	Droughtiness 3	1404
	50 120 70 7.5YR5/3	No SCL - San 10 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
	30 120 70 7.31K3/3	No See - Sail 10 Gill - Graver with non-porous (nard) stories	Woderate Wow - Worl-Calino		
8 TO 58532 84423 558532 184423 23 ≤7	0 22 22 10YR4/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -55 -73 4 WC I 1	Droughtiness 4	14-04
10 10 30332 04423 330332 104423 23	22 35 13 10YR5/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	Di dagitaness	1404
	35 50 15 10YR6/4	No FS - Fine 50 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
	50 120 70 7.5YR6/6	No SCL - San 50 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
	30 120 70 7.51K0/0	No Scc - Sali So Gil - Graver with non-porous (nard) stones	Widdelate WOW - Wolf-Call NO		
19 TO 58432 84423 558432 184423 21 ≤7	0 22 22 100/04/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -53 -74 4 WC I 1	Droughtiness 4	
19 TQ 58432 84423 558432 184423 21 ≤7	0 22 22 10YR4/2 22 35 13 10YR5/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Not Applid NON - Non-cal No -53 -74 4 WC I 1 Moderate NON - Non-cal No	prougntiness 4	14-04
			Moderate NON - Non-cal No Moderate NON - Non-cal No		
	35 65 30 10YR6/4	No FS - Fine 50 GH - Gravel with non-porous (hard) stones			
	65 120 55 7.5YR6/6	No SCL - San 50 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
END					

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name			Parcel	
19	C629 LTC ALCSP	19			19
Date of Survey	Survey Type		Surveyor(s)	Cor	mpany
25/03/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ58438412			RM15 5SD	20	12.10000038
MAFF prov		MAFF detailed	b	Flooding	
Grade 3		None		Flood Zone 1	
		<u> </u>		<u> </u>	
AAR	AT0	MDw	MDp	FCD	Climate grade
588	1476	123	120	105	1
Bedrock			C	-: L o	
			Superficial depos	SITS	
Thames Group			None		
Soil association(s) 1	:250.000		Detai	led soil information	
Shabbingdon			None		
Revision Number			Date Revised		
1			15/03/2019		

Company Comp	Grid ref.	Depth (cm) Matrix Ochreous Mottles Grey Mottles	Class Teachure Stones - type 1 Stones - type 2	Ped SUBSITE COCO No. C. COL Drought Wet	Final ALC Client
Company Comp	NGR X Y Alt (m) Slope Aspect Land u	Top Bttm Thick Munsell colour Form Munsell colour Form Munsell colour	Gley Texture % > 2cm > 6cm Type % > 2cm > 6cm Type Str	rength Size Shape SUBS STR CaCO3 Mn C SPL MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade Profile notes Ref.
2	I TQ 58432 84123 558432 184123 20 ≤7			Not Applid NON - NNO NO 11 -10 3a WC III 3a	Droughtiness Wetness 3a 14-019
System S			Yes SCL - San 1 GH - Gravel with non-porous (hard) stones	Moderate NON - No No	
1		50 120 /0 /.5YR5/3 MD - Many Distinct	res C - Clay 1 GH - Gravel with non-porous (hard) stones	Moderate NON - NYes No	
1					
1					
1					
Part Part	TQ 58419 84221 558419 184221 20 ≤7		MSL - Me5 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Not Applic NON - Non-cal No 14 -10 3a WC I 1	Droughtiness 3a 14-02
## 15182-9612-9612-9612-9612-9612-9612-9612-961					
10 10 10 10 10 10 10 10		60 120 60 10YR4/6	No C - Clay U HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wil Moderate NON - Non-cal No	
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10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10	TQ 58332 84223 558332 184223 20 ≤7			Not Applic NON - No No 11 -10 3a WC III 3a	Droughtiness Wetness 3a 14-02
10,000 1		25 50 25 7.5YR5/6 CD - Common Distinct	Yes SCL - San 1 GH - Gravel with non-porous (hard) stones	Moderate NON - NNo No	
12 22 23 23 23 23 23 23		50 120 /0 /.5YR5/3 MD - Many Distinct	Yes C - Clay 1 GH - Gravel with non-porous (hard) stones	Moderate NUN - NYes No	
12 22 23 23 23 23 23 23					
12 22 23 23 23 23 23 23					
12 22 23 23 23 23 23 23					
Company Section Sect	TQ 58332 84323 558332 184323 21 ≤7	0 35 35 10YR4/2	SCL - San 5 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Not Applic NON - Non-cal No 0 -19 3a WC III 3a	Droughtiness Wetness 3a 14-03
10 10 10 10 10 10 10 10					
10,000 1		70 120 50	C - Clay 5 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wir Poor	
10,000 1					
10,000 1					
10,000 1					
10 10 10 10 10 10 10 10	TQ 58332 84423 558332 184423 21 ≤7		MCL - Cla 12 6 HR - All hard rocks or stones (i.e. those whic	ch cannot be scratched wi Not Applic NON - Non-ca No 24 -10 2 WC I 1	Droughtiness 2 14-04-
10.3853.8403.55852.38403.25 2 2 2 50 May 2 2 50 May 2 3 50 May 2 5		30 75 45 10YR4/3	No MCL - Cla 3 HR - All hard rocks or stones (i.e. those whic	ch cannot be scratched wi Moderate NON - NO No	
10 10 10 10 10 10 10 10		75 120 45 10YR4/6	No MCL - Cla 2 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Moderate NON - NO No	
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10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10	TO 58632 84523 558632 184523 25 <7	0 22 22 10YR4/2	No FSI - Fine 10 HR - All hard rocks or stones (i.e. those which	th cannot be scratched wit Not Applic NON - Non-cal No. 42 -6 2 WC III 2	Droughtiness Wetness 2 14-04:
Record Process Proce			No SCL - San 15 HR - All hard rocks or stones (i.e. those whic	th cannot be scratched wil Good NON - Non-cal No	
10 10 10 10 10 10 10 10		48 120 72 10YR4/1 MD - Many Distinct		ch cannot be scratched wil Good NON - Non-cal No	
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10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10	7 TO 58532 84523 558532 184523 23 <7	0 25 25 10YR4/2	No. FSI - Fine 10 HR - All hard rocks or stones (i.e. those which	th cannot be scratched wit Not Applic NON - Non-cal No. 42 -6 2 MC III 2	Droughtiness Wetness 2 14-050
Fig. 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 7		25 50 25 10YR4/1	No SCL - San 15 HR - All hard rocks or stones (i.e. those which	th cannot be scratched wil Good NON - Non-cal No	14-030
TO 5842 8622 55842 18623 21 27			Yes SCL - San 15 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Good NON - Non-cal No	
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2					
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2					
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2					
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2	TO COADO OACOD CCOADO 10ACOD DA -7	0 26 26 10VPA/2	No ESI Sing 10 6 2 GU Consolicità non parece // Consolicità	Not Applie NON . No. 14 40 3 WG W 3	Droughtiness Wetness 2 14-05:
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2	14 20424 04523 558432 184523 21 5/			Moderate NON - NNo No No 11 -10 2 WC III 2	Drougnuness weiness 2 14-05:
TQ.58142 96523 558142 184523 21 57				Moderate NON - NYes No	
25 48 23 7.5/18/5 7.5/18/5 7.5/18/5 7.5/18/5 MD - Many Distinct Ves C. Clay 1 OH - Gravel with non-porous (hard) stones Moderate NON - Ne No No No No No No No					
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48 120 72 75/85/3 MD - Many Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - NVes No	1Q 58342 84523 558342 184523 21 S/		NO IFSL - FIRE 10 6 2 GH - Gravel with non-porous (hard) stones	Not Appliq NON - NNO NO 11 -10 2 WC III 2	Droughtiness Wetness 2 14-05
TQ.58529 84610 558629 184610 25 ≤7 0 24 24 107R4/2 24 50 25 757R5/6 MD - Many Distinct CD - Common Distinct TQ.58529 84623 558422 184623 24 ≤7 0 25 25 107R4/2 25 50 25 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 12 64 26 107R4/2 26 50 25 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
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TQ 58529 84610 558529 184610 24 \$7					
TQ 58529 84610 558529 184610 24 \$7					
TQ 58529 84610 558529 184610 24 \$7					
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END					
END					
END END					
	END				+ + + + + + + + + + + + + + + + + + + +
	LIND	1		1 1 1 1	

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

-За

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel				
20	C629 LTC ALCSP	20			20				
Date of Survey	Survey Type		Surveyor(s)		npany				
25/03/2019			RA	Aske	ew Land and Soil				
Weather		Relief		Land use and ve	agetation				
Dry, Sunny		Level		LEY (Ley Grass)	getation				
		•		•					
Grid Reference			Postcode	Altitude	Area				
TQ58238462			RM14 2TZ	22	33.90000153				
MAFF prov		MAFF detailed	d	Flooding	;				
Grade 3		None		Flood Zone 1					
AAR	AT0	MDw	MDp	FCD	Climate grade				
794	1431	92	81	188	1				
Bedrock			Superficial depo	sits					
THAMES GROUP			None						
Soil association(s) 1	:250,000		Detailed soil information						
Shabbington/Winds	sor		None						
Revision Number			Date Revised						
1			15/03/2019						

	Coldand				ath (ana)		Orbert and Matter	Complement			1	Ch h		Channe have 2	D-1			т т	Danisht	187-0	Final ALC		
Point	Grid ref. NGR X Y	lt (m) Slope	 Aspect Land use 	Ton	otn (cm)	Matrix	Ochreous Mottles ur Form Munsell colour	Grey Mottles	Gley	Texture	% > 2	Stones - typ	Type	Stones - type 2 % > 2cm > 6cm Type	Strength Size Shape SUBS STR	CaCO:	Mn C	SPL	Drought w MBn Gd	Wet WC Gw	Limitation 1 Limitation 2 Limitation	3 Grade	Profile notes
	TQ 58232 84623 558232 184623 22	2 ≤7	-1	0	23 23	10YR4/2					le 10 6	2	GH - Gr	avel with non-porous (hard) sto	nes Not Appli	c NON -	NNo	No 39	27 1	WC III 3a	Wetness	3a	
				23	50 27	7.5YR5/6	CD - Common Distinct			SCL - Sai			GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NNo	No					
				50	120 70	7.5YR5/3	MD - Many Distinct		Yes	C - Clay	1		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NYes	No					
	TQ 58254 84725 558254 184725 22	2 ≤7		0	25 25	10YR4/2					le 10 6	2		avel with non-porous (hard) sto	nes Not Appli	c NON -	No	No 40	27 1	WC III 3a	Wetness	3a	
				25	17 22	7.5YR5/6 7.5YR5/3	CD - Common Distinct MD - Many Distinct		Yes	SCL - Sai C - Clay	n 1		GH - Gr	avel with non-porous (hard) storage with non-porous (hard) storage	nes Moderate nes Moderate			No					
				47	120 /3	7.5YK5/3	IVID - IVIANY DISTINCT		res	C - Clay	1		GH - GI	avei with non-porous (nard) sto	nes Moderate	NUN -	ryes	INO					
	TQ 58232 84823 558232 184823 26	5 ≤7		0 26	26 26	10YR4/2 7.5YR5/6	CD - Common Distinct			MSL - M SCL - Sai	16 10 6	2		avel with non-porous (hard) sto avel with non-porous (hard) sto		C NON -	NNo	No 39	27 1	WC III 3a	Wetness	3a	
						7.5YR5/6 7.5YR5/3	MD - Many Distinct			C - Clay				avel with non-porous (nard) sto		NON -	NVes	No.					
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	TQ 58132 85023 558132 185023 20	0 67		n	00 20	10YR4/2			No	MACI - MA	le 10 6	2	GH . Gr	avel with non-porous (hard) sto	nes Not Appli	c NON -	N No	No. 41	26 1	WCII 2	Wetness	2	
	1030132 03023 330132 103023 20	0 3/		28	8 30	7.5YR5/6	CD - Common Distinct		Yes	SCL - Sai	n 1	2		avel with non-porous (hard) sto		NON -	NNo	No 41	20 1	WCII 2	wethess	ľ	
				58	120 62	7.5YR5/3	MD - Many Distinct			C - Clay				avel with non-porous (hard) sto		NON -	NYes	No					
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								1															
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				24	0 26	7.5YR5/6	CD - Common Distinct	1	Yes	SCL - Sai	n 1		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NNo	No	=				
				50	120 70	7.5YR5/3	MD - Many Distinct	1	Yes	C - Clay	1		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NYes	No					
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	TQ 58132 85123 558132 185123 20	0 ≤7		0	30	10YR4/2				MSL - M			HR - All	hard rocks or stones (i.e. those	which cannot be scratched wil Not Appli	c NON -	Non-ca	No 10	12 2	WC II 1	Droughtiness	2	
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						10YR5/4 10YR5/3	CD - Cr5YR5/6 MD - N5YR5/8	CD - Cc2.5YR5/2 MD - N2.5YR6/1		SCL - Sai C - Clay				avel with non-porous (hard) sto		NON -	Non-ca	INO INO					
				54	20 00	101113/3	WID - FSTRS/6	WID - 112.311(0/1	163	C - Clay	10		dii-di	aver with hon-porous (hard) sto	iviodel ace	- NON	l	140					
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	103013203223 330132 103223 20	J 3/		35	0 15	10YR4/4			No	MSL - M	162		HR - All	hard rocks or stones (i.e. those	which cannot be scratched without Appli	NON -	NNo	No 30	23 1	WC1 I		ľ	NO IIIIItations
				50	30 30	7.5YR5/3	CD - Ci 7.5YR5/6		Yes	HCL - Cla	ay 1		HR - All	hard rocks or stones (i.e. those	which cannot be scratched will Moderate	NON -	NNo	No					
				80	120 40		CD - Ci 7.5YR5/6		Yes	SCL - Sai	n 1		HR - All	hard rocks or stones (i.e. those	which cannot be scratched will Moderate	NON -	No	No					
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				24	8 34	10YR5/4		1	No	C - Clay	4		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	Non-ca	No					
				58	120 62	10YR5/4	FD - Few Distinct	FD - Few Distinct	Yes	C - Clay	4		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	Non-ca	No					
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						7.5YR5/4		1		HCL - Cla					which cannot be scratched will Moderate								
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								1															
									<u> </u>														
	TQ 58032 85323 558032 185323 20	0 ≤7				10YR4/2 7.5YR4/4				SCL - Sai HCL - Cla			HR - All	hard rocks or stones (i.e. those	which cannot be scratched will Not Appli which cannot be scratched will Moderate	NON -	Non-ca	No 39	27 1	WCI 1		1	No limitations
						7.5YR4/4 7.5YR5/4			No No	C - Clay							NNO NYes						
					5						ſ		/30		l l l l l l l l l l l l l l l l l l l		1.23						
								1															
				n	22 22	10YR4/2		1	No	MSL - M	146		GH . C	avel with non-porous (hard) sto	nos Not Annii	NON	N No	No. 52	24 1	WCIII 22	Wetness	22	
	TO 50222 05/22 550222 405/22 24			22	18 26	7.5YR5/6	CD - Common Distinct		Yes	SCL - Sai	n 6		GH - Gr	avel with non-porous (hard) sto avel with non-porous (hard) sto	nes Not Appli nes Moderate	NON -	NNo	No 53	24 1	WCIII 3a	AACTIG22	bc	
	TQ 58332 85423 558332 185423 21	1 ≤7				7.5YR5/3	MD - Many Distinct	1	Yes	SCL - Sai	n 1			avel with non-porous (hard) sto				No		1	T.	- 1	1
	TQ58332 85423 558332 185423 21	1 ≤7		48	120 72	7.51N3/3																	
	TQ5833285423 558332 185423 21	1 ≤7		48	120 72	7.5185/5	,																
	TQ 58332 85423 558332 185423 21	1 ≤7		48	120 72	7.5113/5	,																
	TQ 58332 85423 558332 185423 21	1 ≤7		48	120 72	7.3163/3																	
				48			,					0	GH - Gr	avel with non-porous (hard) sto	nes Not Appli	c NON -	N No	No 38	26 1	WC III 3a	Wetness	3a	
	TQ 58332 85423 558332 185423 21 TQ 58232 85423 558232 185423 23			0 24	24 24 50 26	10YR4/2 7.5YR5/6 10YR6/3	CD - C: 7.5YR5/6	CD - Cc2.5YR5/2 CD - Cc2.5YR5/2	No Yes		le6 2 n 5	0	GH - Gr	avel with non-porous (hard) sto avel with non-porous (hard) sto avel with non-porous (hard) sto	nes Moderate	NON -	NNo	No	26 1	WC III 3a	Wetness	3a	

	Grid ref			Do	ath (cm	۱ ۱	Matrix	Ochreous Mottles	Grey Mottles		1	Stones - type	1 Stone	- type 2	Ped					Drought	Wet	Final	ALC.	1
oint	NGR X Y	(m) Slo	pe ^o Aspect Land use					Form Munsell colour		Gley	Texture	% > 2cm > 6cm	Type % > 2cm	o - type 2 o 6cm Type		Shape SUBS STR	CaCO3	Mn C		w MBp Gd		Limitation 1 Limitation 2		Profile notes
_	TQ 58132 85423 558132 185423 20	≤7			0 3	0 1	10YR4/2				FSZL - Fi	• 2	HR - All hard rocks or st	ones (i.e. those w	thich cannot be see	ratched witNot Appli	C NON -	Non-cal	INO 54	42 1	WCII 1		1	No limitations
	Q 30132 03423 330132 103423 20	5/		0 5	0 2	0 1	10YR5/4			No	MCL - CI	0	HR - All hard rocks or st	ones (i.e. those w	hich cannot be sci	ratched wit Moderate	NON -	N No	No 34	42 1	WCII 1		ľ	NO IIIIItations
			5	0 1	20 7	0 1	10YR5/3	CD - Ci 10YR5/6		Yes	C - Clay	0	HR - All hard rocks or st	ones (i.e. those w	which cannot be sci	ratched witPoor	NON -	NNo	Yes					
_	TO 58032 85423 558032 185423 20				0 2	0 1	10YR4/3				SCL - Sai		HR - All hard rocks or st	anar (i a thara w	shich connet be co	catched withlet Appli	o NON	Non col	No 20	27 1	WCI 1			No limitations
	Q 38032 83423 338032 183423 20	2,	3	0 5	0 2	0 1	10YR4/4			No	MCL - CI	0	HR - All hard rocks or st	ones (i.e. those w	hich cannot be sci	ratched wit Moderate	e NON -	NNo	No 33	27 1	WC1 1		Ť	NO IIIIII BLIOIIS
			5	0 1	20 7	0 1	10YR5/5			No	C - Clay	0	HR - All hard rocks or st	ones (i.e. those w	hich cannot be sc	ratched wil Poor	NON -	NNo	No					
-	TQ 58332 85523 558332 185523 22	≤7								-														
	Q 38332 63323 338332 163323 22	۵,																						
_	TQ 58232 85523 558232 185523 22	-7		- 1	1 2	4 1	10YR4/2			No	MSL - M	6 2 0	GH - Gravel with non-p	arous (hard) ston	oc.	Not Appli	C NON -	N No	No. 29	26 1	WCIII 2a	Wetness	22	
	Q 30232 33323 330232 103323 22	2/	2	4 5	0 2	6 7	7.5YR5/6	CD - Cı 7.5YR5/6	CD - Cc2.5YR5/2	Yes	SCL - Sai	5	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	NNo	No	20 1	···CIII Jd	***************************************	Ja	
			5					CD - Cr7.5YR5/6	CD - Cc2.5YR5/2		C - Clay		GH - Gravel with non-p			Moderate								
												1												
_	TQ 58132 85523 558132 185523 19	<7		. 1	4 2	4 1	10YR4/2			No	MSL - M	6 2 0	GH - Gravel with non-p	orous (hard) ston	es	Not Appli	C NON -	NNo	No 30	26 1	WC III 3a	Wetness	22	
	Q3013203323 330132 103323 13	2,	2	4 5	0 2	6 7	7.5YR5/6	CD - Ct 7.5YR5/6	CD - Cc2.5YR5/2	Yes	SCL - Sai	5	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	NNo	No	20 1	WCIII 38	wedless	34	
			5	0 1	20 7	0 1	10YR6/3	CD - Cı 7.5YR5/6	CD - Cc2.5YR5/2	Yes	C - Clay	4	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	NYes	No					
_	TQ 58032 85523 558032 185523 19	-7			0 3	0 1	10YR4/2				MCL - CI	11	HR - All hard rocks or st	ones (i.e. those w	thich cannot be see	ratched witNot Appli	C NON -	Non-cal	No. 42	20 1	WCIII 2a	Wetness	22	
	Q 30032 03323 330032 103323 19	5/			0 2		101R4/2 10YR5/3	CD - C: 10YYR5/6			HCL - Cla		HR - All hard rocks or st	ones (i.e. those w	hich cannot be sci	ratched witModerate	NON -	NYes	No 42	50 1	WCIII 3a	wetness	3d	
			5	0 1	20 7	0 1	10YR5/3	MP - N 7.5YR5/6		Yes	C - Clay		HR - All hard rocks or st				NON -							
_	TQ 57932 85523 557932 185523 19	-7			7 2	7 1	10YR4/2				HCL - Cla		HR - All hard rocks or st	ones (i.e. those w	thich cannot be see	ratched witNot Appli	C NON -	Non-cal	lcarev 20	27 1	WC III 2h	Wetness	2h	
	Q3/33283323 33/332 183323 13	2,						CD - C: 10YR5/6		Yes	C - Clay		HR - All hard rocks or st	ones (i.e. those w	hich cannot be sci	ratched will Poor		N No		27 1	WC III 3D	wedless	35	
-	TQ 58332 85623 558332 185623 22	<7	0		0 3	0 1	10YR4/2			No	MSL - M	10 6 1	GH - Gravel with non-p	orous (hard) ston	es	Not Appli	c NON -	Non-cal	No 0	-8 3a	WCI 1	Droughtiness	3a	
	Q 3033E 030E3 33033E 1030E3 EE		3	0 5	0 2	0 7	7.5YR5/6	CD - Cı 7.5YR4/6		Yes	MS - Me	10	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	Non-cal	No	0 30		Droughtmess	30	
			5	0 1	20 7	0 7	7.5YR5/3	MD - 1 2.5YR5/6		Yes	MS - Me	10	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	Non-cal	No					
												1												
												1												
_	TQ 58232 85623 558232 185623 22	≤7	10		4 2	4 1	10YR4/2		 	No	MSL - M	4 2 0	GH - Gravel with non-p	orous (hard) ston	es	Not Appli	c NON -	Non-cal	No. 42	29 1	WC III 3a	Wetness	3a	
		2/		4 5	8 3	4 1	10YR5/4	CD - Cı 7.5YR5/6	CD - Cc2.5YR6/2	Yes	C - Clay	4	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	Non-cal	No	1	30		Ja	
			5	8 1	20 6	2 1	10YR5/4	FD - Few Distinct	FD - Few Distinct	Yes	C - Clay	4	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	Non-cal	No					
												1												
												1												
_	TQ 58132 85623 558132 185623 22	<7			2 2	2 1	10YR4/2			+	FSZL - Fi	12	HR - All hard rocks or st	ones (i.e. those u	hich cannot be see	ratched witNot Appli	C NON -	Non-cal	No 40	37 1	WCIII 2	Wetness	- 2	
	Q 30132 33023 330132 103023 22	2/	3				2.5Y6/3	MP - 1.7.5YR5/6		Yes	C - Clay	0	HR - All hard rocks or st				NON -	No	Yes	3, 1		***************************************	ŕ	
												1												
												1												
_	TQ 57932 85623 557932 185623 19	≤7			0 3	0 1	10YR4/2		 	+	C - Clay	1	HR - All hard rocks or st	ones (i.e. those u	hich cannot be see	ratched witNot Appli	C NON -	Non-cal	No 3/4	22 1	WC III 3h	Wetness	2h	
	Q3,33233023 33/332 103023 13	2/	3					CD - Cı 7.5YR5/6		Yes	C - Clay	o	HR - All hard rocks or st	ones (i.e. those w	hich cannot be sci	ratched wil Poor		N No		22 1	JD	***************************************	30	
												1												
												1												
												1												
		≤7			2 3	2 1	10YR4/2			+	SCL - Sai	2	HR - All hard rocks or st	ones (i.e. these ::	thich cannot be see	ratched without Appli	CNON	Non-cal	No 27	24 1	WCIII 2°	Wetness	2h	
	O 50122 05722 550122 105722 16		U	- 3	ے 5	4 1	1011/4/2			1	SCL - Sai	12	III - All Haru FUCKS OF ST	ones (i.e. those w	thich cannot be se	ratched witModerati	CINON -	.I	3/	24 1	vvc III 58	AA CUIG22	lan lan	
_	TQ 58132 85723 558132 185723 16	2,	3	2 5	0 1	8 2		MP - N 7.5YR5/6		Yes	SCL - Sai	14					e MON -	NNO	No					
	FQ 58132 85723 558132 185723 16	21	5	2 5	0 1	0 2	2.5Y6/1	CP - Ct 7.5YR5/6		Yes	SC - San	13	HR - All hard rocks or st	ones (i.e. those w	hich cannot be sci	ratched witPoor	NON -	NNo	Yes					
	TQ5813285723 558132 185723 16	2,	5	2 5	0 1	0 2				Yes		13		ones (i.e. those w	hich cannot be sci	ratched witPoor		NNo	Yes Yes					

oint	Grid ref.	Alt (m) Flanc O Aspect Land	Depth (cm) Matrix	Ochreous Mottles	Grey Mottles	Gley Texture	Stones - type 1	Stones - type 2	Ped	SLIDS STD COCO2 Mo C SE	Drought	Wet	Final ALC	Profile notes
NGR	X Y	rac (m) Slope Project Land	Top Bttm Thick Munsell colou	r Form Munsell colour	Form Munsell colour	Gicy Texture	% > 2cm > 6cm Type	% > 2cm > 6cm Type	Strength Size Shape	SOBS SIN CACOS INII C SI	MBw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade	Tome notes
END														

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

 $WC\,V$

WC VI

ALC Grades

1

3a

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel	
ALCSP11	C629 LTC ALCS	P11			ALCSP11	
	•		<u> </u>	1		
Date of Survey	Survey Type		Surveyor(s)		npany	
21/02/2019			RWA	Ask	ew Land and Soil	
Weather		Relief		Land use and v	egetation	
Dry, Sunny		Level		LEY (Ley Grass)		
Grid Reference			Postcode	Altitude	Area	
TQ67237722			RM188QP	6	26.5	
MAFF prov		MAFF detailed				
Grade 2/3		None				
AAR	АТО	MDw	MDp	FCD	Climate grade	
558	1493	128	126	103	1	
Bedrock			Superficial depo	sits		
Lewes Nodular Cha	lk/Seaford Chalk/N	lewhaven Chalk	Alluvium			
Soil association(s) 1	·250 000		Deta	iled soil information		
Wallasea 1	230,000		None			
			<u></u>			
Revision Number			Date Revised			
1			06/02/2019			

NGR X Y	(m) Slope O Aspect Land us	e Ton let	ttm Thiel	Matrix k Munsell colou	r Form Munsell co	les Grey Mottles lour Form Munsell cold	Gley	Texture Stor	nes - type 1 Stones - type 2 > 6cm Type % > 2cm > 6cm Type Strength HR - All hard rocks or stones (i.e. those which cannot be considered by the considered by	Ped SUBS STR	CaCO3 Mn C	SPL MBw MPs	Gd WC Gw	Final ALC	3 Grade Profile notes	Client Ref.
TQ 67232 77223 567232 177223 6	≤7	TOP DO		10YR4/2	ii i oriii ividiiseii co	ioui i oiiii iviuiiseii coio	Jui	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - Non-ca	No -2 -22	3a WC III 3b	Wetness	3b	10-050
				2.5Y4/3				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wit Moderate	e NON - NNo	Yes				
		35 12	20 85	5Y6/2	CP - Ct 7.5YR5/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor	NON - NYes	Yes				
TQ 67132 77223 567132 177223 0	≤7			10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann				3a WC III 3b	Wetness	3b	10-051
				2.5YR5/2	MD - 1 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann		NON - NYes	Yes				
		33 12	20 87	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Poor	NON - NYes	Yes				
TO 67032 77223 567032 177223 2	<7	0 27	7 27	10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which can	not he scratched wit Not Anni	ic NON - NNo	No -3 -24	3a WCIII 3h	Wetness	3h	10-052
100,032,7723,30,032,17723,2				2.5Y5/2	MP - N 7.5YR4/6			C - Clay 0	HR - All hard rocks or stones (i.e. those which can	not be scratched wi Poor	NON - NYes	Yes	30 100 111 30			20 032
TQ 66932 77223 566932 177223 2	≤ 7	0 28	8 28	10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - NNo	No -3 -24	3a WC III 3b	Wetness	3b	10-053
	-	28 12	20 92	2.5Y5/3	MP - N 7.5YR5/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wir Poor	NON - NYes	Yes				
TQ 66632 77223 566632 77223 2	≤ 7	0 30	0 20	10YR4/1			No	C - Clay 0	HR - All hard rocks or stones (i.e. those which can	not be scratched wit Not Appli	ic NON - NNo	No 10 -12	3a WCIII 3h	Wetness	3h	9-050
0003277223 300032 77223 2		20 35	5 15	10YR4/2	MD - 1 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wir Moderate	e NON - NNo	No -12	I**CIII 30			3-030
		35 50) 15	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e NON - NNo	No				
		50 12	.u /0	2.5YR5/1	VP - Very many Pr	umment	Yes	C - Clay	нк - All nard rocks or stones (i.e. those which cann	ioi de scratched wil Moderati	e NUN - Non-ca	INO				
TQ 67332 77323 567332 177323 6	- 7	0	0 10					C - Clay				-111 -109	4		Non-Ag No Site Access (Mott)	10-056
14 0/332 //323 30/332 1//323 6	2/	0 10	, 10					C - Clay				-111 -109	-		INO SILE ACCESS (MOTT)	10-026
TO 67232 77323 567232 177323 6		0 11	0 10					C - Clav				-111 -109			Non-Ag No Site Access (Mott)	10-057
146/232 //323 56/232 1//323 6	5/	0 10	, 10					c - clay				-111 -109	4		NO SITE Access (Mott)	10-057
TQ 67132 77323 567132 177323 0	≤7	0 18	3 18	10YR4/2 2.5YR5/2	MD - 1 5YR4/6		No	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which can HR - All hard rocks or stones (i.e. those which can	not be scratched wi Not Appli	ic NON - NNo	No 10 -12	3a WC III 3b	Wetness	3b	10-058
		30 12	20 90	2.5YR5/2 2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e NON - NNo					
TQ 67032 77323 567032 177323 2	≤7	0 20) 20	10YR4/2 10YR5/3	CD - C: 10YR5/6	CD - Cc2.5Y6/2	v	C - Clay 0	HR - All hard rocks or stones (i.e. those which can	not be scratched wi Not Appli	ic NON - Non-ca		3a WC III 3b	Wetness	3b	10-059
		40 12	20 80	10YR5/3 5Y5/2	MP - N 7.5YR5/6	CD - C(2.5Y6/2	Yes	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor not be scratched will Poor	NON - NNo NON - NNo	Yes Yes				
		1														
TQ 66932 77323 566932 177323 2	≤7			10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - Non-ca	No 46 -7	2 WC II 3a	Wetness	3a	10-060
		28 40) 12	2.5Y5/3 2.5Y6/3	CD - C: 10YR5/6 MP - N 10YR5/8	CD - Cc2.5Y6/1	Yes	C - Clay 0 HZCL - Sil 0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor	NON - NYes	Yes				
		60 12	20 60	2.5Y6/3 2.5Y6/2	CP - Ct 10YR4/6			ZL - Silt Ic0	HR - All hard rocks or stones (i.e. those which cann HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e VC - VerNo	No				
					. ,-											
TQ 66832 77323 566832 177323 2	≤7			10YR4/2	CD - C: 5YR5/1		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Not Appli	ic NON - NNo	No 6 -16	3a WC II 3a	Wetness	3a	10-061
				2.5YR5/2	MD - 1 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched will Poor	NON - NNo	Yes				
		35 12	:u 85	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched will Moderate	e NON - NNo	NO				
TQ 66732 77323 566732 177323 2	≤ 7	0 29	5 25	10YR4/2				C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wit Not Annii	ic NON - NNo	No -4 -25	3a WC III 3b	Wetness	3b	10-062
500/32 1//323 2		25 35	5 10	2.5Y4/3			No	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wir Poor	NON - NNo	Yes				10 002
		35 12	20 85	5Y6/2	CP - Ct 7.5YR5/8		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Poor	NON - NNo	Yes				
	- 7	0 20	0 20	10YR4/1			B.I.o.	C - Clay 0	UP All hard rocks or steems /: a share . http://www.	not be constabled	ic NON . NA	No. 10. 12	22 M/C III 21	Wetness	2h	9-052
TO 66622 77222 F66622 477222 2	5/			10YR4/1 10YR4/2	MD - 1 5YR4/6		Yes	C - Clay 0 C - Clay 0	HR - All hard rocks or stones (i.e. those which can HR - All hard rocks or stones (i.e. those which can	not be scratched without Appli not be scratched withoderate	e NON - NNo	No 10 -12	Ja VVCIII 30	**ETHE22	30	9-052
TQ 66632 77323 566632 177323 2		38 50	0 12	2.5YR5/1	MP - N 5YR4/6		Yes	C - Clay 0	HR - All hard rocks or stones (i.e. those which cann	not be scratched wit Moderate	e NON - NNo	No				
TQ 66632 77323 566632 177323 2		ISO 17	20 70	2.5YR5/1	VP - Very many Pr	ominent	Yes	C - Clay	HR - All hard rocks or stones (i.e. those which cann	not be scratched wi Moderate	e NON - Non-ca	No				
TQ 66632 77323 566632 177323 2		30 11														
TQ 66632 77323 566632 177323 2		50 11														
TQ 66632 77323 566632 177323 2 TQ 67132 77423 567132 177423 3			0 10					C - Clay				-111 -109			Non-Ag Non-agriculutral	10-063

Grid ref.	Depth (cm) Matrix	Ochreous Mottles Grey Mottles	.	Stones - type 1 Stones - type 2 Ped Drought Wet Final ALC	Client
		Form Munsell colour Form Munsell colour	Gley Texture	re Sudies type 1 Stories type 2 Peu Substitution 1 Size Shape Substitution 2 Shape Substitution 2 Shape Substitution 2 Shape Substitution 3 Substitution 3 Shape Shape Shap	Ref.
	20 32 12 2.5YR5/2	MD - 1 5YR4/6	No C - Clay Yes C - Clay Yes C - Clay	y D HR - All hard rocks or stones (i.e. those which cannot be scratched wij Moderate NON - NO NO	10-064
The state of the s	0 30 30 2.5Y4/2 30 50 20 2.5Y4/2 50 120 70 5Y5/2		C - Clay No C - Clay Yes C - Clay	y 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Moderate NON - NO No	10-065
-	0 24 24 10YR4/2 24 50 26 5Y5/2 50 120 70 5Y6/1		Yes C - Clay Yes C - Clay	y 0 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Poor NON - NYes Yes	10-066
.8 TQ 66732 77423 566732 177423 4 ≤7 0 3	0 35 35 10YR4/2 35 120 85 2.5Y5/3	MP - N 10YR5/6 CD - Cr5Y6/1	C - Clay Yes C - Clay		10-067
		MD - N 5YR4/6	No C - Clay Yes C - Clay Yes C - Clay	y 0 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Moderate NON - NO	10-068
10 TQ 66932 77523 566932 177523 3 ≤7 0 3	0 35 35 10YR4/2 35 120 85 2.5Y5/2	CP - Ct 7.5YR5/6 CD - Ct 2.5Y6/1	C - Clay Yes C - Clay		10-069
11 TQ 66532 77223 566532 177223 2 s7 0	0 10 10		C - Clay	y111 -109 4 Non-Ag No Land Acce	9-051
END					

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP12	C629 LTC ALCSP	12			ALCSP12
Date of Survey	Survey Type		Surveyor(s)		npany
21/02/2019			RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ67037802			RM188QU	3	26.60000038
MAFF prov		MAFF detailed	d	Flooding	
Grade 2/3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
552	1496	122	127	102	1
Bedrock			Superficial depos	sits	
Thanet Formation			Taplow Gravel M	1ember/Head	
Soil association(s) 1	:250,000		Detai	iled soil information	
Hucklesbrook			None	2	
			<u> </u>		
Revision Number			Date Revised		
1			06/02/2019		

Grid ret. Alt (m) Slope O Aspect Land use	Depth (c	cm) Matrix	Ochreous Mot	tles Grey Mottles	Glev Te	cture	Stones - type	. 1 Stones - type 2	Ped	SUBS STR CaCO3 Mn	C SPL	Drought	Wet		Final ALC	,	Profile notes	Client
NGR X Y 741 (1) TO 67031 78022 567032 178023 3	\$7	rop been	Thick Munsell	colour Form Munsell co	olour Form Munsell col	our '	Fine 12	> 2cm > 6cm	e 1 Stones - type 2 Type	Strength Size Shape	SUBS STR CaCO3 Mn	MBv 9	v MBp Gd	WC Gw	Limitation 1 Lim Wetness Dro	nitation 2 Limitation 3	Grade	1	Ref. 10-002
Q 67031 78022 367032 178023 3	5/	30 60	30 7.5YR5/6 60 7.5YR5/6	6		No SC No SC	L - San 18	0 2	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate		-29 3d	WC1 3d	wetness bro	ougnimess	3d	Drought	10-002
Q 67031 78123 567032 178123 8	≤7	27 48	27 10YR4/2 21 10YR5/4 72 10YR5/3	4		No FSI No FSI Yes FSI		6 1	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate NON - NNo	No	-4 2	WCI 1	Droughtiness		2	2?	10-003
TQ 67031 78223 567032 178223 8	<u> </u>	30 60	30 10YR4/2 30 7.5YR5/6 60 7.5YR5/6	6		No FSI No SC No SC		8 2	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate	No 9 No No	-29 3a	WC I 3a	Wetness Dro	pughtiness	За	Drought?	11-001
TQ 66931 78222 566932 178223 8	<u>≤7</u>		28 22 5YR5/6 70 5YR5/7			No MS	iL - Me 24 i - Mec 25 i - Mec 26	16 5	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate	No -46 No No	-67 4	WC I 3b	Droughtiness		4	Stones/drought?	11-002
TQ 66931 78323 566932 178323 11	≤7	25 50	25 7.5YR3/2 25 7.5YR5/4 70 7.5YR5/4	4		No MS No MS	iL - Me 18 i - Mec 25 i - Mec 26	11 4	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate NON - Non-o	al No	-67 4	WC I 3a	Droughtiness		4	Droughtiness and stoniness?	11-003
TQ 66931 78422 566932 178423 11	<u>≤7</u>	30 50 50 70	30 7.5YR4/2 20 7.5YR4/4 20 7.5YR4/6 10 7.5YR4/6	4 6		No SC No HC			HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	vi Moderate NON - NNo vi Moderate NON - NNo	No No	-16 3a	WCI 1	Droughtiness		За		11-004
TQ 66931 78522 566932 178523 11	57	80 120 0 35	35 7.5YR4/6	2		No HC	L - Clay 75		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate No	No -1	-15 3a	WCI 1	Droughtiness		За		11-005
		50 75 75 80	25 7.5YR4/6 5 7.5YR4/6 40 7.5YR4/6	'6 '6		No HC			HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate NON - NNo vi Moderate NON - NNo	No							
TQ 66831 78523 566832 178523 11	<u>\$7</u>	30 70	30 10YR4/2 40 10YR4/4 5 10YR4/4 45	4		No FSI	- Fine 5 - Fine 3 - Fine 50 - Fine 75		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	vi Moderate NON - NNo vi Moderate NON - NNo	No	-6 2	WCI 1	Droughtiness		2		11-006
TQ 66831 78622 566832 178623 11	=-	35 55	35 10YR4/2 20 10YR4/4 7 10YR4/4 58	4		No Ma	Fine 5 CL - Si 3 CL - Si 40 CL - Si 75		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	vi Moderate NON - NNo vi Moderate NON - NNo	No -11 No No No	-23 3a	WCI 1	Droughtiness		За		11-007
TQ 66731 78623 566732 178623 14	<u>\$7</u>	30 40	30 7.5YR4/2 10 7.5YR4/4 5 7.5YR4/4 75	4		No FSI	Fine 8 Fine 5 Fine 50 Fine 75		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	vi Moderate NON - NNo vi Moderate NON - NNo	No	-42 3b	WC I 1	Droughtiness		3b		11-008
TQ 66631 78622 566632 178623 14	<u> </u>	30 60 60 70	30 7.5YR4/2 30 7.5YR4/4 10 10YR4/4 30 10YR5/3 20	4	CD - Cc2.5Y6/1	No C - No C - Yes C -	L - San 5 Clay 2 Clay 15 Clay 0 Clay 0		HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	vi Poor NON - NNo vi Poor NON - NNo vi Poor NON - NNo	No No	-29 3a	WC II 2	Droughtiness		3a		11-009
TQ 66531 78623 566532 178623 17	<u>≤7</u>	30 45	30 10YR4/2 15 10YR5/4 75 10YR5/3	4		No FSI No FSI Yes FSI		6 1	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	vi Moderate NON - NNo	No	-3 2	WCI 1	Droughtiness		2		11-010
TQ 66834 78710 566835 178710 11		42 65	42 7.5YR4/2 23 7.5YR4/4 5 7.5YR4/4	4		No SC No SC			HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	vi Moderate NON - NNo vi Moderate NON - NNo	No	-17 3a	WCI 1	Droughtiness		3a		11-013
TQ 66931 78722 566932 178723 9		0 20	30 7.5YR4/2	2		ES	Fine 5		HR - All hard rocks or stones (i.e. those	bish cannot be ceratched a	Alet Applic NON - Non-	alalo 2	0 25	WCI 1	Droughtiness		22	<u> </u>	11-012
IU 00931 /0/22 300932 1/0/23 3	5/	0 30	30 7.5YR4/2 30 7.5YR4/4	2		No FS			HR - All hard rocks or stones (i.e. those	Which calling he scratched w	INOT APPIICINON - NOIT-	C ON IE	-0 30	MCI I	Drongimiess		3d		11-012

Point Alt (m) Slope Aspect Land use Depth (cm) Matrix Ochreous Mottles	Grey Mottles Gley Texture Stones - type 1	Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPI Drought Wet	Final ALC Profile notes	Client
NGR X Y Activity Slope Spect Land use Top Bttm Thick Munsell colour Form Munsell colour	Form Munsell colour % > 2cm > 6cm T	ype % > 2cm > 6cm Type Strength Size Shape	SUBS STR CaCO3 Mn C SPL	Limitation 1 Limitation 2 Limitation 3 Grade	ief.
60 70 10 7.5YR4/4	No SCL - San 2 H	R - All hard rocks or stones (i.e. those which cannot be scratched wi	wi Moderate NON - NNo No		
70 75 5 7.5YR4/4	No SCL - San 50 H	R - All hard rocks or stones (i.e. those which cannot be scratched wi	wi Moderate NON - NNo No		
75 120 45		R - All hard rocks or stones (i.e. those which cannot be scratched wi			
75 110 43	JGE 341173	A Final a rocks of stories (i.e. those which cannot be serateried wi	III III III III III III III III III II		
15 TQ 67030 78730 567031 178730 9 ≤7					11-011
16 TQ 66731 78722 566732 178723 14 ≤7 0 28 28 10YR4/2		R - All hard rocks or stones (i.e. those which cannot be scratched wi		Droughtiness 2	11-014
28 46 18 10YR5/4		R - All hard rocks or stones (i.e. those which cannot be scratched wi			
46 120 74 10YR5/3 CD - Cr 5YR5/6	Yes FSZL - Fin 5 H	R - All hard rocks or stones (i.e. those which cannot be scratched wi	wi Moderate NON - NYes No		
END					
END					II.

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name	Parcel								
ALCSP13	C629 LTC ALCSP		ALCSP13							
				T-						
Date of Survey	Survey Type		Surveyor(s)		Company					
21/02/2019			RM	Ask	Askew Land and Soil					
Weather		Relief		getation						
Dry, Sunny		Level			LEY (Ley Grass)					
Grid Reference			Postcode	Altitude	Area					
TQ66237932			RM16 3LT	16	26.10000038					
MAFF prov		MAFF detailed	d	Flooding						
Grade 2/3 None				Flood Zone 1	ood Zone 1					
AAR	AT0	MDw	MDp	FCD	Climate grade					
550	1480	127	125	100	1					
Bedrock			Superficial depo	Superficial deposits						
Thanet Formation			Head/None							
Soil association(s) 1	:250,000		Deta	Detailed soil information						
Hucklesbrook/Fyfie	ld 4		None	None						
Revision Number				Date Revised						
1			06/02/2019	06/02/2019						

Grid ref. Alt (m) Slope Aspect Land use	Depth (cm) Matrix Ochreous Mottles	Grey Mottles Gley Texture Stones - type 1		SUBS STR CaCO3 Mn C SPL Drought Wet	Final ALC Profile notes
IGR X Y	Top Bttm Thick Munsell colour Form Munsell colour Fo	m Munsell colour % > 2cm > 6cm 1	ype % > 2cm > 6cm Type Strength Size Shaj IR - All hard rocks or stones (i.e. those which cannot be scratched	SUBS STR CaCO3 Mn C SPL Drought Wet MBw MBp Gd WC Gr	v Limitation 1 Limitation 2 Limitation 3 Grade
Q 66232 79323 566232 179323 16 ≤7	0 30 30 10YR4/2 30 50 20 10YR4/3		iR - All hard rocks or stones (i.e. those which cannot be scratched IR - All hard rocks or stones (i.e. those which cannot be scratched		Droughtiness 2
	50 70 20 7.5YR5/4	No HCL - Clar 0	IN - All field focks of stories (i.e. those which calinot be scratched	Moderate NON - NNO No	
	70 120 50 7.5YR5/4	No SCL - San O		Moderate NON - NNo No	
Q 66232 79423 566232 179423 16 ≤7	0 27 27 10YR4/2	No FSL - Fine 3 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Not Applic NON - Non-cal No 23 -10 2 WC I 1	Droughtiness 2
	27 45 18 10YR4/4 45 120 75 7.5YR5/6	No FSL - Fine 4 H No MCL - Cla 8 H	IR - All hard rocks or stones (i.e. those which cannot be scratched IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - Non-cal No	
	45 120 /5 /.5YR5/6	NO MCL-Clas	ik - All hard rocks or stones (i.e. those which cannot be scratched	d WI Moderate NON - Non-cal No	
2,66332,79223,566332,179223,19 ≤7	0 27 27 10YR4/2	No FSL-Fine3 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Not Applic NON - Non-cal No 22 -11 3a WC I 1	Droughtiness 3a
	27 40 13 10YR4/4	No FSL - Fine 4 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - Non-cal No	
	40 120 80 7.5YR4/6	No MCL - Cla 8 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - Non-cal No	
66332 79323 566332 179323 11 ≤7	0 30 30 7.5YR4/2	MCL - Cla 3 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wii Not Applic NON - Non-cal No 25 -11 3a WC I 1	Droughtiness 3a
	30 60 30 7.5YR4/4		R - All hard rocks or stones (i.e. those which cannot be scratched		
	60 120 60 7.5YR5/5	No SCL - San 2 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
66432 79123 566432 179123 19 ≤7	0 30 30 7.5YR4/2	FSL - Fine 1 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Not Applic NON - Non-cal No 23 -8 2 WC I 1	Droughtiness 2
	30 70 40 7.5YR4/4	No HCL - Clar 1 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
	70 120 50 7.5YR4/4	No SCL - San 10 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
	1 ' '				
66432 79223 566432 179223 19 ≤7	0 28 28 7.5YR4/2	FSL - Fine 2 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Not Applic NON - Non-cal No 20 -13 3a WC I 1	Droughtiness 3a
	28 60 32 7.5YR4/4		R - All hard rocks or stones (i.e. those which cannot be scratched		
	60 120 60 7.5YR4/6	No SC - Sand 10 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
66532 79123 566532 179123 12 ≤7	0 35 35 10VP4/3	No FSL - Fine 3 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	duri Not Applic NON - NNo No 32 -10 3 WC L 1	Draughtiness 2
00332 /3123 300332 1/3123 12 5/	0 25 25 10YR4/2 25 45 20 10YR4/4	No FSL-Fine3 H	iR - All hard rocks or stones (i.e. those which cannot be scratched IR - All hard rocks or stones (i.e. those which cannot be scratched	d wit Moderate NON - NNo No No	Droughtiness 2
	45 120 75 7.5YR5/6	No MCL - Cla8 H	ik - All hard rocks or stones (i.e. those which cannot be scratched iR - All hard rocks or stones (i.e. those which cannot be scratched	d wit Moderate NON - NNO No	
	,	The lines can			
56132 79423 566132 179423 21 ≤7	0 25 25 10YR4/2	No FSL - Fine 3 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Not Applic NON - NNo No 23 -10 3a WC I 1	Droughtiness 3a
	25 42 17 10YR4/4	No FSL - Fine 4 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
	42 120 78 7.5YR5/6	No MCL - Cla 8 H	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
COM 70422 ECCOM 170422 21 -7	+				N s
6041 79422 566041 179422 21 ≤7					Non-Ag non-agric
56126 79518 566126 179518 12 ≤7	0 25 25 10YR4/2	No FSL - Fine 3 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Not Applic NON - NNo No 24 -9 2 WC I 1	Droughtiness 2
	25 48 23 10YR4/4	No FSL - Fine 4	R - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
	48 120 72 7.5YR5/6	No MCL - Cla 8 H	IR - All hard rocks or stones (i.e. those which cannot be scratched	d wi Moderate NON - NNo No	
7000 70000 700000 470000 40					
66032 79523 566032 179523 12 ≤7					
56133 79612 566133 179612 12 ≤7					Non-Ag non-agric

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel
13A	C629 LTC ALCSP	213A			13A
Date of Survey	Survey Type		Surveyor(s)		npany
15/04/2019			RA	Aske	ew Land and Soil
Weather		Relief		Land use and ve	egetation
Dry, Sunny		Level		LEY (Ley Grass)	5600000
Grid Reference			Postcode	Altitude	Area
TQ65537962			RM18 8TL	21	26.29999924
MAFF prov		MAFF detailed	4	Flooding	
Grade 3		None		Flood Zone 1	
				<u>I</u>	
AAR	AT0	MDw	MDp	FCD	Climate grade
549	1474	126	124	100	1
Bedrock			Superficial depo	citc	
Thanet Formation			Boyn Hill Gravel	Member	
Soil association(s) 1	:250,000		Deta	iled soil information	
Hucklesbrook			None	9	
Revision Number			Date Revised		
ACVISION NUMBER			Date Nevised		

Grid ref. Alt (m) Slope Aspe	ct Land use Depth (cm) Matrix Ochreous Mottles Grey	ottles Gley Texture Stones - type 1 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought Wet	Final ALC Profile notes Client
IGR X Y ALL (III) Slope ASPE Q 65532 79623 565532 179623 21	to Land use Top Bttm Thick Munsell colour Form Munsell colour Form Mu 0 30 30 10YR4/2	attles Stones - type 1 Stones - type 2 Ped Pe	Shape MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade Ref.
(03332 /9023 303332 1/9023 21	30 120 90	No MSL - Me50 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate No	Drongumess 4 11-041
0 65532 79723 565532 179723 24	0 30 30 10YR4/2	No. MSI - Me25 16 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No -43 -54 3b WC I 1	Droughtiness 3b 11-047
1 65532 /9/23 565532 1/9/23 24	0 30 30 104K4/2 30 50 20 104K4/4	No MSL - Me 25 16 HR - All hard rocks or stones (i.e. those which cannot be so No MSL - Me 30 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 35 11-047
	50 52 2 10YR4/4	No MSL - Me 50 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	
	52 120 68 10YR4/4	No MSL - Me 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate No	
0 65432 79723 565432 179723 24	0 30 30 10YR3/1 30 40 10 10YR3/1	MSL - Me50 30 HR - All hard rocks or stones (i.e. those which cannot be so No MSL - Me60 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 4 11-048
	40 120 80	MSL - Me75 HR - All hard rocks or stones (i.e. those which cannot be so		
65332 79723 565332 179723 25	0 35 35 10YR3/1	MSL - Me 50 30 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 4 11-049
	35 43 8 10YR3/1 43 120 77	No MSL - Mel 60 HR - All hard rocks or stones (i.e. those which cannot be so MSL - Mel 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wil Moderate NON - Non-cal No	
	43 120 77	IN - All field Tocks of Scores (i.e. chose which cannot be so	steried will winderate	
65732 79823 565732 179823 21	0 30 30 10YR4/2	MSL - Me 40 20 5 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 4 11-051
	30 40 10 10YR4/3	No MSL - Me 60 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	40 120 80 10YR4/3	No MSL - Me 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched willyidderate INO	
(65632 79823 565632 179823 22	0 30 30 10YR4/2	MSL - Me 60 36 12 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No -77 -83 4 WC I 1	Droughtiness 4 11-052
(03032 73023 303032 173023 22	30 45 15 10YR4/6	No LMS - Log 20 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	Droughtiness 4
	45 50 5 10YR4/6	No LMS - Lot 60 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	50 120 70 10YR4/6	No LMS - Loa 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wil Moderate NON - Non-cal No	
0 65532 79823 565532 179823 24	0 30 30 10YR4/2 30 40 10 10YR4/3	MSL - Me 40 20 12 HR - All hard rocks or stones (i.e. those which cannot be so No MSL - Me 50 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No -60 -71 4 WC I 1	Droughtiness 4 11-053
	40 120 80 10YR4/3	No MSL - Me75 HR - All hard rocks or stones (i.e. those which cannot be so		
	·			
1 65432 79823 565432 179823 24	0 22 22 10YR4/2			Droughtiness 2 11-054
	22 48 26 10YR5/4 48 70 22 7.5YR5/6	No FSL - Fine5 HR - All hard rocks or stones (i.e. those which cannot be so No MCL - Cla1 HR - All hard rocks or stones (i.e. those which cannot be so		
	70 120 50 7.5YR6/3 FD - F¢5YR5/6 FD - F¢2.5			
1 65332 79823 565332 179823 25	0 20 20 10YR4/2	No FSL - Fine 5 1 0 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 33 -7 2 WC I 1	Droughtiness 2 11-055
	20 45 25 10YR5/4	No FSL - Fine 5 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	45 70 25 7.5YR5/6 70 120 50 7.5YR6/3 FD - F¢5YR5/6 FD - F¢2.5	NO MCL - Cla1 HR - All hard rocks or stones (i.e. those which cannot be so 5/2 Yes MSZL - M1 HR - All hard rocks or stones (i.e. those which cannot be so		
	70 110 30 7.3110/3 10 103113/0 15 102.3	y 2 Tes Marie Mari	stated without their tearles	
65232 79823 565232 179823 26	0 22 22 10YR4/2	No FSL - Fine 5 1 0 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 34 -7 2 WC I 1	Droughtiness 2 11-056
	22 48 26 10YR5/4	No FSL - Fine 5 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	-
	48 70 22 7.5YR5/6	No MCL - Cla1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	70 120 50 7.5YR6/3 FD - F€5YR5/6 FD - F€2.5	5/2 Yes MSZL - M 1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
(65532 79923 565532 179923 21	0 30 30 10YR4/2 30 40 10 10YR4/6	SCL - San 25 11 HR - All hard rocks or stones (i.e. those which cannot be so No FSL - Fine 10 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 3b 11-058
	40 50 10 10YR4/6	No LFS - Loai 30 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	50 120 70	LFS - Loa 75 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
65432 79923 565432 179923 21	0 22 22 10YR4/2	No FSL - Fine 10 6 1 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 27 -14 3a WC I 1	Droughtiness 3a 11-059
	22 49 27 10YR5/4 49 70 21 7.5YR5/6	No FSL - Fine 16 HR - All hard rocks or stones (i.e. those which cannot be so No MCL - Cla 1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
	70 120 50 7.5YR6/3 FD - F¢5YR5/6 FD - F¢2.5	5/2 Yes MSZL - M1 HR - All hard rocks or stones (i.e. those which cannot be so	atched wi Moderate NON - Non-cal No	
(65332 79923 565332 179923 21	0 20 20 10YR4/2	No FSL - Fine 5 1 0 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Not Applic NON - Non-cal No 33 -7 2 WC I 1	Droughtiness 2 11-060
~	20 44 24 10YR5/4	No FSL - Fine 5 HR - All hard rocks or stones (i.e. those which cannot be so	ratched wi Moderate NON - Non-cal No	-
	44 70 26 7.5YR5/6	No MCL - Cla 1 HR - All hard rocks or stones (i.e. those which cannot be so		
	70 120 50 7.5YR6/3 FD - F¢ 5YR5/6 FD - F¢ 2.5	5/2 Yes MSZL - M 1 HR - All hard rocks or stones (i.e. those which cannot be so	atcned wi moderate NON - Non-call No	
- CC222 70022 CCC222 470	22 22 40/04/2	N. 51 5. 0 2 0 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
65232 79923 565232 179923 21	0 22 22 10YR4/2 22 55 33 10YR5/4	No FSL - Fine 8 3 0 HR - All hard rocks or stones (i.e. those which cannot be so No FSL - Fine 10 HR - All hard rocks or stones (i.e. those which cannot be so		Droughtiness 2 11-061

Poi	Grid ref. Alt (m) Slope Aspect Land use		epth (Matrix	Ochreous Mottles	Grey Mottles	Glev	Texture		nes - type 1		Stones - type		Per		SUBS STR	CaCO3	Mn C SP		ought	Wet		Final ALC		Profile notes	Client
1	NGR X Y XI (III) Stope Aspect Land use				Munsell colour 7.5YR5/6	Form Munsell colour	Form Munsell colour		ZL - Silt Id 1			Type % >: HR - All hard roo				ze Shape				MBW	MBp Gd	WC Gw	Limitation 1	Limitation 2 Limitation	3 Grade		Ref.
		33	120	03	7.511(5)(0			140	ZL - SIIL IGI			IIK-All liaid loc	LKS OF SCOTIES (I	i.e. tilose v	VIIICII CAIIIIOC DE	scrattieu w	Wioderate	NON - N	OII-Callino								
15	TQ 65432 80023 565432 180023 21	0	25	25	10YR4/2			Nο	FSZL - Fin 6	2	0	HR - All hard roo	rks or stones (i	i.e. those v	which cannot be	scratched w	Not Applica	hle	No	n 29	-6 2	WCI 1	Droughtiness		2		11-062
			50		10YR5/4				SCL - San 5			HR - All hard roo							No	0							
		50	120	70	7.5YR5/6			No	HCL - Clay4			HR - All hard roo	cks or stones (i	i.e. those v	vhich cannot be	scratched w	Moderate		No	D							
16	TQ 65332 80023 565332 180023 21				10YR4/2				FSL - Fine 6			HR - All hard roo									-14 3a	WCI 1	Droughtiness		3a		11-063
					10YR5/4				SCL - San 5			HR - All hard roo															
		50	120	70	7.5YR5/6			No	HCL - Clay4			HR - All hard roo	cks or stones (i	i.e. those v	vhich cannot be I	scratched w	Moderate	NON - N	on-cal No	0							
L																											
17	TQ 65232 80023 565232 180023 21		25		10YR4/2 10YR5/4				FSL - Fine 5 FSL - Fine 5	1		HR - All hard roo									-7 2	WCI 1	Droughtiness		2		11-064
					7.5YR5/6				MCL - Cla 1			HR - All hard roo															
					7.5YR6/3	FD - F¢ 5YR5/6			MSZL - M1			HR - All hard roo															
							,																				
18	TO 65332 80123 565332 180123 22	0	30	30	10YR4/2				MCL - Cla 2			HR - All hard roo	rks or stones (i	i e those v	which cannot be	scratched w	Not Applic	NON - N	No No	n 27	-7 2	WCI 1	Droughtiness		2		11-065
10	100332001233033210012322	30			10YR4/1				MCL - Cla 2			HR - All hard roo									, ,		Di Ougittilless		ľ		11 303
		50			7.5YR4/5				HZCL - Sil 0			[Moderate										
\vdash	END																										1

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC III WC IV

WC V

WC VI

2

3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13B	C629 LTC ALSCP	13B			13B
Date of Survey	Survey Type		Surveyor(s)	Con	npany
16/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ65137982			RM16 4UB	26	22.79999924
MAFF prov		MAFF detailed	<u>d</u>	Flooding	
Grade 3		None		Flood Zone 1	
	I _A TO	laan.	laan .	Ison	
AAR	AT0	MDw	MDp	FCD	Climate grade
551	1469	126	123	100	1
Bedrock			Superficial depos	sits	
Thanet Formation			Boyn Hill Gravel		
Soil association(s) 1	L:250,000		Detai	led soil information	
Hucklesbrook			None		
Revision Number			Date Revised		
1			15/03/2019		

Grid ref. Alt (m)	lope Aspect Land use	Ton Btt	m Thick	Matrix Munsell color	Ochreous Mottles ur Form Munsell colour		Gley Texture	Stones - type 1 Stones - type 2	Ped Strength Size Shane	SUBS STR CaCO3 Mn (SPL MRw	MRn Gr	I WC Gw	Limitation 1 Limitation	al ALC	Profile notes	Client
0 65131 79822 565131 179822 26	7			10YR4/2	ar rom mansen coloar	TOTAL INIGINEER COIDER	No MCL - Cla	5 2 0 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Applic NON - Non-c	al No 21	-12 3a	WCII 2	Droughtiness	3a	-	11-057
				10YR5/6			No HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Moderate NON - Non-c	al No						
		60 120	0 60	10YR6/4	CD - Ci 5YR5/6		Yes HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - Non-c	al No						
65239 80120 565239 180120 20	7			10YR4/2			MCL - Cla		which cannot be scratched v			-2 2	WCI 1	Droughtiness	2		11-066
				10YR4/4			FSZL - Fir			Moderate NON - Non-c	al No						
				7.5YR4/6 10YR5/3	CD - C: 10YR5/6		C - Clay Yes SCL - San			Poor NON - NYes Moderate NON - NYes							
		80 120	0 40	10113/3	CD - CI 101K5/6		res SCL - Sali			Widdelate NON - NTes	INO						
65131 79923 565131 179923 21	:7	0 25	25	10YR4/2 10YR5/6			No MCL - Cla		which cannot be scratched v	wi Not Applic NON - Non-c	al No 22	-12 3a	WCI 1	Droughtiness	3a		12-004
				10YR5/6 10YR6/4	CD - Ci 5YR5/6		No HCL - Cla Yes HCL - Cla										
							1.00										
65031 79923 565031 179923 24	7	0 30	30	10YR4/2			No MCL - Cla	5 2 0 HR - All hard rocks or stones (i.e. those	which cannot be scratched a	wi Not Applic NON - Non-c	al No. 23	.11 3a	WCI 1	Droughtiness	30		12-005
0303173323 303031 173323 24				7.5YR5/4			No HCL - Cla		which cannot be scratched w	wi Moderate NON - Non-c	al No	11 50		broughtmess	50		12 003
		60 120	0 60	5YR4/4	FD - Fe 5YR5/8	FD - F€ 2.5YR5/2	Yes HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - Non-c	al No						
		1									1		1				
64931 79923 564931 179923 24	7	0 29	29	10YR4/2			No MCL - Cla		which cannot be scratched v	wi Not Applic NON - Non-c	al No 12	-10 3a	WCI 1	Droughtiness	3a		12-006
				7.5YR5/6			No HCL - Cla										
		60 120	u 60	7.5YR6/6	FF - Fe 5YR5/1	FF - Fe 2.5YR5/2	Yes C - Clay	5 HR - All hard rocks or stones (i.e. those	wnich cannot be scratched v	wi moderate NON - Non-c	anNo		1				
		1									1		1				
64831 79922 564831 179922 24	7			10YR4/2			No MCL - Cla		which cannot be scratched v	wi Not Applic NON - Non-c	al No 11	-11 3a	WCI 1	Droughtiness	3a		12-007
				7.5YR5/6 7.5YR6/6	FF - Fe SYR5/1	FF - Fe 2.5YR5/2	No HCL - Cla Yes C - Clay	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those									
		00 120	0 00	7.5110/0	11-163113/1	11 -162.3183/2	les ic-clay	TIK - All Hard Tocks of Stories (i.e. trios	l carinot be scratched to	WI WIOGETALE INOIN - NOIT-C	ailivo						
65131 80023 565131 180023 21 5	7	0 22	22	10YR4/3			SCL - San	5 HR - All hard rocks or stones (i.e. those	.hish sound be sessioned.	of Net Application New o	albia 11	22 20	WCI 1	Droughtiness	20		12-014
03131 00023 303131 100023 21	./			7.5YR4/4			SCL - San					-22 3d	WCI I	Droughtiness	Sd		12-014
				7.5YR4/6			C - Clay										
		80 85	5	7.5YR4/6			SC - Sano	20 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Poor NON - Non-c	al Yes						
		85 120	0 35				SC - Sano	50 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Poor	Yes						
65031 80022 565031 180022 24	7	0 30	30	10YR4/2			SCL - San	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Applic NON - Non-c	al No -1	-15 3a	WCI 1	Droughtiness	3a		12-015
		30 50	20	10YR4/4			HCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Moderate NON - Non-c	al No						
				10YR5/4			HCL - Cla										
		70 75 75 120		10YR5/4			HCL - Cla HCL - Cla				al No						
		/5 120	0 45				IICE - Cla	TIK - All Hard Tocks of Stories (i.e. trios	l carinot be scratched to	Willivioderate	140						
64931 80022 564931 180022 24	7			10YR4/2			MSZL - N		which cannot be scratched v	wi Not Applic NON - Non-c	al No -2	-5 3a	WCI 1	Droughtiness	3a		12-016
				7.5YR4/4 7.5YR4/4			FSZL - Fir HCL - Cla										
				7.5YR4/4 7.5YR4/4			HCL - Cla										
		65 120					HCL - Cla				No						
C4024 00022 CC4024 400022 24	-	0 22	22	401/04/2			14671	2 48 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		No. 1		44 2:	14151 4	Daniel Maria	2.		42.047
64831 80022 564831 180022 24	./			10YR4/2 10YR4/4			MSZL - N FSZL - Fir		which cannot be scratched which cannot be scratched which	wi Not Applic NON - Non-c	al No 3	-11 3a	WCI 1	Droughtiness	3a		12-017
				10YR4/4			FSZL - Fir	50 HR - All hard rocks or stones (i.e. thos	which cannot be scratched with the scratched which cannot be scratched	wi Moderate NON - NNo	No						
		53 120		•			FSZL - Fir						1				
		1									1		1				
65131 80122 565131 180122 20	7	0 30	30	10YR4/2			FSZL - Fir	0 HR - All hard rocks or stones (i.e. those	which cannot be scratched a	wi Not Applic NON - NNo	No. 52	19 1	WCI 1	Droughtiness	1		12-025
03131 00111 303131 100111 10				10YR4/4			FSZL - Fir		which cannot be scratched w	wi Moderate NON - NNo	No			broughtmess	-		12 023
		50 120	0 70	7.5YR4/6			HZCL - Si	0 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - NYes	No						
65031 80123 565031 180123 19	7			10YR4/2			MCL - Cla	5 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Not Applic NON - Non-c	al No -9	-26 3a	WCI 1	Droughtiness	3a		12-026
				10YR4/4			HCL - Cla				No						
		50 120	0 70				HCL - Cla	50 HR - All hard rocks or stones (i.e. those	which cannot be scratched w	wi Moderate NON - NNo	No						
		1									1		1				
64931 80123 564931 180123 20 5	7	0 30		10YR4/2			MCL - Cla					-17 3a	WCI 1	Droughtiness	3a		12-027
		30 50		7.5YR4/4			MZCL - S		which cannot be scratched v	wi Moderate NON - Non-c	alNo		1				
				7.5YR4/6 10YR4/6			HCL - Cla No HCL - Cla						1				
				10YR4/6			No HCL - Cla	75 HR - All hard rocks or stones (i.e. thos	which cannot be scratched w	wi Moderate	No		1				
		1									1		1				
	7			10YR4/2 10YR4/4			No MSL - Me No MSL - Me	10 HR - All hard rocks or stones (i.e. those 10 HR - All hard rocks or stones (i.e. those	which cannot be scratched v	wi Not Applic NON - NNo	No -32	-42 3b	WCI 1	Droughtiness	3b		12-028
64831 80123 564831 180123 20		34 45															

Grid ref. Depth (cm) Matrix	Ochreous Mottles Grey Mottles	Stones - type 1 Stones - type 2	Dark	Decumbs 18/as	Final ALC	Client
Point Grid ref. Alt (m) Slope ° Aspect Land use Depth (cm) Matrix NGR X Y Alt (m) Slope ° Aspect Land use Depth (cm) Matrix NGR colour Form Muscell colour Form Muscell colour Gley Texture		Ped SUBS STR CaCO3 Mn C	SPL Drought Wet MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade Profile notes	Ciletti	
	colour Form Munsell colour Form Munsell colour	% > 2cm > 6cm Type % > 2cm > 6cm Type	strengtn Size Snape	IMBM IMBD IGG IMC IGM	Limitation 1 Limitation 3 Grade	Ket.
			ich cannot be scratched wi Moderate NON - No	NO		
50 120 70	No MSL - N	Me 75 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wil Moderate No	No		
15 TQ 64931 80222 564931 180222 20 ≤7 0 28 28 10YR4	MCL - C	Cla 5 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Not Applic NON - Non-cal	No -28 -35 3b WC I 1	Droughtiness 3b	12-041
28 45 17 7.5YR	HCL - Cl	Clay 5 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Moderate NON - Non-cal	No		
45 50 5 7.5YR	HCL - Cl	Cla 50 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Moderate NON - NNo	No		
50 120 70	HCL - Cl	Clar75 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wit Moderate	No		
16 TQ 64831 80222 564831 180222 20 ≤7 0 25 25 10YR4	MSL - M	Me8 HR - All hard rocks or stones (i.e. those wh	ich cannot be scratched wi Not Applic NON - Non-cal	No -49 -59 4 WCI 1	Droughtiness 4	12-042
25 35 10 10YR4			ich cannot be scratched wi Moderate NON - NNo			
35 120 85	MSL - M		ich cannot be scratched wi Moderate NON - NNo			
33 110 03	III III	The Fall hard Tocks of Stories (i.e. those wi	ner cambi de se decide wi moderate 1101			
END						

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

vc - very coar

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grade

1

2 3a

3b

4 5

Non-Ag

Glev

None Gley

N/A

13B C629 LTC ALSCP13B Revision 1 Revision Date 15/03/2019

Project Number	Project Name				Parcel
13C	C629 LTC ALCSP	13C			13C
	-		-		
Date of Survey	Survey Type		Surveyor(s)		npany
16/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
				1	
Grid Reference			Postcode	Altitude	Area
TQ63737992			RM16 3AH	26	22.20000076
MAFF prov		MAFF detailed	<u>d</u>	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
554	1469	125	123	101	1
			lo con		
Bedrock			Superficial depo		
Thanet Formation			Boyn Hill Gravel	Memb	
Soil association(s) 1	·250 000		Dota	iled soil information	
Hucklesbrook	230,000		None		
пискіезргоок			None	t	
Revision Number			Date Revised		
1			15/03/2019		

Grid ref. Alt (m) Slope Aspect	and use Depth (cm) Matrix Ochreous Mottles	Grey Mottles Gley Texture Stones - type 1 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought Wet	Final ALC Profile notes Client
A I	Top Bttm Thick Munsell colour Form Munsell colour Form		Non-cal No 14 -9 2 WC Drought Wet Non-cal No 14 -9 2 WC 1 Non-cal No 14 Non-cal Non-cal No 14 Non-cal Non-cal No 14 Non-cal	mitation 2 Limitation 3 Grade Ref. 2 12-008
Q 64732 79923 564732 179923 22 ≤7	27 55 28 10YR4/4	No HCL - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratcl	ned wi Moderate NON - Non-cal No	2 12-008
	55 120 65 7.5YR4/6	No C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratch	hed wi Moderate NON - Non-cal No	
1 64632 79923 564632 179923 24 ≤7	0 24 24 10YR4/2		ned wi Not Applic NON - Non-cal No 5 -14 3a WC I 1 Droughtiness	3a 12-009
	24 50 26 10YR4/4 50 120 70 7.5YR4/6	No MCL - Clad HR - All hard rocks or stones (i.e. those which cannot be scratc) No C - Clay 15 HR - All hard rocks or stones (i.e. those which cannot be scratc)		
	50 120 70 7.5YR4/6	NO C - Clay 15 HK - All hard rocks or stones (i.e. those which cannot be scratci	ned will moderate INON - Non-call No	
1 64732 80023 564732 180023 22 ≤7	0 23 23 10YR4/3	No FSL - Fine 8 2 0 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -8 -25 3a WC I 1 Droughtiness	3a 12-018
	23 52 29 7.5YR4/4 52 120 68 7.5YR5/6	No FSL - Fine 8 GH - Gravel with non-porous (hard) stones No MS - Med 12 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
	32 120 06 7.51K3/0	NO INS - Med 12 GIT - Graver with non-porous (nard) stories	Moderate Non-Cal No	
(64632 80023 564632 180023 24 ≤7	0 25 25 10YR4/3 25 52 27 7.5YR4/4	No FSL - Fine 8 2 0 GH - Gravel with non-porous (hard) stones No FSL - Fine 8 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -8 -25 3a WC I 1 Droughtiness Moderate NON - Non-cal No	3a 12-019
	52 120 68 7.5YR5/6	No MS - Meq 12 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
(64532 80023 564532 180023 24 ≤7	0 22 22 10YR4/3 22 54 32 7.5YR4/4	No FSL - Fine 8 2 0 GH - Gravel with non-porous (hard) stones No FSL - Fine 8 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -7 -22 3a WC I 1 Droughtiness Moderate NON - Non-cal No	3a 12-020
	54 120 66 7.5YR5/6	No MS - Med 12 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
0,64332 80023 564332 180023 25 ≤7	0 22 22 10YR4/3	No FSL - Fine 10 5 0 HR - All hard rocks or stones (i.e. those which cannot be scratc)	ned wi Not Applic NON - Non-cal No 0 -19 3a WC I 1 Droughtiness	3a 12-021
204352 00023 304352 100023 23	22 52 30 7.3YR5/6	No MCL - Cla 10 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate NON - Non-cal No	
	52 120 68 7.5YR4/6	No C - Clay 15 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate NON - Non-cal No	
2,64732 80123 564732 180123 22 ≤7	0 22 22 10YR4/3	MSL - Me3 HR - All hard rocks or stones (i.e. those which cannot be scratci	ned wi Not Applic NON - Non-cal No 16 -14 3a WC I 1 Droughtiness	3a 12-029
	22 40 18 7.5YR5/4	No FSZL - Fin 3 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate NON - NNo No	
	40 45 5 7.5YR5/4 45 120 75	No FSZL - Fin 20 HR - All hard rocks or stones (i.e. those which cannot be scratc) FSZL - Fin 50 HR - All hard rocks or stones (i.e. those which cannot be scratc)		
Q 64632 80123 564632 180123 22 ≤7	0 30 30 10YR4/3	MSL - Me 3 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Not Applic NON - Non-cal No -8 -31 3b WC I 1 Droughtiness	3b 12-030
	30 40 10 7.5YR5/4 40 50 10 7.5YR5/4	No MSL - Me3 HR - All hard rocks or stones (i.e. those which cannot be scratci No MSL - Me20 HR - All hard rocks or stones (i.e. those which cannot be scratci	ned wi Moderate NON - NNo No ned wi Moderate NON - NNo No	
	50 120 70	MSL - Me 50 HR - All hard rocks or stones (i.e. those which cannot be scratch	ned wi Moderate No	
Q 64532 80123 564532 180123 22 ≤7	0 28 28 10YR4/3 28 40 12 7.5YR5/4	MSL - Mel 8 HR - All hard rocks or stones (i.e. those which cannot be scratc) No MSL - Mel 10 HR - All hard rocks or stones (i.e. those which cannot be scratc)	ned wi Not Applic NON - Non-cal No -29 -37 3b WC I 1 Droughtiness	3b 12-031
	40 50 10 7.5YR4/4	No HCL - Cla 10 HR - All hard rocks or stones (i.e. those which cannot be scratcl	ned wi Moderate NON - NNo No	
	50 55 5 7.5YR4/4 55 120 65	No HCL - Cla 50 HR - All hard rocks or stones (i.e. those which cannot be scratcl HCL - Cla 75 HR - All hard rocks or stones (i.e. those which cannot be scratcl	ned wi Moderate NON - NO No	
2,64419 80124 564419 180124 21 ≤7	0 24 24 7.5YR4/3	No FSL - Fine 12 6 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -21 -37 3b WC I 1 Droughtiness	3b 12-032
204415 00124 304415 100124 21 27	24 52 28 7.5YR5/4	No MSL - Me 15 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	12 032
	52 120 68 7.5YR5/6	No MS - Med 18 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
(64332 80123 564332 180123 22 ≤7	0 25 25 7.5YR4/3	No FSL - Fine 12 6 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -22 -38 3b WC I 1 Droughtiness	3b 12-033
	25 50 25 7.5YR5/4	No MSL - Me 15 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
	50 120 70 7.5YR5/6	No MS - Med 18 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	
0 64232 80123 564232 180123 23 ≤7	0 22 22 7.5YR4/3	No FSL - Fine 12 6 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -22 -37 3b WC I 1 Droughtiness	3b 12-034
	22 52 30 7.5YR5/4 52 120 68 7.5YR5/6	No MSL - Mel 15 GH - Gravel with non-porous (hard) stones No MS - Med 18 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
Q 64532 80223 564532 180223 22 ≤7	0 24 24 10YR4/2	No FSL - Fine 6 2 0 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No 33 -1 2 WC I 1 Droughtiness	2 12-045
	24 55 31 10YR5/3 55 120 65 10YR5/2	No FSZL - Fin 8 GH - Gravel with non-porous (hard) stones No SCL - San 10 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No Moderate NON - Non-cal No	
	·			
(64432 80223 564432 180223 21 ≤7	0 25 25 10YR4/2	No FSL - Fine 6 2 0 GH - Gravel with non-porous (hard) stones No FSZL - Fin 8 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No 31 -3 2 WC I 1 Droughtiness Moderate NON - Non-cal No	2 12-046
0443E 00EE3 30443E 100EE3 E1 2/	25 52 27 10YR5/3			

	pint	Grid ref.	14 (m) G	I and	. D	epth (cn	n) N	Matrix	Ochreous	Mottles	Grey Mottles	Class	Tausture		Stones -	type 1		Sto	nes - type	2		Ped		UBS STR (C+CO2	Man C	CDI	Drought		Wet			Final ALC			Profile notes	Client
P	NGR	X Y	(III) Slope	Aspect Land use	Тор	Bttm 1	Thick N	Munsell colour	Form Muns	ell colour	Form Munsell colour	Gley	rexture	% > 2	2cm > 6	type 1 6cm Ty	pe %	> 2cm	> 6cm	Type	Strength	Size S	Shape	OBSSIR	CaCO3	IVIII C I	ME	Bw MBp	Gd W	/C Gw	Limitation	1 Limitat	tion 2 Lim	nitation 3	Grade	Profile flotes	Ref.
					52	120 (68 1	LOYR5/2			'	No	SCL - Sar	10		GH	I - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No										
1	5 TQ 64332 802	223 564332 180223 22	2 ≤7		0	22	22 7	7.5YR4/4				No	FSL - Fine	8 4	1	GH	I - Grave	with nor	n-porous (l	nard) ston	es		N	lot Applic	NON - N	Non-cal I	No 19	-16	3a W	/C I 1	Droughtine	ess			3a		12-047
					22	54	32 7	7.5YR5/4				No	FSL - Fine	15		GH	H - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No										
					54	120 (66 7	7.5YR5/6				No	MSL - M	20		GH	H - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No										
																	1								1												
1	6 TQ 64232 802	223 564232 180223 23	3 ≤7		0	25	25 7	7.5YR4/4				No	FSL - Fine	8 4	1	GH	I - Grave	with nor	n-porous (I	nard) ston	es es		N	lot Applic	NON - N	Non-cal I	No 20	-16	3a W	CI 1	Droughtine	ess			3a		12-048
					25	55	30 7	7.5YR5/4				No	FSL - Fine	15		GH	H - Grave	with nor	n-porous (I	nard) ston	es		M	Aoderate I	NON - N	Non-cal I	No				_						
					55	120 (65 7	7.5YR5/6				No	MSL - M	20		GH	H - Grave	with nor	n-porous (I	nard) ston	25		M	/loderate	NON - N	Non-call	No										
														1			1																				
1	7 TQ 64432 803	323 564432 180323 23	3 ≤7																												1						12-062
					- 1																																
					- 1																																
H	END				+																																
					1						1	1	1																		1						0.0

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4

5 Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel
13D	C629 LTC ALCSP	213D			13D
	_		,		
Date of Survey	Survey Type		Surveyor(s)		mpany
15/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	vegetation
Dry, sunny		Level		LEY (Ley Grass	_
<u></u>			<u> </u>	Tana a	T.
Grid Reference			Postcode	Altitude	Area
TQ63737992			RM16 3AH	26	26.60000038
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
554	1469	125	123	101	1
	1403	123	123	101	+
Bedrock			Superficial depo	sits	_
Thanet Formation			Boyn Hill Gravel	Member	
			1		
Soil association(s) 1	L:250,000		Detai	iled soil information	
Hucklesbrook			None	!	
Revision Number			Date Revised		
1			15/03/2019		

Grid ref. NGR X Y Alt (m) SIC	Slope O Aspect Land use	Depth (cm	m) Matrix Ochreous Mottle Thick Munsell colour Form Munsell colo	es Grey Mottles Gle	ley Text	ure Stones - typ	e1	Stones - type 2 % > 2cm > 6cm Type	Ped Strongth Sing Shopp	SUBS S	TR CaCO3	3 Mn C SPL	L Drou	ught Wet	t limitation	Final ALC 1 Limitation 2 Limitation 3	Crada	Profile notes	Client
Q 63731 79922 563732 179923 26 ≤7	.7	0 10 1		Ji Torrii Murisen colour	MSL	- Medium sandy loam	туре	76 2 ZCIII 2 OCIII Type	Strength Size Shape	+	-	+	-108 -10		JW Ellintation 2	1 Elilitation 2 Elilitation 3	Non-Ag	+	12-011
							l	1									_		
								1											
							l	1											
							l	1											
TQ 63706 80025 563707 180026 26 ≤7	7	0 10 1	10		MSL	- Medium sandy loam							-108 -10	J6 4			Non-Ag		12-022
								1											
							I.	ĺ								!			
							I.	ĺ								!			
TQ 63749 80141 563750 180141 27 ≤7	,	0 10 1	10		MSL	- Medium sandy loam		1					-108 -10	J6 4			Non-Ag		12-035
							I.	ĺ								!			
								1											
								1											
TO 62621 90122 562622 190122 27		0 10	10		MEI	Madium condulorm					_	+	100 1	06.4			Non An		12.026
TQ 63631 80122 563632 180123 27 ≤7	·	0 10 1	10		MSL	- Medium sandy loam		1					-108 -10	<i>1</i> 6 4			Non-Ag		12-036
							I.	ĺ								!			
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TQ 64131 80223 564132 180223 23 ≤7	7	0 26	36 10YR3/3	No.	IO MSI	- Me 2 1	UP - All	hard rocks or stones (i.e. those	which cannot be recatched u	wit Not An	nnlic VSC - V	Vallo N	0 -24 -7	19 2h WCI	1 Droughtine	orr	2h		12-049
10 04131 00223 304132 100223 23 37	3	36 44 8	8 7.5YR3/3	No	lo MSL	- Me 0	HR - All h	hard rocks or stones (i.e. those	which cannot be scratched w	wi Modera	rate VSC - V	VeNo No	0	, 30 WC1 1	. Di ougnitine.	33	30		12-045
	ľ	14 72 7	28 10YR4/4	No	lo LMS	- Loa 0	HR - All h	hard rocks or stones (i.e. those	which cannot be scratched w	vi Modera	ate VSC - V	√eNo No	,			ļ			
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	1						I									ļ			
TQ 64031 80223 564032 180223 22 ≤7	.7	n 35	35 10YR3/3	Nr	in MSI	- Me 2 1	HR - All	hard rocks or stones (i.e. those	which cannot be scratched v	wi Not Ap	nnlic VSC - \	VeNo Nr	n -37 -3	an 3b WCI	1 Droughtine:	PCC	3b	+	12-050
	3	35 40 5	5 7.5YR3/3	No	lo MSL	- Me 0	HR - All h	hard rocks or stones (i.e. those	which cannot be scratched w	wi Modera	rate VSC - V	VeNo No	n			-			-
			30 10YR4/4 2 7.5YR5/6	No No	lo LMS	- Loa 0 - Med 0	HR - All I	hard rocks or stones (i.e. those hard rocks or stones (i.e. those	which cannot be scratched w	vi Modera	ate VSC - V	/eNo No	•			Į			
	ſ	0 /2 .	2 7.3183/0		J 10.5	Weed	1111	did focks of stones (i.e. t	//// carriot be services	/I IVIOGC.	die	A140				ļ			
	[ı	1								ļ			
TQ 63931 80223 563932 180223 25 ≤7	.7	0 38	38 10YR3/3	No		- Me 2 1	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Ap	oplic VSC - \	VeNo No	-34 -2	7 3b WCI 1	1 Droughtine:	ess	3b	augered to 70cm stone/gravel	12-051
	3	38 45 7	7 7.5YR3/3	No	lo MSL	- Medium sandy loam	ı	1		Modera	rate VSC - V	VeNo No	0			Į		droughtiness limitation?	
	4	15 /u 2 70 72	25 10YR4/4 2 7.5YR5/6	No No		- Loamy medium sand - Medium Sand	ı	1		Moder	ate VSC - v	VeNo No - NNo No	n			Į			
		_					ı	1								ļ			
	[ı									ļ			
TQ 63831 80223 563832 180223 25 ≤7		J 35	35 10YR3/4	No	o MSL	- Me 3 2	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Not Ap	oplic VSC - \	VeNo No	-10 -1/	6 3a WCI 1	1 Droughtine:	ess	За	+	12-052
			30 7.5YR3/3 5 7.5YR3/3	Yes No	es MSL	- Me 0 - Loa 0	HR - All h	hard rocks or stones (i.e. those hard rocks or stones (i.e. those	which cannot be scratched w	wi Modera	rate VSC - V	VeNo No	0			Į			
	ľ	70 100	30 7.5YR4/6	No		- Med 0	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Moder:	rate NON -	· NNo Nc	s			ļ			
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TQ 63731 80223 563732 180223 27 ≤7	7	0 10 1	10		MSL	- Medium sandy loam							-108 -10	J6 4		-	Non-Ag		12-053
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	[l		1						!	l	<u></u>	
TQ 64231 80322 564232 180323 24 ≤7	7	0 10 1	10		MSL	- Medium sandy loam		<u> </u>					-108 -10	J6 4			Non-Ag		12-064
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TQ 64131 80322 564132 180323 24 ≤7	/ [0 10 1	10		MSL	- Medium sandy loam	ı	1					-108 -10	J6 4		Į	Non-Ag		12-065
							ı	1								ļ			
	[ı									ļ			
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TQ 64031 80322 564032 180323 25 ≤7			38 10YR3/3 22 7.5YR3/3	No No	lo MSL	- Me 5 4 - Me 0	HR - All I	hard rocks or stones (i.e. those hard rocks or stones (i.e. those	which cannot be scratched w	vi Not App	plic VSC - V	/eNo No	-28 -19	# 3b WCI 1	1 Droughtine	ess	3b	gravel at 70cm difficult to auger	12-066
			10 7.5YR3/2	No	o LMS	- Los 0	HR - All I	hard rocks or stones (i.e. those	which cannot be scratched w	wi Moder:	rate NON -	· NNo Nc	د			ļ			
	[ı									ļ			
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TQ 63931 80322 563932 180323 24 ≤7		0 29 2 29 60 3	29 7.5YR5/6 31 7.5YR5/6	No No	lo MSL lo MSL	- Me 10		evel with non-porous (hard) stor evel with non-porous (hard) stor		Not App	pplic NON -	- NNo No - NNo No	o -5 -27	27 3a WCI 1	1 Droughtine:	ess	3a		12-067
			60 7.5YR5/6	No		- Me 50		evel with non-porous (hard) sto			rate NON -					!			
							I	ĺ								!			
								1											
								L											
TQ 63831 80322 563832 180323 24 ≤7			29 10YR4/2 31 7.5YR5/6		lo FSZL lo MSL	Fin 8 4 0		evel with non-porous (hard) stor evel with non-porous (hard) stor		Not Ap	nplic NON -	- NNo No - NNo No		13 3a WCI 1	1 Droughtine:	ess	За		12-068

Point Grid ref. Alt (m) Slope o Aspect Land use	Depth (cm) Matrix	Ochreous Mottles Grey Mottles Gley	Texture Stones - type 1	Stones - type 2	Ped	SUBS STR C	aCO3 Mn C S	Drought	Wet	Final ALC	Profile notes	Client
NGR X Y	Top Bttm Thick Munsell colour	Form Munsell colour Form Munsell colour	% > 2cm > 6cm T	ype % > 2cm > 6cm Type				MBw MBp G	d WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade		Ref.
	60 120 60 7.5YR5/6	No	MSL - Me 50	H - Gravel with non-porous (hard) ston	nes	Moderate N	ION - NNo N	lo				
15 TQ 64032 80422 564032 180423 25 ≤7	0 33 33 7.5YR3/4			IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi				WCI 1	Droughtiness 3b	gravel at 60cm difficult to auger	12-072
	33 40 7 7.5YR3/2		MSZL - Medium sandy silt loam				ION - NNo N	lo			60cm+; 2 attempts to auger below	'
	40 55 15 7.5YR3/3		FSL - Fine sandy loam			Moderate S		lo			30cm	
	55 60 5 5YR4/3	No I	HCL - Clay loam (heavy)			Moderate S	C - Slig No N	lo				
												_
16 TQ 63932 80422 563932 180423 24 ≤7	0 30 30 10YR4/2			IR - All hard rocks or stones (i.e. those v					WCI 1	Droughtiness 3a	IMP: at 60cm, assume gravel, >70%	6 12-073
	30 55 25 10YR4/4			IR - All hard rocks or stones (i.e. those v				lo			HR and stop rooting at 80cm?	
	55 60 5 10YR4/4			IR - All hard rocks or stones (i.e. those v			ION - NNo N	lo				
	60 80 20		FSZL - Fin 75 F	IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi	Moderate	N	lo				
												4
17 TQ 63832 80422 563832 180423 24 ≤7	0 30 30 10YR4/2			R - All hard rocks or stones (i.e. those v					WCI 1	Droughtiness 4	IMP: at 40cm, assume gravel, >70%	612-074
	30 40 10 10YR4/3			R - All hard rocks or stones (i.e. those v							HR and stop rooting at 60cm?	
	40 60 20	No	MSZL - M 75 F	IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi	Moderate	No N	lo .				
												_
18 TQ 63931 80523 563932 180523 24 ≤7	0 30 30 10YR4/2			IR - All hard rocks or stones (i.e. those v					WCI 1	Droughtiness 3b	IMP: at 55cm, assume gravel, >70%	6 12-079
	30 50 20 7.5YR4/5	No I		IR - All hard rocks or stones (i.e. those v				lo			HR and stop rooting at 75cm?	
	50 55 5 7.5YR4/5			IR - All hard rocks or stones (i.e. those v			ION - NNo N	lo				
	55 75 20		MZCL - Si 75 F	IR - All hard rocks or stones (i.e. those v	which cannot be scratched wi	Moderate	l l	lo				
	1											
	1											
											1	4
END	I		J	l l	I .	1 1	1 1		1		I	1

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC V

WC VI

ALC Grade

L

2 3a

3b

4

5 Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13F	C629 LTC ALCSF	213F			13F
Date of Survey	Survey Type		Surveyor(s)		mpany
15/04/2019			RA	ASI	KEW LAND AND SOIL
Weather		Relief		Land use and	vegetation
Dry, Sunny		Level		LEY (Ley Grass	_
[a.i.a.f				Tana a	т.
Grid Reference			Postcode	Altitude	Area
TQ6351804			RM16 3LP	25	39.40000153
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Floos Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
557	1470	125	123	101	1
	1		<u></u>	1-2-	
Bedrock			Superficial depo	sits	
Thanet Formation			Boyn Hill Gravel	Member	
Soil association(s) 1	1:250,000			iled soil information	
Hucklesbrook			None	2	
Revision Number			Date Revised		
1			15/03/2019		

NGR X	Alt (m)	Slope °	Aspect Land us	Ton Ir	ttm Thi	k Munsell co	lour Form	Munsell colo	ur Form M	funsell colour	Gley	exture	% > 2cm	> 6cm Tvn	e «	Stones - type 2 > 2cm > 6cm Type	Strength Size S	hape	B2 21K Cac	.03 Mn	C SPL MR	w MRn	id WC	Gw	Limitation 1 Limita	tion 2 Limitation	3 Grade	Profile notes	Client Ref.
TQ 63531 80422 563532	180423 25	≤7		0 1	0 10						,	MSL - Med	lium sandy lo	am	TÎ						-10	8 -106	1		- I - I		Non-Ag		12-076
FQ 63431 80422 563432	180423 26	≤7		0 3	0 30	10YR4/2 7.5YR4/4					No L	MSL - Me i	25 11	6 HR	- All ha	rd rocks or stones (i.e. those or rocks or stones (i.e. those	which cannot be scratch	hed wi No	t Applic NO	N - NNo	No -60	-58 4	WCI	1	Droughtiness		4	IMP: at 70cm, assume gravel, >70: HR and stop rooting at 90cm? 3a	
				45 6 60 7	0 15	7.5YR4/6 7.5YR4/6					No L	MS - Loa MS - Loa MS - Loa	20 50	HR HR	- All ha - All ha	rd rocks or stones (i.e. those rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratch	hed wi Mo	derate NO	N - NNo	No							TS stone, 3b drought?	
2 63331 80422 563332	180423 25	≤7		30 4	5 15	10YR3/3 10YR3/3 5YR4/4					No N	uSL - Med	3 lium sandy lo loam (heavy)	am	- All ha	rd rocks or stones (i.e. those	which cannot be scratch	Mo	t Applic NO oderate NO oderate NO	N - NNo	No	ı -6 3	Bb WCI	1	Droughtiness		3b	Flinty gravel at 70cm +	12-078
Q 63424 80514 563425	180514 26	≤ 7				10YR4/2						VISZL - M S	5	HR	- All ha	rd rocks or stones (i.e. those	which cannot be scratcl	hed wi No	t Applic NO	N - NNo	No -5	-3 :	la WCI	1	Droughtiness		За	IMP: at 75cm, assume gravel, >70	% 12-083
				55 7 70 7	0 15	10YR4/4 7.5YR4/5 7.5YR4/5					No M	SZL - Fin S VISZL - M 4 VISZL - M 7 VISZL - M 7	10 70	HR HR	- All ha - All ha	rd rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or rocks or stones (i.e. those or	which cannot be scratch which cannot be scratch	hed wi Mo hed wi Mo	oderate NO oderate NO	N - NNo	No							HR and stop rooting at 95cm? 2/3a drought?	
63331 80522 563332	180523 27	≤7		38 5	0 12	10YR3/3 7.5YR4/4 7.5YR4/4					No N	SL - Fine MSZL - Me MSZL - Me	3 2 dium sandy s dium sandy s	HR iilt loam iilt loam	- All ha	rd rocks or stones (i.e. those	which cannot be scratch	hed wi No Mo	t Applic NO oderate NO oderate NO	N - NNo N - NNo N - NNo	No -16 No No	i -2 :	a WCI	1	Droughtiness		3a	difficult to auger 70cm gravel	12-084
Q 63234 80492 563235	180492 25	≤7		0 3	5 35	10YR4/3 10YR4/6					No. I	SZL - Fin 8	3 3	HR	- All ha	rd rocks or stones (i.e. those or stones (i.	which cannot be scratch	hed wi No	t Applic NO	N - NNo	No -7	-6 3	la WCI	1	Droughtiness		3a	IMP: at 70cm, assume gravel, >70: HR and stop rooting at 90cm?	
				50 6 60 7	0 10	10YR4/6 10YR4/6					No F	SZL - FINS MSZL - M MSZL - M	50 70	HR HR	- All ha - All ha	rd rocks or stones (i.e. those rd rocks or stones (i.e. those rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratch which cannot be scratch	hed wi Mo hed wi Mo	oderate NO oderate NO	N - NNo	No No							3a/b drought?	
Q 63431 80623 563432	180623 27	≤ 7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4	1				Non-Ag		12-093
Q 63331 80623 563332	180623 27	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4	1				Non-Ag		12-094
Q 63231 80623 563232	180623 27	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101	ı				Non-Ag		12-095
0 63131 80623 563132	180623 25	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101	1				Non-Ag		12-096
0 63331 80722 563332	180723 27	£7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4					Non-Ag		12-105
Q 63231 80722 563232	180723 27	≤7		0 1	0 10						F	SZL - Fine	sandy silt loa	am							-10	3 -101 4	ı				Non-Ag		12-106
A 62121 90722 F626-	190722 25	-7			0 4-							C71 - C71	and the									2 101					No. 1		13.40-
Q 63131 80723 563132	160/23 25	5/		U 1	0 10						F	SZL - FINE	sandy silt loa	arri							-10.	3 -101 4					Non-Ag		12-107
Q 63031 80723 563032	400722 22																					2 404							
7 02021 80/53 263035	160723 22	5/		0 1	0 10							ozt - Fine	sandy silt loa	1111							-10	3 -101 4	·				Non-Ag		12-108

	Grid i	ef.	1	1		Dent	th (cm)	Matrix	Ochre	eous Mottles	Grey Mo	ottles			Stones	s - type 1	Stones	s - type 2	1	Ped			-	Drought	Wet	Final ALC		Client
Point	NGR)	Y	Alt (m)	Slope °	Aspect Land use	e Top Bt	tm Thick	Munsell colour				Il colour G	Sley T	Texture % >	2cm	> 6cm Type	% > 2cm	> 6cm Type			SUBS STR	CaCO3 Mr	n C SPI	MBw MBp Gd		Limitation 1 Limitation 2 Limitation 3 Grade	Profile notes	Ref.
	,	ŗ	'	ı	' '				1. 1											1					. ,.			
15	TQ 62931 80723 5	62932 1807	23 22	≤ 7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-109
16	TQ 63131 80822 5	63132 1808	23 30	≤7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-115
17	TQ 63031 80822 5	63032 1808	23 26	S 7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-116
18	TQ 62931 80823 5	62932 1808	23 26	£7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-117
19	TQ 62831 80823 5	62832 1808	23 27	S 7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-118
	TQ 62831 80922 5					0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-129
21	TQ 62731 80923 5	62732 1809	23 24	£7		0 10	0 10						F	FSZL - Fine sand	y silt loa	am								-103 -101 4		Non-Ag		12-130
	END																		l									

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC V

WC VI

ALC Grado

1

2 3a

> 3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13G	C629 LTC ALCSF	² 13G			13G
	,		,		
Date of Survey	Survey Type		Surveyor(s)		mpany
15/04/2019			RA	Asl	kew Land and Soil
Weather		Relief		Land use and	vegetation
Dry, Sunny		Level		LEY (Ley Grass	_
Grid Reference			Postcode	Altitude	Area
TQ66388052			RM16 3DB	24	22.79999924
MAFF prov		MAFF detaile	<u></u>	Flooding	
Grade 3		None	<u>u</u>	Flood Zone 1	
			_		
AAR	AT0	MDw	MDp	FCD	Climate grade
555	1471	125	123	101	1
Bedrock			Superficial depo	citc	
Lambeth Group			Boyn Hill Gravel	Member	
Soil association(s)	1:250,000		Detai	iled soil information	
Hucklesbrook			None	2	
D. M. M. M.			loui o i d		
Revision Number			Date Revised		
1			15/03/2019		

NGR X Y	Slope O Aspect Land use		m) Matrix Thick Munsell cold	Ochreous Mottles		Gley Te	exture Stones - type	Type	Stones - type 2	Z Ped Type Strength Size Shap	SUBS ST	R CaCO3	Mn C SPL	Drought MRw MRn (Gd WC Gw	Limitation 1 Limitatic	on 2 Limitation 3 Grade	Profile notes	Client Ref.
Q 63831 80523 563832 180523 24	≤7	0 30	30 10YR3/2		- I om Iwansen colour		CL - San 5 4 1	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	WILLIAM WHI	PIIC NON - I	INIO INO	4 -14	3a WCI 1	Droughtiness	3a		12-080
			10 7.5YR3/2 60 7.5YR3/3				CL - Sandy cl: 1 CL - Sandy cl: 1			e. those which cannot be scratched e. those which cannot be scratched									
	· ·	+0 100 (JU 7.51R5/5			INU SC	L - Salidy Ck 1	HK - All III	ard rocks or stories (i.e	. triose which carriot be scratched	williviouera	te SC - Sile	3 NO INO						
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263731 80523 563732 180523 25	≤7	0 10 :	10			Sc	CL - Sandy clay loam							-108 -106	4		Non-Ag	g	12-081
	· ·																		
	· ·																		
	Į.																		
Q 64130 80630 564131 180631 24			32 10YR3/3		1		CL - San 5			e. those which cannot be scratched				-29 -22	3b WCI 1	Droughtiness	3b	IMP: at 68cm, assume gravel, >70%	6 12-086
			18 7.5YR4/4 10 7.5YR4/6			No M	AZCL - Si 3 - Clay 2			e. those which cannot be scratched e. those which cannot be scratched		non - 1 NON - 1						HR and stop rooting at 88cm?	
		60 68 8	8 7.5YR4/6			No C	- Clay 50	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wi Poor	NON - I							
		68 88 2	20			C	- Clay 75	HR - All h	ard rocks or stones (i.e	e. those which cannot be scratched	wi Poor		No						
						Ш			·										
264031 80622 564032 180623 24	≤7		30 10YR4/2 25 10YR5/4	-	T	No M	CL - San 5 1ZCL - Si 10	HR - All h	ard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App	olic NON - I	Non-cal No	-16 -17	3a WCI 1	Droughtiness	3a	IMP: at 85cm, assume gravel, >70%	6 12-087
			25 10YK5/4 25 7.5YR4/5				- Clay 2	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wi Poor	NON - I						HR and stop rooting at 105cm?	
		80 85 !	5 7.5YR4/6			No SC	C - Sand 30	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wir Poor	NON - I							
		85 105 2	20			20	C - Sand 75	HR - All na	ard rocks or stones (i.e	e. those which cannot be scratched	wit Poor		No						
						\perp													
Q 63931 80622 563932 180623 26	≤7		32 10YR4/3 18 10YR4/4			No FS	CL - San 3 SZL - Fin 2	HR - All ha	ard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App	olic NON - 1	Non-cal No	-21 -14	3b WCI 1	Droughtiness	3b	IMP: at 68cm, assume gravel, >70% HR and stop rooting at 88cm?	ة 12-088
		50 60 :	10 7.5YR4/6			No C	- Clay 1	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wir Poor	NON - I	No No					nn and stop rooting at ootin.	
		60 68 8	8 7.5YR4/6			No C	- Clay 50	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wir Poor		NNo No						
	!	68 88 2	20				- Clay 75	HK - An ne	ard rocks or stones (i.e	e. those which cannot be scratched	WILLOOL		No						
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Q 63831 80622 563832 180623 26			30 10YR3/3 10 10YR3/3				SZL - Fin 3 3 CL - Sandy clay loam	HR - All ha	ard rocks or stones (i.e	e. those which cannot be scratched		plic NON - I ate NON - I		-22 -12	3b WCI 1	Droughtiness	3b		12-089
		40 50 :	10 7.5YR4/4			No H	ICL - Clay loam (heavy)	1			Modera	ate NON - I	No No						
		50 60	10 7.5YR4/4			C	- Clay	1			Modera	ite NON - I	Non-cal No						
	!																		
		- 20	: 21/02/2			4.4							-				21.		1
Q 63731 80622 563732 180623 27	≤7		30 10YR3/3 15 7.5YR3/2				ISZL - M 4 3 1 CL - Sandy clay loam	HR - Ali na	ard rocks or stones (i.e	e. those which cannot be scratched	Wif Not App Modera	ilic NON - r ate NON -	NNo No	-22 -6 :	3b WCI 1	Droughtiness	30		12-090
		45 60 :	15 7.5YR4/4			No H	ICL - Clay loam (heavy)	1			Modera	ate NON - I	NNo No						
		60 70 :	10 5YR4/4			C	- Clay	1			Modera	te NON - I	Non-cal No						
	!																		
Q 63635 80633 563636 180633 27		2 10	10			44	27C' Cilturalan Inam (madin	1					\bot	-106 -104 4			Non A		12.001
1 63635 80633 563650 100055 Zr	5/	0 10 :	10			l ivi	MZCL - Silty clay loam (mediur	n)						-106 -104 -	*		Non-Ag	g	12-091
	!																		
	!																		
								1											
Q 64332 80748 564333 180748 22	~	n 28	28 10YR3/2		 	No FS	SZL - Fin 6	HR - All h	aard rocks or stones (i	e. those which cannot be scratched	wit Not And	nlicable	No No	24 -6	2 WCI 1	Droughtiness	2		12-097
(04332 00/40 304333 200/40 22		28 50 2	22 10YR5/3			No M	ACL - Cla 10	HR - All ha	nard rocks or stones (i.e	e. those which cannot be scratched	wi Modera	ate	No No	24 0 .	2 WCI 1	Drougnances	ľ		12-05,
	!	50 120	70 10YR5/3	CD - C 7.5YR5/6	CD - C 2.5YR5/1	No H	ICL - Clar 16	HR - All h			wi Modera	ıte	No No						
									iaru rocks or stories (i.	e. those which cannot be scratched			1 1		1				
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	1								lard rocks or stones (i.	e. those which cannot be scratched									
O 64731 80773 564737 180773 77						50						dic NON - I	Non-cal No	-2 -17	25 WCI 1	Droughtiness	3a	Augoral to 95cm Assume gravelly	12.098
Q 64231 80723 564232 180723 22		0 30 3 30 50 2	30 10YR4/3 20 10YR4/5			No M	CL - San 5 1ZCL - Si 5	HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App	ate NON - N	No No	-3 -17	3a WC I 1	Droughtiness		Augered to 95cm. Assume gravelly clay to 120cm, with c. 50% flints?	
Q 64231 80723 564232 180723 22		0 30 3 30 50 2 50 80 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5			No M	CL - San 5 1/2CL - Si 5 - Clay 3	HR - All ha HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor	1 - NON ate 1 - NON	NNO NO	-3 -17	3a WCI 1	Droughtiness		clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is	
<u>)</u> 64231 80723 564232 180723 22		0 30 3 30 50 2 50 80 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6			No M No C No SC	CL - San 5 1ZCL - Si 5 - Clay 3 C - Sand 5	HR - All ha HR - All ha HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor	1 - NON ate 1 - NON	No No	-3 -17	3a WCI 1	Droughtiness	3a	clay to 120cm, with c. 50% flints?	
2,64231 80723 564232 180723 22		0 30 3 30 50 3 50 80 3 80 95	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6			No M No C No SC	CL - San 5 1/2CL - Si 5 - Clay 3	HR - All ha HR - All ha HR - All ha HR - All ha	nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e nard rocks or stones (i.e	e. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor	1 - NON ate 1 - NON	NNO NO	-3 -17	3a WCI 1	Droughtiness	За	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is	
		0 30 3 30 50 5 50 80 3 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25			No M No C No SC C	CL - San 5 1ZCL - Si 5 - Clay 3 C - Sand 5	HR - All h HR - All h HR - All h HR - All h HR - All h	nard rocks or stones (i.e. nard rocks or stones (i.e. nard rocks or stones (i.e. nard rocks or stones (i.e.	e. those which cannot be scratched e. those which cannot be scratched t. those which cannot be scratched e. those which cannot be scratched e. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor	ate NON - I 1 - NON 1 - NON	NNO NO NNO NO NNO NO NO				3a 3a 3a 3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine.	
	s7	0 30 : 30 : 50 : 50 80 : 50 80 : 50 95 : 120 : 50 36 : 55 : 50 : 50 : 50 : 50 : 50 : 50 : 5	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4			No M No C No SC C	CL - San 5 AZCL - Si 5 - Clay 3 - Cand 5 - Clay 50 CL - San 3 AZCL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. ard rocks or stones (i.e.	those which cannot be scratched those which amnot be scratched those which amnot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor	NON - I NON - I NON - I plic NON - I	NO NO NO NO NO NO NO NO NO NO NO NO NO N	11 -13		Droughtiness Droughtiness	3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine.	
	হ্য	0 30 3 30 50 5 50 80 8 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4			No M No C No SC C	CL - San 5 17CL - Si 5 - Clay 3 C - San 5 - Clay 50 CL - San 3 17CL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. ard rocks or stones (i.e.	2. those which cannot be scratched be those which cannot be scratched to those which cannot be scratched be those which cannot be scratched those which cannot be scratched to those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor	plic NON - I NON - I NON - I NON - I NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13			3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
	হ্য	0 30 3 30 50 5 50 80 8 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4			No M No C No SC C	CL - San 5 AZCL - Si 5 - Clay 3 - Cand 5 - Clay 50 CL - San 3 AZCL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. ard rocks or stones (i.e.	those which cannot be scratched those which amnot be scratched those which amnot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor	NON - I NON - I NON - I plic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13			3a 3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
	হ্য	0 30 3 30 50 5 50 80 8 80 95 95 120 3	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4			No M No C No SC C	CL - San 5 17CL - Si 5 - Clay 3 C - San 5 - Clay 50 CL - San 3 17CL - Si 2	HR - All ha HR - All ha	nard rocks or stones (i.e. ard rocks or stones (i.e.	those which cannot be scratched those which amnot be scratched those which amnot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor	plic NON - I NON - I NON - I NON - I NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13			3a 3a	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
Q 64131 80723 564132 180723 24	s7	0 30 50 50 50 50 80 50 80 95 120 50 80 55 55 85 85 85 85 85 85 85 85 85 85 85	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 5 7.5YR4/6 25 36 10YR4/2 19 10YR5/4 30 10YR6/8			No M No C No SC C SC No M No C No SC	CL - San S IZCL - Si S - Clay 3 - C - San 5 - Clay 50 CL - San 3 IZCL - Si 2 - Clay 2 - Clay 2 - Clay 2	HR - All h HR - All h	nard rocks or stones (i.e. and rocks or stones (i.e.	e. those which cannot be scratched. those which cannot be scratched. those which cannot be scratched. those which cannot be scratched. those which cannot be scratched. those which cannot be scratched. those which cannot be scratched. those which cannot be scratched. those which cannot be scratched.	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor	plic NON - I NON - I NON - I NON - I NON - I NON - I	NON NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1	Droughtiness	3.9	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
1264131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR5/4 30 10YR5/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San S IZCL - Si S - Clay 3 - C - San G - C - San G - C - San B - CL - San B - CL - San B - CL - San B - CL - San B - CL - San S - Clay 2 - Clay 2 - San G - San G - San G - San S	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	2. those which cannot be scratched 3. those which cannot be scratched 4. those which cannot be scratched 5. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1		3a 3a 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	
Q 64131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San 5 MZCL - Si5 MZCL - Si5 - Clay 3 C - Sand 5 - Clay 50 CL - San 3 MZCL - Si 2 MZCL - Si 2 C - San 0 SL - Find 5	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched b. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1	Droughtiness	3a 3a 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR5/4 30 10YR5/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San S IZCL - Si S - Clay 3 - C - San G - C - San G - C - San B - CL - San B - CL - San B - CL - San B - CL - San B - CL - San S - Clay 2 - Clay 2 - San G - San G - San G - San S	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	2. those which cannot be scratched 3. those which cannot be scratched 4. those which cannot be scratched 5. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1	Droughtiness	33	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24	डा	0 30 3 30 50 3 50 80 3 80 95 2 95 120 2 0 36 55 5 55 85 85 85 85 85 85 85 85 85 85 85 85 8	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR5/4 30 10YR5/4 35 10YR6/8			No M No C No SC C No M No C No SC No SC	CL - San S IZCL - Si S - Clay 3 - C - San G - C - San G - C - San B - CL - San B - CL - San B - CL - San B - CL - San B - CL - San S - Clay 2 - Clay 2 - San G - San G - San G - San S	HR - All hi HR - All hi	nard rocks or stones (i.e. ard rocks or stones (i.e.	2. those which cannot be scratched 3. those which cannot be scratched 4. those which cannot be scratched 5. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Poor wi Not App wi Not App	plic NON - I polic NON - I NON - I polic NON - I NON - I NON - I polic NON - I	N NO NO NO NO NO NO NO NO NO NO NO NO NO	11 -13 :	3a WCI 1	Droughtiness	3a 3a 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64231 80723 564232 180723 22 TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	s7 s7	0 30 5 30 50 5 80 95 1 95 120 0 0 36 5 55 85 1 85 120 1	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 AZCL - Si5 CCL - Si5 - Clay 3 CC - Sand 5 - Clay 50 CL - San 3 AZCL - Si 2 - Clay 2 - Clay 2 - Sand 0 SL - Fine 5 SL - Fine 5 SZL - Fine 4	HR - All hi HR - All hi	hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e. hard rocks or stones (i.e.	2. those which cannot be scratched 2. those which cannot be scratched 3. those which cannot be scratched 5. those which cannot be scratched 6. those which cannot be scratched 6. those which cannot be scratched 6. those which cannot be scratched 7. those which cannot be scratched 8. those which	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I plic NON - I NON - I NON - I NON - I	NNO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	33	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 20 10YR4/6			No	CL - San 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 7 1/2CL -	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness	333	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 10YR4/2 36 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 22 10YR4/2 22 10YR4/2			No	CL - San 5 IXCL - Si 5 IXCL - Si 5 IXCL - Si 5 IXCL - Si 5 IXCL - Si 5 IXCL - San 3 IXCL - San 3 IXCL - San 3 IXCL - San 3 IXCL - Si 2 IXCL - Si 2 IXCL - Si 3 IXC	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched to those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	3a 3a 2 2 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 7 1/2CL -	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	3a 3a 2 2 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	ภ ภ	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 5 1/2CL - Si 7 1/2CL -	HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi HR - All hi	hard rocks or stones [i.e. hard rocks or stones	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera	plic NON - I plic NON - I NON - I plic NON - I NON - I plic NON - I ate NON - I ate NON - I	NNO NO	11 -13 :	3a WCI 1	Droughtiness Droughtiness	33	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC	12-099
TQ 64131 80723 564132 180723 24 TQ 64031 80723 564032 180723 24	<i>ជ</i>	0 30 30 30 30 30 30 30 30 30 30 30 30 30	30 10YR4/3 20 10YR4/5 30 7.5YR5/5 15 7.5YR4/6 25 36 10YR4/2 19 10YR4/4 30 10YR5/4 35 10YR6/8 22 10YR4/2 48 10YR4/3 50 10YR4/6			No	CL - San 5 4CL - San 5 4Clay 3 5 - Clay 3 5 - Clay 50 CL - San 3 4CL - Si 2 4CL - Si 2 4CL - Si 2 5L - Fins 5 SL - Fins 5	HR - All h HR - All h	hard rocks or stones (i.e. and rocks or stones (i.e.	b. those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched those which cannot be scratched	wi Not App wi Modera wi Poor wi Poor wi Poor wi Poor wi Poor wi Not App wi Modera wi Not App wi Modera wi Not App wi Modera wi Modera wi Modera wi Modera	plic NON - I plic NON - I non - I plic NON - I plic NON - I non - I plic NON - I plic NON - I plic NON - I ate NON - I plic NON - I ate NON - I ate NON - I	NNO	11 -13 : 58 -3 :	3a WCI 1	Droughtiness Droughtiness	3a 3a 2 2 2 2	clay to 120cm, with c. 50% flints? TS feels quite silty, sand fraction is mostly fine. Augered to 100cm, assume SC continues same to 120cm	12-099

a tank	Grid ref.		Alt (m)		Aspect Land		Depth	(cm)	Matrix		Ochreous Mo	ttles	Grey Mottles	Clas	Texture		Stones - ty	rpe 1		Stones - type	2	Ped	CLIDE CT	R CaCO3	84m C C	CDI	Drought	W			Final ALC		Profile notes	CI
NGR	х	Y	Aut (m)) Slope ^c	Aspect Land (Top	Bttm	Thick	Munsell co	lour Fo	rm Munsell o	olour F	orm Munsell col	our		% > 2		m Type				Strength Size Sha	pe			MB		d WC	Gw	Limitation 1 Li	mitation 2 Limitation	n 3 Grade	riville notes	Re
	·	·		·		50	120	70	10YR4/6		•		·	No	FSZL - Fir	14		HR - A	ll hard roo	ks or stones (i.	e. those w	which cannot be scratched	wi Modera	te NON - N	No I	No					·			
TQ 63	3731 80723 5637	732 180723	27	≤7			45	15	10YR3/3 10YR3/2 7.5YR4/4					No No	SCL - Sar SCL - Sar SCL - Sar	idy clay lo idy clay lo	oam oam	HR - A	ll hard roo	ks or stones (i.	e. those w	which cannot be scratched	Modera: Modera:	te NON - N te NON - N	No I	No No	-21 3	b WCI	1	Droughtiness		3b		12
TQ 64	4431 80823 5644	432 180823	29	S 7		60	10		7.5YR4/6					No	MS - Me		andy silt lo	am					Modera	te NON - N	No 1		5 -104 4					Non-Ag		12
TQ 64	4331 80823 5643	332 180823	28	≤7			42	9	10YR3/3 10YR3/2 5YR4/4					No	MSZL - N MCL - Cl MCL - Cl	ay loam (ı		HR - A	ll hard roo	ks or stones (i.	e. those w	which cannot be scratched	Modera	lic NON - N te NON - N te NON - N	No I	No	-2 2	WCI	1	Droughtiness		2		1
TQ 64	4231 80823 5642	232 180823	28	≤7			40	5	10YR3/3 10YR3/2 5YR4/4					No No No	MSZL - N MCL - Cl: MCL - Cl:	ay loam (ı		HR - Al	ll hard roc	ks or stones (i.	e. those w	which cannot be scratched	Modera	lic NON - N te NON - N te NON - N	No I	No	-2 2	WCI	1	Droughtiness		2		1
TQ 64	4130 80804 5641	131 180804	26	≤7			40	10	10YR4/2 10YR4/3 7.5YR4/3					No	SCL - Sar SCL - Sar HCL - Cla	dy clay lo	oam	HR - A	ll hard roc	ks or stones (i.	e. those w	which cannot be scratched	Modera	lic NON - N te NON - N te NON - N	No I	No	-11 3	a WCI	1	Droughtiness		3a		1
TQ 64	4032 80787 5640	033 180788	27	≤7		78	40	40	5YR4/4 10YR4/2					No	MS - Me	dium San	1	HR - Al	Il hard roo	ks or stones (i.	e. those w	which cannot be scratched	Modera	te NON - N	No I	No -7	-13 3	a WCI	1	Droughtiness		3a		1
						60	80	20	7.5YR4/4 7.5YR4/4 7.5YR4/4					No	SCL - Sar SCL - Sar C - Clay	dy clay lo							Modera	te NON - N te NON - N te NON - N	No I	No								
TQ 64	4531 80922 5645	532 180923	31	≤7		0	10	10							MSZL - N	Medium sa	andy silt lo	am								-106	5 -104 4					Non-Ag		1
TQ 64	4432 80911 5644	433 180912	29	≤7		0	10	10							MSZL - N	Medium sa	andy silt lo	am								-106	5 -104 4					Non-Ag		1
END																																		

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy NA - N/A

MASS - Massive

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI

WC II WC III

WC IV

WC V

WC VI

2

3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
13H	C629 LTC ALCSI	P13H			13H
Date of Survey	Survey Type		Surveyor(s)	Cor	npany
15/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	vegetation
Dry, Sunny		Level		LEY (Ley Grass)	
			_		
Grid Reference			Postcode	Altitude	Area
TQ63928086			RM16 3BA	27	31.10000038
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
557	1467	125	122	101	1
Bedrock			Superficial depo	sits	
Lambeth Group			Boyn Hill Gravel	Member	
Soil association(s) 1	1:250,000		Deta	iled soil information	
Hucklesbrook			None	<u> </u>	
			1		
Revision Number			Date Revised		
1			15/03/2019		

oint Grid ref.		. Denth	(cm) Matrix	Ochreous Mottles	Grey Mottles	L	Stones - typ	e 1 Stones - type 2	Ped		1	L. T	Drough	it Wet	Fina	I ALC	L
		Top Bttm	Thick Munsell colour	Form Munsell colour	Form Munsell colour Gley	Texture	% > 2cm > 6cm	type % > 2cm > 6cm Type	Strength Size Shape	SUBS STR	CaCO3	Mn C SP	MBw MBp	Gd WC Gv	v Limitation 1 Limitation 2	Limitation 3 Grade	Profile notes
TQ 63926 80866 563927 1808	866 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63826 80866 563827 1808	966 29 47	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
10 03020 80800 303027 1800	00 20 37	0 10	10			IVICE - CIO	y loani (medidin)						-107 -104	"		Non-Ag	
TQ 63734 80875 563734 1808	376 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 64232 80914 564233 1809)15 28 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
						1											
TQ 63509 80922 563510 1809	022.26 67	0 10	10			MCI CI-	u loom (modius-)		1			\vdash	-107 -104	4		No- A-	
14 03503 80322 503510 1805	22 20 5/	0 10	10			IVICE - Cla	y loam (medium)						-107 -104	*		Non-Ag	
TQ 63431 80922 563432 1809	923 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
							,,										
TQ 64332 80949 564333 1809	349 28 ≤7	0 20	20 10YR4/2		Yes	MCL - Cla	1	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	Not Applic	SC - Slig	No No	-1 -6	3a WCI 1	Droughtiness	3a	Assumed no spl;
		20 40	20 10YR4/2	CD - C 10YR5/6	Yes	MCL - Cla	y loam (medium)			Moderate	SC - Slig	No No					
			12 10YR4/2				y loam (heavy) y loam (heavy)			Moderate Moderate							
		52 90	38 10YR4/4		NO	HCL - Cla	y ioam (neavy)			ivioderate	IVIC - IVI	NO NO	,				
TQ 64532 81029 564532 1810	J30 32 ≤7	0 40	40 10YR4/3			SCL - San	10	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	ith a finger	NON - N	Ion-calca	rec5 -22	3a WCI 1	Droughtiness	3a	IMP: at 90cm, have assumed s
		40 90	50 2.5Y5/5 30 2.5Y5/5		No No	SCL - San SCL - San	15	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w	Moderate	NON - N	No No					content increases to 30% and continues same to 120cm. 2,
		90 120	30 2.313/3		INO	SCL - Sali	30	nk - All flatu focks of stories (i.e. those	William callifor be scratched w	iviouerate	NON - IV	INO INC	,				drought?
TQ 63431 81022 563432 1810	022.25 <7	0 10	10			MCI Cla	y loam (medium)			-		-	-107 -104	4		Non-Ag	
10 03431 01022 303432 1010	.23 23 5/	0 10	10			IVICE - Cla	y loani (medidin)						-107 -104	*		Non-Ag	
		1			1				1	1							Ì
															1	J	
TQ 63331 81022 563332 1810	23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810	123 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810)23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810)23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
TQ 63331 81022 563332 1810)23 27 ≤7	0 10	10			MCL - Cla	y loam (medium)						-107 -104	4		Non-Ag	
		0 35	35 10YR4/3			MSZL - M	10	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	ith a finger	NON - N	lon-calca	rec-19 -33		Droughtiness	Non-Ag	IMP: at 100cm, assume grave
		0 35 35 70	35 10YR4/3 35 5Y5/5		No	MSZL - M LMS - Loa	10 10	HR - All hard rocks or stones (i.e. those	which cannot be scratched w	Moderate	NON - N	No No	rec-19 -33		Droughtiness		continues same to 120cm. 3
		0 35 35 70 70 90	35 10YR4/3 35 5Y5/5 20 5Y5/5		No No	MSZL - M LMS - Loz LMS - Loz	10 10 20	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	i Moderate i Moderate	NON - N	No No	rec-19 -33		Droughtiness		IMP: at 100cm, assume grave continues same to 120cm. 3a drought?
		0 35 35 70 70 90	35 10YR4/3 35 5Y5/5		No No	MSZL - M LMS - Loa	10 10 20	HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	i Moderate i Moderate	NON - N	No No	rec-19 -33		Droughtiness		IMP: at 100cm, assume gravel continues same to 120cm. 3a drought?
		0 35 35 70 70 90	35 10YR4/3 35 5Y5/5 20 5Y5/5		No No	MSZL - M LMS - Loz LMS - Loz	10 10 20	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	i Moderate i Moderate	NON - N	No No	rec-19 -33		Droughtiness		continues same to 120cm. 3a
TQ 63331 81022 563332 1810	074 32 ≤7	0 35 35 70 70 90 90 120	35 10YR4/3 35 5Y\$/5 20 5Y\$/5 30 5Y5/5		No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate i Moderate i Moderate	NON - N NON - N	No No No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought?
	074 32 ≤7	0 35 35 70 70 90 90 120	35 10YR4/3 35 5Y\$/5 20 5Y\$/5 30 5Y\$/5		No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate i Moderate i Moderate i Not Applic	NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1			continues same to 120cm. 3a drought?
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - Fr10Y85/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought? Gravel stone present 40cm ar difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - F410YRS/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3: drought?
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - Fc10YRS/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3: drought? Gravel stone present 40cm ai difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32 ≤7	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5YS/5 20 5YS/5 30 5YS/5 30 10YR4/3 20 10YR4/3	FD - F¢10YR5/6	No No No	MSZL - M LMS - Loa LMS - Loa LMS - Loa SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought? Gravel stone present 40cm ar difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32	0 35 35 70 70 90 90 120 0 30 30 50 50 60	35 10YR4/3 35 5Y5/5 20 5Y5/5 30 5Y5/5 30 10YR4/3 20 10YR4/3 10 10YR5/4	FD - Fc10YR5/6	No No No	MSZL - M LMS - Loz LMS - Loz LMS - Loz SCL - San SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	-33 -35 -27	3b WCI 1		3b	continues same to 120cm. 3: drought? Gravel stone present 40cm ai difficult to auger 60cm + ston
TQ 64629 81073 564630 1810	074 32	0 35 35 70 70 90 90 120 0 30 30 50	35 10YR4/3 35 5Y5/5 20 5Y5/5 30 5Y5/5 30 10YR4/3 20 10YR4/3 10 10YR5/4	FD - F4 10YR5/6	No No No	MSZL - M LMS - Loz LMS - Loz LMS - Loz SCL - San SCL - San SCL - San	10 10 20 30	HR - All hard rocks or stones (i.e. those HR - All hard rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	Moderate i Moderate i Moderate i Moderate i Not Applic i Moderate	NON - N NON - N NON - N NON - N	No No	rec-19 -33	3b WCI 1		3b	continues same to 120cm. 3a drought? Gravel stone present 40cm ar difficult to auger 60cm + ston

Grid ref. Ab (Stones - type 1 Stones - type 2 Ped	Unc can Carcon Mar C con Drought Wet	Final ALC
oint NGR X Y Alt (m) Slope ° Aspect Land use Top Bittui Thick Munsell colour Form ey Texture Stories - type 1 Stories - type 2 Fed	UBS STR CaCO3 Mn C SPL MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade	
The property of the property o	The second state of the se		Elimaton 2 Elimaton 3 Orac
4 TQ 63231 81123 563232 181123 27 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
5 TQ63131 81122 563132 181123 25 ≤7 0 10 10	MC Contraction	-107 -104 4	No. 4
5 1(103131 81122 503132 181123 25 5/ 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
6 TQ 64832 81162 564833 181162 32 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
7 TQ 63231 81223 563232 181223 26 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
8 TQ 63131 81223 563132 181223 25 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
9 TQ 63131 81322 563132 181323 25 ≤7 0 10 10	MCL - Clay loam (medium)	-107 -104 4	Non-Ag
END END			
END			

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse NA - N/A

VC - Very Coarse

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI

WC II WC III

WC IV

WC V

WC VI

2

3a

3b

4

5 Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
131	C629 LTC ALCS	SP13I			131
Date of Survey	Survey Type		Surveyor(s)		npany
15/04/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	_
Grid Reference			Postcode	Altitude	Area
TQ63038112			RM16 3NB	25	24.29999924
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
563	1470	124	122	102	1
Bedrock			Superficial depo	sits	
London Clay Forma	ition/Lambeth Gr	oup	Head/Boyn Hill (Gravel Member	
Soil association(s) 1	1:250,000		Detai	iled soil information	
Hucklesbrook/Wind	dsor		None	2	
<u> </u>			la . a		
Revision Number			Date Revised		
1			15/03/2019		

GR X Y Alt (m) Slope Aspect Lar	d use Depth (cm) Matrix Ochreous Mottles Gre Top Bttm Thick Munsell colour Form Munsell colour Form M	y Mottles unsell colour Gley Texture Stones - type 1 Stones - type 2 Ped w > 2cm > 6cm Type % > 2cm > 6cm Type Stones - type 2 Stones - type 2 Stones - type 2 Ped	SUBS STR CaCO3 Mn C SPL Drought We	et Final ALC Gw Limitation 1 Limitation 2 Limitation 3 Grade Profile notes	Client Ref.
Q 63031 81122 563032 181123 25 ≤7	0 30 30 7.5YR3/3 30 45 15 7.5YR3/4	No MCL - Clay loam (medium)	Moderate VSC - VeNo No	2 Droughtiness 3a red soil ; ; assume spl at 60cm; difficult to auger 70cm + stone; fig	12-150 g
	45 60 15 5YR3/3 60 70 10 5YR3/3	No MCL - Clay loam (medium) No C - Clay	Moderate VSC - V&No No Poor VSC - V&No Yes	8 used	
Q 62931 81122 562932 181123 25 \$7	0 35 35 10/R2/3 35 60 25 7.5/R3/3 60 80 20 7.5/R4/4	No MCL - Cla 2 1 1 HR - All hard rocks or stones (i.e. those which cannot be s No HCL - Clay loam (heavy) No C - Clay	cratched wil Not Applic VSC - V4 No No -12 -4 3a WC1 : Moderate VSC - V4 No No No	1 Droughtiness 3a difficult to auger 80cm stone	12-151
Q 62831 81123 562832 181123 26 <7	0 40 40 7.5YR3/3	No MCL - Cla 1 HR - All hard rocks or stones (i.e. those which cannot be s	scratched wij Not Applic SC - Slig No No 6 -3 2 WC II	2 Droughtiness Wetness 2 SPL assumed >75cm	12-152
	40 75 35 7.5/RA/3 75 100 25 5/RA/3	No MCL - Clay loam (medium) No C - Clay	Moderate SC - Slig No No Poor NON - NNo Yes		
0,62731 81123 562732 181123 25	0 30 30 7.5YR3/3 30 40 10 7.5YR3/3	No MCL - Clil 1 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - Sandy clay loam	cratched wi Not Applic SC - Slig No No -56 -54 4 WC1 : Moderate SC - Slig No No	1 Droughtiness 4 Stone at 40cm difficult to auger (50% stone content)	12-153
Q6263181122 562632 181123 25 ≤7	0 38 38 10YR3/2 38 50 12 SYR4/4 CD-C 10YR5/6	No MCL - Clal 3 2 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Not Applic NON - NO No -42 -40 3b WC III :	3a Droughtiness 3b assumed spl at 38cm and extending to 100cm; fig 7 used; red soil but no gleying	12-154
Q 63031 81223 563032 181223 24 s7	0 30 30 7.5YR4/3 30 38 8 7.5YR3/3 38 50 12 5YR4/4	No SCL - San 2 2 HR - All hard rocks or stones (i.e. those which cannot be s No MCL - Clay learn (medium) No C - Clay	cratched wi Not Applic SC - Slig No No -46 -44 3b WC III : Moderate SC - Slig No No Yes	3a Droughtiness 3b Assume apl at 38cm red soil; difficult to auger 50cm stone	12-164
1 62932 81222 562932 181223 24 ≤7	0 25 25 10YR4/2 25 70 45 10YR4/4 70 75 5 7.5YR4/5 75 95 20 7.5YR4/5	SCL - San 3 HR - All hard rocks or stones (i.e. those which cannot be s NO HCL - Clai 3 HR - All hard rocks or stones (i.e. those which cannot be s NO SC - Sand 50 HR - All hard rocks or stones (i.e. those which cannot be s NO SC - Sand 75 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Moderate NON - NNo No	1 Droughtiness 3a IMP: at 75cm, assume gravel, >70: HR and stop rooting at 95cm? 2/3a drought?	% 12-165
1,62831.81222.562832.181223.26 ≤7	0 25 25 10YR4/2 25 38 13 10YR4/4 38 48 10 10YR4/5 48 68 20 10YR4/5	SCL - San 8 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Moderate NON - NNo No	1 Droughtiness 4 IMP: at 48cm, assume gravel, >70' HR and stop rooting at 68cm? 3a/b drought?	% 12-166
.62731 81222 562732 181223 25 ≤7	0 30 30 10YR3/1 30 38 8 10YR3/4 38 42 4 10YR4/4	No SCL - Sanj 3 2 No MCL - Clay loam (medium) No HCL - Clay loam (heavy)	Not Applic VSC - Ve No No -55 -53 4 WC1 : Moderate NON - No No No Moderate NON - NO No	Droughtiness 4 Stone present at 42 cm difficult to auger (50% stone content)	12-167
(62631 81223 562632 181223 25 ≤7	0 30 30 10YR4/3 30 35 5 10YR4/4 35 42 7 10YR4/4 42 62 20 10YR4/5	SCL - San 15 10 0 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wir Moderate NON - NNo No	Droughtiness 4 IMP: at 42cm, assume gravel, >70' HR and stop rooting at 62cm? 3b drought?	
.63031 81322 563032 181323 24 ≤7	0 25 25 10YR4/3 25 35 10 10YR4/4 35 40 5 10YR4/5 40 60 20 10YR4/5	SCL - San 10 5 0 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 50 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 55 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Moderate NON - NNo No	Droughtiness 4 IMP: at 40cm, assume gravel, >70' HR and stop rooting at 60cm?	<u></u> % 12-173
162931 81323 562932 181323 24 ≤7	0 40 40 10YR3/3	No SCL - San 5 3 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Not Applic VSC - Ve No No -59 -57 4 WC1	Droughtiness 4 Difficult to auger 40cm due to stone50% stone content(?) droughtiness limitation	12-174
162831 81323 562832 181323 26 ≤7	0 30 30 10YR3/2 30 40 10 10YR3/2 40 70 30 7.5YR4/3 70 100 30 7.5YR5/3 CD-C 10YR5/6	NO MSL - Md 5 2 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - Sandy clay loam No SCL - Sandy clay loam Yes SCL - Sandy clay loam	cratched w Not Applic MC - M(No No 5 - 13 3a WC1 : Moderate SC - Slig No No Moderate SC - Slig No No Moderate SC - Slig No No	1 Droughtiness 3a gleyed 70cm+; no spl; groundwater?; topsoil msl/scl	12-175
Q 62731 81310 562732 181310 25 ≤7	0 35 35 10YR4/3 35 120 85 10YR4/4	MSZL - M8 3 0 HR - All hard rocks or stones (i.e. those which cannot be s No SCL - San 10 HR - All hard rocks or stones (i.e. those which cannot be s	cratched wi Not Applic NON - Non-cal No 21 -13 3a WC I :	1 Droughtiness 3a Augered to 100cm, assume continues same to 120cm. 2/3a	12-176

Grid ref.			Depth (c	m) Mat	trix	Ochreous Mottles	Grey Mottles	T	L . I	Stones - typ	e 1	Stones - type 2	Ped	I_			ТТ	Drought	Wet	Final ALC		Client
NGR X Y	Alt (m) Slope	Aspect Land use				Form Munsell colour	Form Munsell colour	Gley	Texture %	> 2cm > 6cm	Туре	% > 2cm > 6cm Type	Strength Size	Shape	OBSSIR	CaCO3 Mn (SPL	1Bw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3 Gra		Ref.
																					drought?	
15 TQ 62531 81422 562532 181423	16 ≤7	4	0 42 42 43	42 10Yi 1 10Yi					HCL - Cla 6 C - Clay 30	5		ard rocks or stones (i.e. those lard rocks)).						52 -50 4	WCI 2	Droughtiness 4	broad beans; difficult to auger 43cm due to stone : no gleying above 40cm and assume no spl above 70cm	12-187
16 TQ 62531 81523 562532 181523	16 s7	2	0 20 20 50	20 10Y 30 7.5Y		CD - C 10YR5/6			C - Clay 3 C - Clay	2	HR - All h	nard rocks or stones (i.e. those	which cannot be scr			NON - N No NON - N No		52 -50 4	WC III 3b	Droughtiness 4	broad beans; ditch recently cleared; difficult to auger 50cm stone?	12-199
17 TQ 62531 81622 562532 181623	16 s7		30 38	52 10Y	R4/2 R4/2	CD - C 10YR5/6 CD - C 10YR5/6 CD - C 10YR5/6		Yes Yes	C - Clay 3 C - Clay C - Clay C - Clay	2	HR - All h	ard rocks or stones (i.e. those	which cannot be scr	P. P.	oor oor	NON - N NO NON - N NO NON - N NO NON - N Yes	Yes Yes	17 -20 3a	WC III 3b	Wetness 3b	broad beans	12-210
18 TQ 62532 81736 562533 181737	14 ≤7		0 30 30 45 45 90		/4/2	CD - C 10YR5/6 CD - C 10YR5/6		Yes	C - Clay C - Clay C - Clay		HR - All h	nard rocks or stones (i.e. those	which cannot be scr	P	oor	NON - N No NON - N No NON - N No	Yes	.9 -19 3a	WC III 3b	Wetness 3b	broad beans; spl at 30cm; topsoil dry/cracked 27/03/2019	12-221
19 TQ 62431 81722 562432 181723	13 ≤7		20 50	20 10Yi 30 10Yi 20 2.5Y	R4/2	CD - C 10YR5/6 MD - 110YR5/6		Yes	C - Clay C - Clay C - Clay		HR - All h	nard rocks or stones (i.e. those	which cannot be scr	P	oor	NON - N No NON - N No NON - N No	Yes	88 -24 3b	WCIII 3b	Droughtiness Wetness 3b	broad beans; difficult to auger 70cm + stone /drain?	12-222
20 TQ 62531 81823 562532 181823	14 ≤7		30 40	30 10Y 10 10Y 50 10Y		FF - Fe 10YR5/6 MD - 10YR5/6		Yes	C - Clay C - Clay C - Clay	1	HR - All h	ard rocks or stones (i.e. those	which cannot be scr	N	/loderate	NON - N NO NON - N NO NON - N NO	No	16 -16 3a	WC II 3a	Droughtiness 3a	broad beans;	12-229
21 TQ 62431 81823 562432 181823	13 ≤7	2	0 20 20 100	20 10Y 80 10Y		CD - C 10YR5/6			C - Clay 1 C - Clay	1	HR - All h	nard rocks or stones (i.e. those	which cannot be scr			NON - N No NON - N No		16 -23 3a	WC III 3b	Droughtiness 3a	broad beans	12-230
END																	1					\dashv

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC VI

ALC Grade

2

3a 3b

4

5 Non-Ag

Gley

None Gley

	13J ompany skew Land and Soil							
As	kew Land and Soil							
Land use and	use and vegetation							
LEY (Ley Grass)								
Altitude	Area							
25	29.39999962							
Flooding	Flooding							
Flood Zone 1								
FCD	Climate grade							
102	1							
102	±							
Superficial deposits								
Head								
ed soil information	ormation							
None								
	ed soil information							

Point Grid ref. Alt (m NGR X Y 1 TQ 62631 81322 562632 181323 25	n) Slope ° Aspect Land	Top Bttm	n) Matrix Thick Munsell colo 30 10YR3/2	Ochreous Mottles ur Form Munsell colour		Gley Tex	ure Sto % > 2cm - San 25 20	nes - type 1 > 6cm T	Type % > 2cm > 6	icm Type	Ped Strength Size Shape hich cannot be scratched w	SUBS STR CaCO	Mn C	SPL Drou MBw Mi	Bp Gd Wo	Wet Gw	Limitation 1 Limita	Final ALC ation 2 Limitation 3	Grade	Profile notes	Client Ref. 12-177
1 14 1601 1011 1011 1011 1011 1011 1011		0 30 .	30 10113/2			NO SEE	20	- '		ies (i.e. tilose ti							57 Oughtiness				12.77
2 TQ 63031 81422 563032 181423 24	£7	27 70	27 7.5YR4/2 43 7.5YR5/4 50 7.5YR5/6			No SCL	- San 12 6 - San 18 - San 20	6		tones (mainly so	hich cannot be scratched w oft stone types listed above		NNo	No -2 -24 No No	1 3a W0	CI 1	Droughtiness		3a		12-182
3 TQ 62931 81422 562932 181423 24	£7	0 32 3	32 7.5YR3/2			No MSI	- Me 18 8	2 F	HR - All hard rocks or ston	nes (i.e. those w	hich cannot be scratched w	ri Not Applic NON	- NNo	No 7 -29	9 3a W0	1 1	Droughtiness		3a	3a drought?	12-183
		32 40 8 40 120 8	8 7.5YR4/1 80 7.5YR4/2			No MSI	- Me 20 - Me 20	G	SH - Gravel with non-pord SH - Gravel with non-pord	ous (hard) stone	:5 :5	Moderate NON Moderate NON	- NNO - NNO	No No							
TQ 62831 81422 562832 181423 26	£7	30 60	30 7.5YR3/2 30 7.5YR6/3 60 7.5YR6/3			No SCL	- San 20 11 - San 18 Clay 20	G	HR - All hard rocks or ston GS - Gravel with porous st GH - Gravel with non-poro	tones (mainly so	hich cannot be scratched w oft stone types listed above es	ii Not Applic NON) Moderate NON Moderate NON	NNo	No -8 -2 No No	7 3a W0	CI 1	Stoniness		3b	3b stones	12-184
TQ 62731 81423 562732 181423 25	র	32 70	32 10YR3/2 38 10YR5/6 50 10YR6/4			No SCL	- Me 16 8 - San 20 - San 25	G		tones (mainly so	hich cannot be scratched w oft stone types listed above		NNo	No 2 -2! No No	5 3a W0	01 1	Droughtiness Stonir	ness	За	3a stones	12-185
6 TQ 62631 81423 562632 181423 19	র	21 50 2	21 10YR3/2 29 10YR586 70 10YR6/4			No SCL	- Me 25 - San 25 - San 30	0	HR - All hard rocks or ston 55 - Gravel with porous st 5H - Gravel with non-poro	tones (mainly so	hich cannot be scratched w oft stone types listed above es	ri Not Applic NON) Moderate NON Moderate NON	NNo	No -9 -3! No No	5 3b W0	CII 1	Stoniness		3b	3b stones	12-186
7 TQ 63131 81523 563132 181523 18	£7	30 50 2 50 75 2	30 10YR4/3 20 2.5Y6/2 25 2.5Y6/2 45 2.5Y6/2	CP - Cc7.5YR5/6 CP - Cc7.5YR5/6 MP - N10YR5/6		Yes SCL	- San 4 - Sandy clay loam - Clay loam (heav		HR - All hard rocks or ston	nes (i.e. those w	hich cannot be scratched w	Moderate NON Poor NON	NYes NYes	No 4 -18 No Yes Yes	3 3a W0	CIII 3a	Droughtiness Wetn	ess	3a	Augered to 100cm, assume continues same to 120cm.	12-193
8 TQ 63031 81523 563032 181523 19	হা	26 50 2 50 70 2	26 10YR4/2 24 2.5Y6/4 20 2.5Y6/3 20 5Y6/3	CP - Cc7.5YR5/6 MP - N7.5YR5/6 CP - Cc10YR5/6		Yes C - 0 Yes C - 0 Yes SC -	lay 2	H	HR - All hard rocks or ston HR - All hard rocks or ston	nes (i.e. those w nes (i.e. those w	hich cannot be scratched w hich cannot be scratched w hich cannot be scratched w hich cannot be scratched w	Poor NON NON NON	NYes NNo	No -24 -2! Yes Yes Yes	5 3b W0	CIII 3b	Droughtiness Wetne	ess	3b	IMP due to stones at 90cm.	12-194
9 TQ 62931 81523 562932 181523 19	<u>\$7</u>	28 50 2	28 10YR4/2 22 10YR5/4 70 10YR5/4	CF - Cc10YR5/6 CF - Cc10YR5/6		No C-0	Clay 15 8 Clay	2 F	HR - All hard rocks or ston	nes (i.e. those w	hich cannot be scratched w	Poor NON	Non-cal Non-cal Non-cal	No	5 3a W0	CIII 3b	Wetness		3b	Augered to 80cm. SS is plastic C, but has 10YR5/4 colour so not strictly gley matrix colour. It is likely to be SPL, hence WCIII, 3b.	12-195
TQ 62832 81522 562832 181523 19	<u>\$7</u>	28 50 2	28 10YR4/2 22 2.5Y5/3 70 10YR5/3	CP - Cc10YR5/6 CP - Cc7.5YR5/6	FP - Fe 2.5Y6/1	Yes C-0	clay 10 5 clay 1 clay 1	H	HR - All hard rocks or ston	nes (i.e. those w	hich cannot be scratched w hich cannot be scratched w hich cannot be scratched w	i Poor NON		No -4 -24 Yes Yes	1 3a W	CIII 3b	Wetness		3b	Augered to 80cm, assume plastic (continues to 120cm	C 12-196
11 TQ 62731 81522 562732 181523 19	s7	28 50 2	28 10YR4/2 22 10YR5/5 70 2.5Y6/3	FF - Fe10YR5/6 MP - N10YR5/8		No C-0 Yes C-0	lay	2 F	HR - All hard rocks or ston	nes (i.e. those w	hich cannot be scratched w	Moderate NON	NYes		5 3a W	CII 3a	Droughtiness Wetne	ess	3a	Augered to 80cm, assume plastic clay continues to 120cm	12-197
12 TQ 62631 81522 562632 181523 19	£7	0 28 2 28 120 9	28 10YR4/2 92 2.5Y6/3	CP - Cc10YR5/6		Yes C-0	Clay 8 4	1 F	HR - All hard rocks or ston	nes (i.e. those w	hich cannot be scratched w	ii Not Applic NON Poor NON	Non-cal	No -2 -2: Yes	2 3a W0	CIII 3b	Wetness		3b	Augered to 60cm, assume plastic (continues to 120cm	C 12-198
13 TQ 62831 81623 562832 181623 19	£7		35 10YR4/2 85 10YR5/3	CD - C 10YR5/6		Yes C - 0	ilay 8 5				hich cannot be scratched w hich cannot be scratched w		· Non-cal · NYes	No -2 -2: Yes	2 3a W0	CIII 3b	Wetness		3b	Augered to 60cm, assume C continues to 120cm.	12-207
14 TQ 62731 81623 562732 181623 19	≤7		30 10YR4/2 90 2.5Y5/3	CP - C<10YR5/8		Yes C-0	llay 8 5				hich cannot be scratched w hich cannot be scratched w		Non-cal		2 3a W0	CIII 3b	Wetness		3b	Augered to 60cm, assume plastic (continues to 120cm	C 12-208

$ \begin{array}{c c} \text{Point} & & & \\ \hline \text{Point} & & & \\ \hline \text{NGR} & & X & Y \\ \hline \end{array} & \begin{array}{c c} \text{Alt (m)} & \text{Slope} \\ \end{array} \\ \end{array} $	Aspect Land use Depth (cm) Top Bttm Thick	Matrix Ochreous Mottles k Munsell colour Form Munsell colour	Grey Mottles Form Munsell colour	Texture Stones - type 1 % > 2cm > 6cm Type	Stones - type 2 % > 2cm > 6cm Type	Strength Size Shape	BS STR CaCO3 Mn C	SPL Drought MBw MBp Gd	Wet WC Gw Limit	Final ALC itation 1 Limitation 2 Limitation 3 Grade	Profile notes Client Ref.
15 TQ 62631 81622 562632 181623 19 ≤7	0 30 30 30 38 8 38 70 32 70 72 2	10YR3/3 10YR5/6 CD - C 10YR5/8	No	MZCL - Si 5 4 HR - All I HCL - Clal 1 C - Clay C - Clay	hard rocks or stones (i.e. those v	which cannot be scratched wi No Mc Por Por	oderate VSC - VeNo or NON - NNo	No -26 -12 3b No Yes Yes	WC III 3a Drou	ughtiness 3b	12-209
16 TQ 62731 81722 562732 181723 14 ≤7	0 35 35 35 50 15 50 120 70	2.5Y5/3 CD - C 10YR5/6	CD - C 2.5Y6/2 Yes Yes	C - Clay 5 HR - All I C - Clay C - Clay	hard rocks or stones (i.e. those v	which cannot be scratched wi No Pool	or NON - NYes	Yes	WC III 3b Wet	tness 3b	Augered to 70cm, assume plastic C 12-219 continues to 120cm
17 TQ 62631 81723 562632 181723 14 ≤7	0 35 35 35 120 85	10YR4/2 2.5Y5/2 CP - Cc10YR5/6	Yes	C - Clay 5 HR - All I	hard rocks or stones (i.e. those v	which cannot be scratched wi No Pool	t Applic NON - Non-ca or NON - Non-ca	al No 1 -19 3a al Yes	WC III 3b Weti	tness 3b	Augered to 60cm, assume plastic clay continues to 120cm
18 TQ 62731 81822 562732 181823 14 ≤7	0 38 38 38 120 82	10YR4/2 10YR4/4		C - Clay 3 HR - All I	hard rocks or stones (i.e. those v	which cannot be scratched wi No Mc	t Applic NON - Non-ca derate VSC - Very sli		WC I 3a Wet	tness 3a	Augered to 70cm where IMP. Very 12-227 dry and dense throughout. 3a TS texture
19 TQ 62631 81822 562632 181823 14 ≤7	0 35 35 35 120 85			C - Clay 1 HR - All I	hard rocks or stones (i.e. those v	which cannot be scratched will No Poor			WC III 3b Weti	tness 3b	Augered to 70cm, assume clay continues to 120cm
20 TQ 62816 81926 562817 181927 12 ≤7	0 25 25 25 120 95		:D - C 2.5Y6/1 Yes			which cannot be scratched wi No which cannot be scratched wi Poo			WC III 3b Weti	3b	Augered to 60cm, assume plastic C 12-235 continues to 120cm
21 TQ 62731 81923 562732 181923 10 ≤7	0 28 28 28 120 92		CD - C 2.5Y6/1 Yes			which cannot be scratched wi No Which cannot be scratched wil Poo			WC III 3b Weti	tness 3b	Augered to 60cm, assume plastic C 12-236 continues to 120cm
22 TQ 62631 81923 562632 181923 10 ≤7	0 35 35 35 50 15 50 120 70	2.5Y5/3 FD - F€10YR5/6		C - Clay 1 HR - All I C - Clay C - Clay	hard rocks or stones (i.e. those v	which cannot be scratched will No Por Por	or NON - NYes	Yes	WCII 3a Drou	ughtiness Wetness 3a	Augered to 70cm, assume C continues to 120cm. Gley and SPL from 50cm.
23 TQ 62731 82022 562732 182023 12 ≤7	0 34 34 34 120 86			C - Clay 1 HR - All I	hard rocks or stones (i.e. those v	hich cannot be scratched wi No			WC III 3b Wet	tness 3b	Augered to 70cm, assume plastic C 12-239 continues to 120cm
24 TQ 62631 82023 562632 182023 10 ≤7	0 28 28 28 120 92			C - Clay 1 HR - All I	hard rocks or stones (i.e. those v	hich cannot be scratched wi No			WC III 3b Web	tness 3b	Augered to 70cm, assume plastic C 12-24C continues to 120cm
25 TQ 62731 82123 562732 182123 11 ≤7	0 28 28 28 120 92			C - Clay 1 HR - All I C - Clay	hard rocks or stones (i.e. those v	which cannot be scratched will No	t Applic NON - Non-ca or NON - NNo	i No 1 -19 3a Yes	WC III 3b Weti	tness 3b	Augered to 60cm, assume plastic C 13-001 continues to 120cm
26 TQ 62631 82122 562632 182123 8 ≤7	0 28 28 28 50 22 50 120 70	2.5Y5/3 CP - Cc10YR5/6		C - Clay 1 HR - All I C - Clay C - Clay	hard rocks or stones (i.e. those v	hich cannot be scratched wi No Por Por	or NON - Non-ca	Yes	WC III 3b Weti	tness 3b	Augered to 70cm, assume C 13-002 continues to 120cm
END											

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky PRIS - Prismatic

PLAT - Platy NA - N/A

MASS - Massive

Subsoil Structure Condition

Not Applicable

Good

Moderate Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WCI

WC II WC III

WC IV

WC V WC VI

2 3a

3b

4

5 Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP14	C629 LTC ALCSF	214			ALCSP14
Date of Survey	Survey Type		Surveyor(s)		npany
21/02/2019			AR	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	_
Grid Reference			Postcode	Altitude	Area
TQ62738222			RM16 3LT	11	37.40000153
MAFF prov		MAFF detaile	d	Flooding	
Grade 3		None		Flood Zone 1	
					-
AAR	AT0	MDw	MDp	FCD	Climate grade
564	1485	126	123	102	1
Bedrock			Superficial depo	sits	
THAMES GROUP			None		
Soil association(s) 1			Deta	iled soil information	
Windsor/Fladbury	3		None	2	
Davids a Novada			Data Basili d		
Revision Number			Date Revised		
1			05/02/2019		

Grid ref. Alt (I	m) Slope ° Ar	spect Land use	Top Bttm	m) Matrix Thick Munsell co	Ochreous Mottles	Grey Mottles Ir Form Munsell colour	Gley Te	exture St % > 2cn	ones - type 1	Stones - type 2 % > 2cm > 6cm	Type Strength Size	Shape	STR CaCC	Mn C SF	L MBw Mi	ght Wet Bp Gd WC Gw	Limitation	Final AL 1 Limitation 2 L	imitation 3 Grade	Profile notes	Client Ref.
Q 62731 82223 562732 182223 11	£7	LEY	0 32	32 10YR4/2 88 10YR5/3		- Indiana colui		- Clay 1	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A	pplic NON	- Non-cal No - NYes Ye	0 -20	0 3a WCIII 3b	Wetness	L. Control of L.	3b	Augered to 60cm, assume plastic continues to 120.	13-003
162631 82223 562632 182223 8	<u></u>	LEY	0 26 26 120	26 10YR4/2 94 2.5Y5/3	CP - Cc10YR5/6		Yes C	- Clay 1 - Clay 0	HR - All I	nard rocks or stones (i.4	. those which cannot be scra	tched wi Not A	pplic NON NON	- Non-cal No - NYes Ye	o -2 -22 s	2 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-004
62731 82322 562732 182323 11	<u></u>	LEY		38 10YR4/2 52 10YR5/3	CD - C 10YR5/6			- Clay 2 2 - Silty clay	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A		· Vé No Ne · Vé No Yé		1 3b WCIII 3b	Wetness		3b	marginal calcareous for 3a	13-005
Q 62631 82322 562632 182323 8	<u></u>	LEY		28 10YR4/2 92 2.5Y5/3	CP - Cc10YR5/6		Yes C	- Clay 1 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A	pplic NON NON	- Non-cal No - NYes Ye	o -1 -2:	1 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-006
0 62731 82423 562732 182423 9	<u>≤7</u>	LEY	0 35 35 80	35 10YR4/2 45 7.5YR5/3	MD - N10YR5/6		Yes ZO	2 - Silty 2 2 2 - Silty clay	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A Poor	pplic NON NON	- NNO No - NNO Ye		3 3b WCIII 3b	Wetness	Droughtiness	3b		13-007
2 62631 82423 562632 182423 7	≤7	LEY		28 10YR4/2 92 2.5Y5/3	CP - C(10YR5/6			- Clay 1 - Clay 0	HR - All I	nard rocks or stones (i.a	. those which cannot be scra	tched wi Not A Poor		- Non-cal No - No Ye		1 3a WCIII 3b	Wetness		3b	Augered to 70cm, assume plastic continues to 120.	13-008
Q 62731 82522 562732 182523 9	≤7	LEY	0 22 22 50	22 10YR4/2 28			No C No C	- Clay 1 - Clay 1	HR - All I HR - All I	nard rocks or stones (i.a nard rocks or stones (i.a	. those which cannot be scra . those which cannot be scra	tched wi Not A	pplic NON Prate NON	- NNO No	o -45 -42	2 3b WCIII 3b	Wetness	Droughtiness	3b		13-009
Q 62631 82523 562632 182523 7	≤7	LEY	28 60	28 10YR4/2 32 10YR5/3 60 10YR5/3	CD - C 10YR5/6	CD - C 2.5Y6/1	Yes C	- Clay 2 - Clay 0 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A Poor Poor	NON	- Non-cal No - NNo Ye - NNo Ye	s	2 3a WCIII 3b	Wetness		3b	Augered to 70cm, assume plastic continues to 120.	13-010
0,62722 82620 562723 182621 6	≤ 7	LEY	0 25 25 50	25 10YR4/2 25				- Clay 1 - Clay 1	HR - All I HR - All I	nard rocks or stones (i.a nard rocks or stones (i.a	. those which cannot be scra those which cannot be scra	tched wi Not A tched wi Mod	pplic NON erate NON	- NNO No	o -44 -4: o	1 3b WCIII 3b	Wetness	Droughtiness	3b		13-011
Q 62622 82621 562623 182621 6	<u>≤7</u>	LEY		28 10YR4/2 92 10YR5/3	CD - C 10YR5/6		Yes C	- Clay 2 - Clay 0	HR - All I	nard rocks or stones (i.a	. those which cannot be scra	tched wi Not A Poor	pplic NON NON	- Non-cal No - NNo Ye	o -2 -22 s	2 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-012
Q 62611 82709 562612 182709 6	≤7	LEY		30 10YR3/2 90 10YR5/3			Yes C	- Clay 2 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A		- Non-cal No - NNo Ye		1 3a WCIII 3b	Wetness		3b	Augered to 60cm, assume plastic continues to 120.	13-013
Q 62631 82822 562632 182823 2	≤7	LEY		30 10YR4/2 90 10YR5/2	MP - N10YR5/8			- Clay 2 - Clay 0	HR - All I	nard rocks or stones (i.e	. those which cannot be scra	tched wi Not A		- Non-cal No - Noo Ye		1 3a WCIII 3b	Wetness		3b	Augered to 70cm, assume plastic continues to 120.	13-014
Q 62631 82923 562632 182923 2	<u>≤7</u>	LEY	0 22 22 50	22 10YR4/2 28			No C No C	- Clay 1 - Clay 1	HR - All I HR - All I	nard rocks or stones (i.4 nard rocks or stones (i.4	. those which cannot be scra	tched wi Not A	pplic NON erate NON	- NNO No	o -45 -42 o	2 3b WCIII 3b	Wetness	Droughtiness	3b		13-015
Q 62539 82924 562540 182924 1	≤7	LEY	0 25 25 50	25 10YR4/2			No C	- Clay 1	HR - All I	nard rocks or stones (i.e	. those which cannot be scra . those which cannot be scra	tched wi Not A	pplic NON	- NNo No	-44 -4:	1 3b WCIII 3b	Wetness	Droughtiness	3b		13-016

Grid ref.	Alt (m)	0 Acces	t Land use		(cm) [Ochreous Mottles		Glass	Texture	Stones - type 1 Stones - type 2 Ped		CO2 Mp C Spi Drough		Wet	Final ALC		Profile notes	Cli
NGR X Y	Alt (m) Slo	pe Aspec	t Land use				Form Munsell colour	Form Munsell colour	Gley	rexture	% > 2cm > 6cm Type % > 2cm > 6cm Type Strength Size Shape SUBS S	ork Cat	CO3 Mn C SPL MBw MBp	Gd \	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile flotes	Re
TQ 62631 83023 562632 18	3023 2 ≤7		LEY	0 10	10					C - Clay			-109 -106	4			Non-Ag		1
TQ 62531 83023 562532 18	2072 1 27		LEY	0 35	35 1	10VP4/2			Vor	C - Clay	O Not An	nolic SC	- Slig No No -26 -18	2h 1	WC III 2h	Wetness Droughtiness	3b	No Access	-
100233103023 302332 10	5025 1 2,			35 80			CD - C 10YR5/6			C - Clay	Poor		ON - NNo Yes	30	***************************************	Wethess Broughtiness	55	No recess	
TQ 62531 83122 562532 18	3123 1 ≤7		LEY	0 10	10								-126 -123	4				No Access	
									1										
									1										
									1										
									1										
									1	L						1			_
TQ 62531 83222 562532 18	3223 1 ≤7		LEY	0 10	10				1	C - Clay			-109 -106	4					
									1										
									1										
									1										
									1										
TQ 62431 83222 562432 18	3223 1 ≤7		LEY	0 38	38 1	10YR4/2			Yes	C - Clay	0 Not Ap	polic SC	- Slig No No -25 -17	3b \	WCIII 3b	Wetness Droughtiness	3b		\dashv
				38 80			CD - C 10YR5/6			C - Clay	Poor	NO	ON - NNo Yes						
TQ 62431 83323 562432 18	3323 3 ≤7				33 1					C - Clay		plic NO	ON - NNo No -27 -19	3b	WC III 3b	Wetness Droughtiness	3b		
				33 50 50 80			MD - 110YR5/6 MD - 110YR5/6			C - Clay C - Clay	Poor Poor		ON - NNo Yes ON - NNo Yes						
				30 80	30 .	101113/2	WID - FIOTRO/O		163	C - Clay	Poor	140	514 - 14140 Tes						
									1										
TQ 62426 83422 562427 18	3423 3 <7		LEY	0 20	20 1	10YR4/2		-	Yes	C - Clay	Ω Not Δο	nlic NO	ON - NNo Yes -34 -26	3h 1	WCIII 3h	Wetness Droughtiness	3h	point moved to west side of	
10 03-11 301-42/ 10				20 35			CD - C 10YR5/6			C - Clay			ON - NNo Yes	35	30	Droughtiness		drainage ditch;	
				35 55	20 1	10YR5/1	CD - C 10YR5/6		Yes	ZC - Silty	clay	NO	ON - NNo Yes						
				55 80	25	7.5YR4/1	CD - C 10YR5/6		Yes	C - Clay	Poor	NO	ON - NNo Yes						
									1										
									1										
TQ 62331 83423 562332 18	3423 5 ≤7				35 1				No	C - Clay	0 Not Ap		- Slig No No -14 -22	3a 1	WC III 3b	Wetness	3b		_
				35 90			CP - Cc10YR5/6		No	ZC - Silty	clay		ON - NNo Yes						
				90 100	10 1	10145/1	CP - Cc10YR5/6		No	ZC - Silty	clay Poor	NO	ON - NNo Yes						
									1										
									1										
									1			_							_
END				l				1	1	1		- 1	1 1	Į.		I	1	1	

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC II

WC IV

WC V

WC VI

ALC Grade

1

2 3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP15	C629 LTC ALCSP	15			ALCSP15
Date of Survey	Survey Type		Surveyor(s)		mpany
22/02/2019			RWA	Ask	xew Land and Soil
Weather		Relief		Land use and v	regetation
Dry, Sunny		Level		LEY (Ley Grass)	
0:15 (- In	Latin 1	Τ.
Grid Reference			Postcode	Altitude	Area
TQ62338352			RM14 3RE	3	75
MAFF prov		MAFF detailed	 d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
571	1494	126	124	103	1
					•
Bedrock			Superficial depos	sits	
THAMES GROUP			None		
Soil association(s) 1	:250 000		Detai	iled soil information	
Windsor/Fladbury 3			None		
- · · · · · ·	-				
Revision Number			Date Revised		
1			05/02/2019		

NGR X V	n) Slope ° A	spect Land us	se Ton P++	tm Thick	Munsell colo	Uchreous Mottles	Form Munsell colou	Gley	Texture Stones - type 1 Stones - type 2 Ped SUBS	TR CaCO3 N	In C SPL MBw MPo Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile notes	Client Ref.
TQ 62331 83522 562332 183523 3	≤7	LEY	0 40	40	5Y4/1	process perunsen colour	. Jana paransen colou	Yes	Texture Stones - type 1 Stones - type 2 Ped SUBS 4 2 cm 5 cm Type % > 2 cm 5 cm Type Strength Size Shape	plic NON - NN	o No -18 -20 3a	WC III 3b	Final ALC Umitation 1 Limitation 2 Limitation 3 Wetness	3b	1	13-025
			40 52	12	10YR5/3	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	o Yes					1
			52 70	18	2.5Y5/2 7.5YR4/2	MP - N 10YR5/6 MP - N 10YR5/6		Yes	ZC - Silty clay ZC - Silty clay Poor	NON - NN	o Yes					
			/0 90	20	7.5YR4/2	MP - N 10YR5/6		Yes	ZC - Sifty clay Poor	NON - NN	o Yes					
TQ 62231 83523 562232 183523 3	≤7	LEY	0 38	38 12	5Y4/1 10VPE/2	MP - N 10YR5/6		Yes	C - Clay 0 Not A Poor plic NON - NN	No -19 -21 3a No Yes No Yes	WC III 3b	Wetness	3b		13-026	
			50 70	20	2.5Y5/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	o Yes					
					7.5YR4/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	o Yes					
TQ 62231 83622 562232 183623 3	≤7	LEY	0 26	26	10YR5/2			No	C - Clay 4 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Not A	plic NON - NN	o No 9 -12 3a	WC III 3b	Wetness	3b		13-02
			26 70	44	10YR6/3			No	C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Mode	ate NON - NN	o No					
			70 12	0 50	10YR6/2			No	C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be scratched wi Mode	ate NON - NN	o No					
TQ 62131 83623 562132 183623 3	≤7	LEY	0 38	38	5Y4/1 10YR5/3	MP - N 10YR5/6		Yes	C - Clay 0 Not A Poor plic NON - NN	o No -19 -21 3a o Yes	WC III 3b	Wetness	3b		13-02	
					2.5Y5/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor	NON - NN	n Yes					
			70 90	20	7.5YR4/2	MP - N 10YR5/6		Yes	ZC - Silty clay Poor 2C - Silty clay Poor Poor	NON - NN NON - NN	o Yes					
TQ 62131 83722 562132 183723 3	≤7	LEY	0 30	30	2.5Y4/2		+	Yes	C - Clay 0 Not A	plic NON - NN	o No -14 -22 3a	WC II 3a	Droughtiness Wetness	3a	patchy crop;	13-03
· · · · · ·			30 40	10	2.5Y4/3			No	ZC - Silty clay Mode	ate NON - NN	o No		-		1	1
			40 45	5	2.5Y4/3	FF - Fe 10YR5/6		No	ZC - Silty clay Poor	NON - NN	o Yes					
			45 90	45	10YR5/1	MP - N 10YR5/6 MP - N 10YR5/6		Yes	Poor MAZCL - Silty clay (modium)	NON - NN	0 No -14 -22 3a 0 No 0 Yes 0 Yes 0 Yes					
			90 10	0 10	313/1	WIP - N TOTRO/O		162	MZCL - Silty clay loam (medium)	NON - NN	io i les					
TQ 62031 83723 562032 183723 4	≤7	LEY	0 10	10	·				C - Clay		-109 -107 4			Non-Ag		13-03
TQ 62025 83825 562026 183826 4	≤7	LEY					+				_	1	+	1		13-04
																15 04
TQ 61931 83822 561932 183823 4	≤7	LEY														13-04
TQ 61831 83823 561832 183823 4		LEY								+		1	1	1		13-04
14 01031 83823 501832 183823 4	5/	LEY														13-04
TQ 61831 83922 561832 183923 4	≤7	LEY										1				13-05
TQ 61731 83923 561732 183923 5	_											1	4	1		
IQ 61/31 83923 561732 183923 5	≤/	LEY														13-05
TQ 61631 83922 561632 183923 5	≤7	LEY										1		1		13-09
TO 64624 04022 F64622 404022 7		150										1		1		
TQ 61631 84023 561632 184023 5	≤7	LEY														13-06
	-7	LEY						+		+		1		+		13-06
TQ 61531 84022 561532 184023 5							1	1		1 1	1	1	i e	1	1	1

Grid ref. Depth (cr	n) Matrix Ochreous Mottles Grey N	Nottles Stones - type 1	Stones - type 2 Ped	SUBS STD COCO2 May C SDI Drought	Wet Final ALC Profile notes	Client
Point Grid ref. Alt (m) Slope ° Aspect Land use Depth (cn Top Bttm 1 Top Bttm 1 Top Bttm 1 Top Bttm 1	Thick Munsell colour Form Munsell colour Form Muns	sell colour Gley Texture % > 2cm > 6cm Type	% > 2cm > 6cm Type Strength Size Shape	SUBS STR CaCO3 Mn C SPL MBw MBp Go		Ref.
ı						
ı						
ı						
h						
15 TQ 61431 84023 561432 184023 5 ≤7 LEY						13-069
ı						
ı						
ı						
ı						
16 TQ 61332 84022 561332 184023 5 ≤7 LEY						13-070
ı						
ı						
ı						
ı						
47 TO CARDA OMOD COMOD COMOD C						45.55
17 TQ 61431 84122 561432 184123 5 ≤7 LEY						13-082
i						
ı						
ı						
ı						
18 TQ 61318 84123 561319 184123 5 ≤7 LEY						13-083
ı						
ı						
ı						
i						
19 TQ 61231 84122 561232 184123 5 ≤7 LEY						13-084
ı						
ı						
i						
i						
20 TQ 61131 84123 561132 184123 5 ≤7 LEY						13-085
i						
21 TQ 61031 84122 561032 184123 6 ≤7 LEY						13-086
ı						
ı						
22 TQ 60931 84123 560932 184123 6 ≤7 LEY						13-087
ı						
THE STATE OF THE S						
END	ļ	1 1 1		1 1 1 1		Į.

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

ONA - Granulai

SAB - Subangular Blocky AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard N/A

Calcareousness
NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP16	C629 LTC ALCS	P16			ALCSP16
Date of Survey	Survey Type		Surveyor(s)		mpany
18/03/2019			RM	Ask	kew Land and Soil
Weather		Relief		Land use and v	vegetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ59638362			RM15 6SP	24	32.29999924
•			<u>'</u>	•	•
MAFF prov		MAFF detailed	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
591	1471	123	120	105	1
Dodgo de			C	-:4	
Bedrock			Superficial depos	SITS	
Thames Group			None		
Soil association(s) 1	:250,000		Detai	iled soil information	
Fladbury 3			None	1	
Revision Number			Date Revised		
1			07/02/2019		

Grid ref.	A 51 9 Am	Depth (cm)	Matrix	Ochreous Mottles	Grey Mottles	Tout	Stones - type	1	Stones - type 2	Ped	SUBS STR Ca		C CD1 1	Drought	Wet	Final ALC		Profile notes	Client
oint NGR X Y Alt (m	,	Top Bttm Thic	k Munsell colour	Form Munsell colour	Form Munsell colour Gle	y Texture %	> 2cm > 6cm	Type %	> 2cm > 6cm Type	Strength Size Shape	SUBS STR Ca	CO3 Mn	MBw	MBp Gd	WC Gw	Limitation 1 Limitation 2 Limita	ition 3 Grade	Profile notes	Ref.
TQ 59631 83623 559632 183623 24	্র														WC III 3a	Wetness	За		13-030
TQ 59731 83723 559732 183723 23	s7	0 24 24 24 50 26 50 120 70	10YR5/3	CD - Common Distinct MP - N 2.5YR5/6	CD - Common Distinct No	MSL - Me 8 SCL - San 1 SCL - San 1)	HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	vi Moderate NO	N - Non-c	al No	-20 3a	WC III 3a	Droughtiness Wetness	3a		13-035
TQ 59631 83723 559632 183723 22	<i>\$</i> 7	0 28 28 28 50 22 50 120 70	10YR6/2	MD - Many Distinct MD - Many Distinct		HCL - Clay 8 HCL - Clay 20 HCL - Clay 20)	HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-c	al No	-19 3a	WC III 3a	Droughtiness Wetness	3a		13-036
TQ 60032 83813 560033 183814 23	≤7	0 25 25 25 54 29 54 120 66	10YR4/4	MP - 1\ 5YR5/6	No	HCL - Clay 1 C - Clay 1 C - Clay 0		HR - All har	d rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-o	al No	-4 2	WC III 3b	Wetness	3b		13-044
TQ 59931 83823 559932 183823 23	<i>≤</i> 7	0 24 24 24 50 26 50 120 70	10YR5/3	MD - N 5YR5/6	No	HCL - Clay 6 HCL - Clay 1 C - Clay 0		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-o	al No	-6 2	WC III 3b	Wetness	3b		13-045
TQ 59829 83809 559830 183809 23	<i>\$</i> 7	0 28 28 28 57 29 57 120 63	10YR4/2 10YR4/4 10YR5/3	CD - Cı SYRS/6	No No CD - Cc2.5Y5/1 Yes	HCL - Clay 5 HCL - Clay 4 C - Clay 2		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	N - Non-o	al No	-7 2	WC II 3a	Wetness	3a		13-046
TQ 59731 83822 559732 183823 23	≤7	0 30 30 30 55 25 55 120 65	2.5Y6/3	CP - Cc 7.5YR5/6 CP - Cc 7.5YR5/8		MCL - Cla 4 HCL - Cla 0 C - Clay 0		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	vi Moderate NO	ON - Non-c ON - NYes ON - NYes	No	-9 2	WC II 2	Droughtiness Wetness	2		13-047
TQ 59631 83822 559632 183823 22	<i>s</i> 7	0 35 35 35 50 15 50 120 70		CD - C: 10YR5/6 MP - N 7.5YR5/6	Ye:	MCL - Cla 1 HCL - Cla 0 C - Clay 0	0 0	HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	i Moderate NO	DN - Non-c DN - NO DN - NYes	No	-8 2	WC III 3a	Wetness	3a		13-048
TQ 60331 83923 560332 183923 14	<i>S</i> 7	0 38 38 38 120 82		CP - Ct 7.5YR5/6	CD - Cr2.5Y6/2 Ye:	C - Clay 2 C - Clay 0		HR - All har	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	ri Not Applic NO ri Poor NO	DN - Non-c DN - NYes	al No 5 Yes	-15 3a	WC III 3b	Wetness	3b		13-057
D TQ 60231 83922 560232 183923 14	\$7	0 35 35 35 120 85	10YR4/2 2.5Y5/3	CP - Ct 7.5YR5/6	CD - Cc2.5Y6/2 Ye:	C - Clay 2 C - Clay 0		HR - All har	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w	ri Not Applic NO ri Poor NO	DN - Non-c DN - NYes		-16 3a	WC III 3b	Wetness	3b		13-058
TQ 60131 83922 560132 183923 20	\$7	0 25 25 25 54 29 54 120 66	10YR4/4	MP - N 5YR5/6	No No MP - N 2.5Y5/1 Yes	C - Clay 1 C - Clay 1 C - Clay 0		HR - All har	rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w	vi Moderate	e	15	-6 2	WC III 3b	Wetness	3b		13-059
2 TQ 59831 83922 559832 183923 25	s7	25 35 10	10YR4/2 10YR4/3 2.5Y6/4 5Y6/2	CD - Cı 10YR5/6 CP - Cı 7.5YR5/6	Ye:	SCL - San 5 SCL - San 5 SCL - San 5 MSL - Me 5		HR - All ha	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	ii Moderate NO	N - NNo	No No	-15 3a	WCI 1	Droughtiness	3a		13-060
3 TQ 59731 83923 559732 183923 25	s7	0 35 35 35 40 5 40 45 5 45 120 75	10YR4/4 10YR5/4		No No	MSL - Me 1 MSL - Me 1 LMS - Loa 5 LMS - Loa 7	5	HR - All har HR - All har	rd rocks or stones (i.e. those rd rocks or stones (i.e. those	which cannot be scratched w which cannot be scratched w which cannot be scratched w which cannot be scratched w	ii Moderate NO ii Moderate NO	N - NNo	al No -48 No No No	-52 3b	WCI 1	Droughtiness	3b		13-061
4 TQ 59631 83923 559632 183923 25	≤7	0 35 35 35 50 15			No	SCL - San 1 HCL - Cla 1				which cannot be scratched w				-27 3b	WCI 1	Droughtiness	3b		13-062

Point Grid ref.	Alt (m) Slo	pe ^o Aspect Land us			Matrix	Ochreous Mottles		Glev	Texture Stones - typ		Stones - type 2		Ped	SUBS STR	CaCO3 M	In C SPI	Drou	ight	Wet WC Gw		Final ALC		Profile notes	Client
NGR X Y	300	pc	50 60	60 10	2.5Y5/3 2.5Y5/3	r Form Munsell colour CD - C: 10YR5/6 CD - C: 10YR5/6	Form Munsell colour	Yes Yes	% > 2cm > 6cn HCL - Clar 30 HCL - Clar 60 HCL - Clar 75	HR - All hard HR - All hard	rocks or stones (i.e. rocks or stones (i.e.	those which those which	rength Size Sh ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate ed wi Moderate	NON - NNO	o No		Bp Gd	WC Gw	Limitation 1	Limitation 2 Lim	nitation 3 Grade		Ref.
15 TQ 60631 84031 560632 184031	9 ≤7		25	53 28	10YR4/2 10YR4/4 10YR5/3	MP - N SYRS/6	MP - N 2.5Y5/1	No	C - Clay 1 C - Clay 1 C - Clay 0	HR - All hard	rocks or stones (i.e.	those which	ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate	NON - Nor	n-cal No		2	WC III 3b	Wetness		3b		13-071
16 TQ 60531 84022 560532 184023 1	9 ≤7		25	50 25	10YR4/2 10YR4/4 10YR5/3	MP - N 5YR5/6	MP - N 2.5Y5/1	No	C - Clay 1 C - Clay 1 C - Clay 0	HR - All hard	rocks or stones (i.e.	those which	ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate	NON - Nor	n-cal No		2	WC III 3b	Wetness		3b		13-072
17 TQ 60431 84023 560432 184023	11 ≤7		0 45	45 45 120 75	10YR4/2 2.5Y5/3	CP - Ct 7.5YR5/8		Yes	C - Clay 1 C - Clay 0	HR - All hard HR - All hard	rocks or stones (i.e. rocks or stones (i.e.	. those which	ch cannot be scratch ch cannot be scratch	ed wi Not Applic ed wi Poor	NON - Nor NON - NYe	n-cal No es Yes	0 8 -12 s	2 3a	WC II 3a	Droughtines	ss Wetness	3a		13-073
18 TQ 60331 84022 560332 184023	14 ≤7				10YR4/2 10YR5/4				C - Clay 0 C - Clay 0				ch cannot be scratch		NON - Nor NON - NN) 2 -18 s	3 3a	WC III 3b	Wetness		3b		13-074
19 TQ 60231 84022 560232 184023	14 ≤7		25	49 24	10YR4/2 10YR4/4 10YR5/3	MP - N 5YR5/6	MP - N 2.5Y5/1	No	C - Clay 1 C - Clay 1 C - Clay 0	HR - All hard	rocks or stones (i.e.	. those whic	ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate		No No No	15 -6	2	WC III 3b	Wetness		3b		13-075
20 TQ 59831 84023 559832 184023	25 ≤7		25 35	35 10 50 15	10YR3/2 10YR4/2 10YR5/2 10YR4/1	CD - C: 10YR5/6		No Yes	MSL - Me 10 5 0 SCL - San 10 SCL - San 10 SCL - San 10	HR - All hard HR - All hard	rocks or stones (i.e. rocks or stones (i.e.	those which those which	ch cannot be scratch ch cannot be scratch ch cannot be scratch ch cannot be scratch	ed wi Moderate ed wi Moderate	NON - NNO	o No o No) 3a	WCII 1	Droughtines	ss .	3a		13-076
21 TQ 60831 84122 560832 184123	7 ≤7				10YR4/2 2.5Y5/3	CP - Ct 7.5YR5/6			HCL - Clar 1 C - Clay 0				ch cannot be scratch ch cannot be scratch		NON - Nor NON - NNo		s -19	5 3a	WC III 3b	Wetness		3b		13-088
22 TQ 60731 84123 560732 184123 9	9 ≤7				10YR4/2 2.5Y5/3	CD - Cı 7.5YR5/6			C - Clay 1 C - Clay 0				ch cannot be scratch ch cannot be scratch		NON - Nor NON - NNo		3 -17 s	7 3a	WC IV 3b	Wetness		3b		13-089
23 TQ 60631 84122 560632 184123 9	9 ≤7				10YR4/2 2.5Y5/3	CD - C: 10YR5/6	CD - Cc2.5Y6/1	Yes	C - Clay 1 C - Clay 0				ch cannot be scratch		NON - Nor NON - NNo			3 3a	WC III 3b	Wetness		3b		13-090
24 TQ 60531 84123 560532 184123 5	9 ≤7				2.5Y4/2 2.5Y5/3	CP - Cx 7.5YR5/6	CD - Cc2.5Y6/1		C - Clay 1 C - Clay 1				ch cannot be scratch		NON - Nor NON - NYs			Э За	WC III 3b	Wetness		3a		13-091
END																								

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain

GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky PRIS - Prismatic

PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b 4

5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP17	C629 LTC ALCSP:	17			ALCSP17
			<u> </u>		
Date of Survey	Survey Type		Surveyor(s)		npany
18/02/2019			RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level			
Grid Reference			Postcode	Altitude	Area
TQ59538372			RM15 6SP	22	20
1033330372			111111111111111111111111111111111111111	122	20
MAFF prov		MAFF detailed	1	Flooding	
Grade 3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
591	1473	123	120	105	1
<u> </u>			La constitution		
Bedrock			Superficial depo	sits	
Thames Group			None		
Soil association(s) 1	:250,000		Deta	iled soil information	
Shabbington			None		
Revision Number			Date Revised		
1			07/02/2019		

int Grid ref. Alt (Dο	oth (cm)	Matrix	Ochreous Mottles	Grey Mottles		Stone	s - type 1	Stones - type 2	Ped				Drought	Wet	Final ALC			Client
NGR X Y	,,	and use Top I	8ttm Thi	ck Munsell colour	r Form Munsell colour	Form Munsell colour		% > 2cm	> 6cm Tv	pe % > 2cm > 6cm Type	Strength Size	SUBS ST	R CaCO3	Mn C S	MBw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitatio	in 3 Grade	Profile notes	Ref.
TQ 59532 83723 559532 183723 22	≤7		25	10YR4/2	CD - C/5YR5/6	CD - C(2.5YR6/2		HCL - Clar 12 6	2 HF	- All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Not App	ic NON - N	ion-cal N	o 8 -12 3a	WC II 3a	Droughtiness Wetness	3a		13-037
		25 70	20 50	7.5YR5/6 7.5YR5/3	CD - C/5YR5/6 CD - C/5YR5/6	CD - C(2.5YR6/2 CD - C(2.5YR6/2		C - Clay 6 C - Clay 6	HH	t - All hard rocks or stones (i.e. tho t - All hard rocks or stones (i.e. tho	se which cannot be scrate	hed wil Modera: hed wil Modera:	e NON - N	ion-cal N	0					
		,,,	.20 30	7.511(5) 5	CD C/3/1/3/0	CD C(2.51NO)2	103	c city o			Je Willer cullifor be seruce	nea wi moacia	L IIIOIT II							
TQ 59432 83723 559432 183723 22	<7	0 3	15 25	10YR4/2			Nο	HCL - Clar 8 6	2 HF	t - All hard rocks or stones (i.e. the	se which cannot he scrate	hed wit Not Ann	ic NON - N	Ion-cal N	n 9 -10 3a	WC II 3a	Droughtiness Wetness	3a		13-038
		25 (5 40	7.5YR5/6	CD - C: 5YR5/6	CD - Cc2.5YR6/2	Yes	C - Clay 6	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	Ion-cal N	0					1-0-000
				7.5YR5/3	CD - C: 5YR5/6	CD - Cc2.5YR6/2		C - Clay 6		t - All hard rocks or stones (i.e. the										
TQ 59341 83723 559341 183723 21	≤7	0 2	24 24	10YR4/2				HCL - Clay6 2	1 HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal N	o 11 -9 2	WC III 3b	Wetness	3b		13-039
				2.5YR5/4 2.5YR6/3	MD - Many Distinct	MD - Many Distinct MD - Many Distinct		C - Clay 2	HF	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	lon-cal N	0					
		40	20 80	2.5YRb/3	MD - Many Distinct	MD - Many Distinct	res	C - Clay 6	HH	- All nard rocks or stones (i.e. the	se which cannot be scrato	ned wil Modera	e NON - N	ion-cai n	0					
TQ 59232 83723 559232 183723 21	≤7			2.5YR5/2 10YR5/6	MD - 1 5YR5/6	MD - N 2.5YR6/2		MCL - Cla 2 C - Clay 1	HF	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Not App	id NON - N	ion-cal N	0 16 -5 2	WC III 3a	Wetness	3a		13-040
		50	20 70	10YR5/3	MD - Many Distinct	MD - Many Distinct	Yes	C - Clay 1	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	P NON - N	ion-cal N	n					
				,.																
TQ 59532 83823 559532 183823 22	≤7	0 :	16 36	10YR4/2		+	+	HCL - Clay 2	HE	t - All hard rocks or stones (i.e. tho	se which cannot be scrate	hed wi Not Ann	ic NON - N	lon-cal N	o 7 -13 Ra	WC III 3b	Wetness	3b		13-049
		36	0 34	2.5Y5/3	CP - Cc 7.5YR5/6		Yes	C - Clay 2	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	Yes Y	es					1
		70 :	20 50	2.5Y6/3	CP - Ct 7.5YR5/6		Yes	C - Clay 2	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor		Yes Y						
TQ 59432 83823 559432 183823 22	≤7		14 34					HCL - Clay 1	HF	- All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal N	o 4 -13 3a	WC III 3b	Wetness	3b		13-05
		34 8	80 46	2.5Y6/3	MP - N 7.5YR5/6		Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	Yes Y	es					
		80 :	20 40	2.5Y6/2	CP - Ct 7.5YR4/6		Yes	C - Clay 10	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	Yes Y	es					
TQ 59332 83823 559332 183823 21	≤7			10YR4/2	CD - C: 7.5YR5/6			C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Not App	ic NON - N	ion-cal N	o 4 -16 3a	WC III 3b	Wetness	3b		13-051
		35	20 85	2.5Y6/3	CD - Ci 7.5YR5/6		Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wil Poor	NON - N	Yes Y	es					
TQ 59232 83823 559232 183823 21	≤7			10YR4/2 2.5Y6/3	MP - N 7.5YR5/6			HCL - Clay 1 C - Clay 2	HF	t - All hard rocks or stones (i.e. tho t - All hard rocks or stones (i.e. tho	se which cannot be scrate	hed wi Not App	NON - N	lon-cal N	o 7 -13 3a	WC III 3b	Wetness	3ь		13-052
		35	20 85	2.516/3	MP - N 7.51K5/6		res	C - Clay 2	HH	- All nard rocks or stones (i.e. the	se which cannot be scrato	nea wii Poor	NON - N	res r	es					
TO 59132 83823 559132 183823 20	-7	0 -	16 76	2.5YR4/2			No	C - Clav 2	uc	t - All hard rocks or stones (i.e. the	so which cannot be scrate	had wit Not Ann	ic NON - N	lon cal N	n 14 -7 3	WC III 2b	Wetness	2h		13-053
10 39132 83823 339132 183823 20	2/			10YR5/3	MD - 1 5YR5/6	MD - N 2.5YR6/2		C - Clay 1	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	ion-cal N	0 14 -7 2	WC III 30	wethess	30		13-03.
				10YR5/3	MD - Many Distinct	MD - Many Distinct	Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Modera	e NON - N	Ion-cal N	0					
TQ 59532 83923 559532 183923 24	≤7	0 :	16 36	10YR4/2				MCL - Cla 3		t - All hard rocks or stones (i.e. the						WC III 3a	Wetness	3a		13-063
		36 8	0 44	2.5Y5/3	MP - N 7.5YR5/6		Yes	C - Clay 2	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Poor	NON - N	Ion-cal Y	es					
		80 :	20 40	2.5Y6/3	MP - N 7.5YR5/6		Yes	MSL - Me 5	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Modera	e NON - N	lon-cal N	0					
TQ 59432 83923 559432 183923 23	≤7			10YR4/2				HCL - Clay5	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal Y	es 1 -17 3a	WC III 3b	Wetness	3b		13-06
		38 :	20 82	2.5Y5/3	CP - Ct 7.5YR5/6		Yes	C - Clay 10	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Poor	NON - N	lon-cal Y	es					
						1														_
TQ 59332 83923 559332 183923 23	≤7	0 2 28 5		10YR4/2 2.5Y5/3	CP - Ct 10YR5/6	CD - C(2.5Y6/1		HCL - Clay 3 C - Clay 5	HF	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrato	ned wi Not App	ICNON - N	lon-cal N lon-cal Y	o 0 -19 3a	WC III 3b	Wetness	3b		13-06
				2.5Y5/3 2.5Y5/1	CP - Cc 10YR5/6 MP - N 7.5TR5/6	CD - C(2.5Y6/1		C - Clay 5 C - Clay 5	HH	t - All hard rocks or stones (i.e. the t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wit Poor		ion-cal Y						
		-	5				1.23	, -	***	or stories p.e. tile										
TO 59232 83923 559232 183923 23	- 7	0 -	7 27	10YR4/2		1	+	HCL - Clay3	110	t - All hard rocks or stones (i.e. the	so which cannot be seents	had wit Not *	ic NON A	lon cal N	n 5 .12 ?n	WC III 3b	Wetness	3h		13-06
. ~ >32.32 03.323 33.322 103.323 23	21			2.5Y5/2	MP - N 7.5YR5/6		Yes	C - Clay 1	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Poor	NON - N	ion-cal Y	es -15 38	•VC III 30	**Curess	30		13-06
		75 9	0 15	2.5Y5/2	MP - N 7.5YR5/8		Yes	SCL - San 10	HE	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e NON - N	Ion-cal N	0					
		90 :	20 30					SCL - San 50	HF	t - All hard rocks or stones (i.e. the	se which cannot be scrate	hed wi Modera	e	N	0					
		1																		
TQ 59032 83823 559032 183823 20	≤7			10YR4/2 5YR4/6	MD - Many Distinct		No	SCL - San 12 6	2 HF	t - All hard rocks or stones (i.e. the	se which cannot be scrato	hed wi Not App	ic NON - N	lon-cal N	o -32 -50 3b	WC II 2	Droughtiness	3b		14-001

Daint	(Grid ref.	0.14	(m) Slope	Aspect Land us		Depth (cm)		Matrix	Ochreous Mottles	Grey Mottl		Texture	Stones - type 1	Stones - type 2	Ped	CURS STR. C+CO2	Man C	Drought	Wet	Final ALC		Profile notes	Client
POIIIL	NGR	X Y	All	(m) Slope	Aspect Land us	Top	Bttm Ti	hick M	Iunsell colour	Form Munsell colour	Form Munsell of	colour	rexture	e Stones - type 1 % > 2cm > 6cm Type	% > 2cm > 6cm Type	Strength Size S	hape SUBS STR CACUS	IVIII C	MBw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3	Grade	Profile flotes	Ref.
						50	120 70	0 51	YR4/6	MD - Many Distinct	MD - Many Disti	inct Yes	MS - M	/lec1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	lon-ca	alNo		, , , , , , , , , , , , , , , , , , ,			
										•					I Total			l						
10	TO 59132 839	22 550122 1	02022 22	<7		0	25 2	- 1/	OVD4/2			Ma	MSL - N	AAAF UD AU	hard rocks or stones (i.e. those		and will block Appella NON N		Ma 12 0 2	MC III 2	Droughtiness Wetness	2		14-002
15	10 39132 633	23 339132 1	00920 20	2/		25	52 2			CD . C	co				hard rocks or stones (i.e. those					WCIII 2	broughtness wetness	2		14-002
										CD - Common Distinct			C - Clay											
						52	120 6	8 7.	.5YR5/3	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	y 1 HR-All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
16	TQ 59032 839	23 559032 1	83923 23	≤7		0	25 2	5 10	0YR4/2			No	MSL - N	Me5 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Not Applic NON - N	No	No 13 -8 2	WC III 2	Droughtiness Wetness	2		14-003
						25	52 2	7 7/	/5YR5/6	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	y 1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
						52	120 6	8 7.	.5YR5/3	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	v 1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
									, .				,	, -	1	1								
																								4
17	TQ 58932 839	23 558932 1	83923 23	≤7		0	25 2						MSL - N		hard rocks or stones (i.e. those					WCI 2	Droughtiness Wetness	2	3a drought?	14-004
							52 2			CD - Common Distinct					hard rocks or stones (i.e. those									
						52	120 6	8 7.	.5YR5/3	CD - Common Distinct	CD - Common D	istinct Yes	C - Clay	y 1 HR - All	hard rocks or stones (i.e. those	which cannot be scratc	ned wi Moderate NON - N	Yes	No					
18	TQ 59032 840	123 559032 1	84023 23	<7																				14-007
10	14 33032 040	25 555052 1	04025 25																					14 007
															I									
															I									
															1									1
	END					1									1			_						

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b

4 5

Non-Ag

Gley

None Gley

Project Number	Project Name				Parcel
ALCSP18	C629 LTC ALCSF	P18			ALCSP18
Date of Survey	Survey Type		Surveyor(s)		npany
19/02/2019			RM	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level			
<u> </u>			<u> </u>	1	T.
Grid Reference			Postcode	Altitude	Area
TQ58938402			RM15 5EE	23	20.79999924
MAFF prov		MAFF detailed	d	Flooding	
Grade 1/3		None		Flood Zone 1	
AAR	АТО	MDw	MDp	FCD	Climate grade
591	1472	123	120	105	1
			T		
Bedrock			Superficial depos	sits	
Thames Group			None		
Soil association(s) 1	L:250,000		Detai	iled soil information	
Shabbington	,		None		
Revision Number			Date Revised		
1			07/02/2019		

nt Grid ref. Alt (Depth (cm)	Matrix Ochreous Mottles	Grey Mottles	1 1	Stones - type 1	Stones - type 2	Ped			Drought Drought	Wet		Final ALC		Client
	m) Slope ^o Aspect Land use	Top Bttm Thick	ck Munsell colour Form Munsell colour	Form Munsell colour Gley	Texture %	> 2cm > 6cm Type	% > 2cm > 6cm Type Il hard rocks or stones (i.e. those	Strength Size Shape	SUBS STR CaCO	3 Mn C	SPL MBw MBp G	d WC Gw	Limitation 1 Limita	tion 2 Limitation 3 Grade		Ref.
TQ 58932 84023 558932 184023 23	≤7	0 30 30	10YR4/2		SCL - San 8	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Not Applic NON	- Non-cal	No -18 -34 3	WCI 1	Droughtiness	3b		14-008
		30 45 15 45 120 75	10YR4/4	No	HCL - Clay30 HCL - Clay50	HR - A	Il hard rocks or stones (i.e. those Il hard rocks or stones (i.e. those	which cannot be scratched w	ii Moderate NON	- NNo	No					
		45 120 /5			HCL - Clay50	HK - A	II nard rocks or stones (i.e. those	which cannot be scratched w	nivioderate		NO					
TO 58832 84023 558832 184023 21																ļ
TQ 58832 84023 558832 184023 21	≤/	0 30 30 30 45 15	10YR4/2 10YP4/4	No	MSL - Me 20 MSL - Me 20	12 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ii Not Applid NON	- Non-cal	No -19 -40 31	WCI 1	Droughtiness	3b		14-009
		45 120 75		INO	MSL - Me 50		Il hard rocks or stones (i.e. those			- 11140	No					
							1									
TQ 58732 84023 558732 184023 22		0 35 35	10YR4/2		MSL - Me 25	16 110 4	Il hard rocks or stones (i.e. those	.hish soonat he seestahed	- Net Application	Non sol	No. 6 20 2	WCII 1	Droughtiness	20		14-010
1Q 38/32 84023 338/32 184023 22	2/	35 40 5		No	SCL - San 10	10 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No 6 -29 3	a WCII 1	Drougntmess	34		14-010
		40 80 40	10YR6/4 MP - N 7.5YR5/6		C - Clay 2	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ri Poor NON		No					
		80 120 40	10YR6/4 MP - N 7.5YR5/6	Yes	MSL - Me1	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No					
TO 58632 84023 558632 184023 22	≤ 7	0 30 30	10YR4/2		MSL - Me 12	6 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Not Applic NON	- Non-cal	No 11 -20 3	WCI 1	Droughtiness	3a	+	14-011
		30 80 50	10YR4/5	No	MSL - Me 10	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No			-		
		80 120 40	10YR4/6	No	SC - Sand 2	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ri Poor NON	- NNo	No					
					1 1											
					1 1											
					1 1											
TQ 58832 84123 558832 184123 24	≤7	0 24 24		No	SCL - San 6		iravel with non-porous (hard) stor		Not Applic NON	- Non-cal	No 10 -21 3	WCI 1	Droughtiness	3a	_	14-015
		24 35 11			SCL - San 15		iravel with non-porous (hard) stor		Moderate NON	- Non-cal	No					
		35 120 85	7.5YR5/6	No	SCL - San 15	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
					1 1											
TQ 58732 84123 558732 184123 23	≤7	0 24 24			MSL - Me 14	8 6 GH - 0	iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No 7 -24 3	WCI 1	Droughtiness	3a	+	14-016
		24 35 11	7.5YR5/6	No	SCL - San 15	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		35 120 85	7.5YR5/6	No	SCL - San 15	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
					1 1											
TQ 58632 84123 558632 184123 23	≤7	0 22 22	-		MSL - Me 20		iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No -19 -41 3	WCI 1	Droughtiness	3b	+	14-017
		22 40 18			MSL - Me 20		iravel with non-porous (hard) stor		Moderate NON	- Non-cal	No		-			
		40 120 80	7.5YR5/6	No	MSL - Me50	GH - 0	ravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
TQ 58532 84123 558532 184123 22	≤7	0 35 35			MSL - Me 3	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Not Applic NON	- Non-cal	No 28 -14 3a	WCI 1	Droughtiness	3a	+	14-018
		35 60 25	7.5YR4/5	No	SCL - San 3	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No					
		60 70 10	7.5YR5/5	No	SCL - San 20	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	No					
		70 120 50	7.5YR5/6	No	MSL - Me3	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ii Moderate NON	- NNo	No					
					1 1											
TQ 58832 84223 558832 184223 24	≤7														-	14-024
					1 1											
					1 1											
					1 1											
TQ 58732 84223 558732 184223 23	≤7		10YR4/2		SCL - San 8		iravel with non-porous (hard) stor				No 12 -9 2	WC III 3a	Wetness	3a		14-025
		25 50 25	7.5YR5/6	No	C - Clay 1	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		50 120 70	7.5YR5/3	No	C - Clay 1	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					1
					1 1											1
					1 1											
					1 1											
TQ 58632 84223 558632 184223 23	£7	0 25 25	10YR4/2	No	FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No -15 -57 4	WCI 1	Droughtiness	4	+	14-026
		25 35 10	10YR5/2	No	FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No			[*		
		35 65 30	10YR6/4		FS - Fine 0	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		65 120 55	7.5YR6/6	No	SCL - San 0	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
TQ 58532 84223 558532 184223 22	≤7	0 22 22	10YR4/2		FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Not Applic NON	- Non-cal	No -11 -53 3i	WCI 1	Droughtiness	3b	_	14-027
		22 35 13	10YR5/2	No	FS - Fine 4	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
		35 65 30	10YR6/4		FS - Fine 0		iravel with non-porous (hard) stor		Moderate NON	- Non-cal	No					
		65 120 55	7.5YR6/6	No	SCL - San 0	GH - 0	iravel with non-porous (hard) stor	es	Moderate NON	- Non-cal	No					
					1 1											
					1 1											
	-2	0 35 35	10YR4/2		MSL - Me 20	11 HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	ri Not Applic N∩N	- Non-cal	No 14 -16 3:	WCIII 1	Droughtiness	3a	+	14-032
TO 58732 84323 558732 184323 25	2/	25 70 25	10YR5/3 MP - N 7.5YR5/6	Yes	C - Clay 1	HR - A	Il hard rocks or stones (i.e. those	which cannot be scratched w	i Moderate NON	- NNo	Yes			50		552
TQ 58732 84323 558732 184323 25	5/				1 7 1	UD A	Il hard rocks or stones (i.e. those	which cannot be ceratched w	datadamin NON	Jan.	1		1		1	
TQ 58732 84323 558732 184323 25	2/	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	nn-A	il liard rocks or stories (i.e. those	willen carmot be scrattiled w	INON STATE INON	- IVINO	No				1	
TQ 58732 84323 558732 184323 25	21	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	nr-A	in hard rocks or stones (i.e. those	which callifor be scratched w	n woderate ivon	- INNO	No					
TQ 58732 84323 558732 184323 25	5/	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	пк- <i>н</i>	irriard rocks or stories (i.e. triose	which cannot be scratched w	niwoderate NON	- NNO	No					
TQ 58732 84323 558732 184323 25	21	70 120 50	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1	nk - <i>p</i>	in naturous or stones (i.e. those	which cannot be scratched w	il Moderate NON	- NNO	No					
TQ 58732 84323 558732 184323 25 TQ 58632 84323 558632 184323 25		70 120 50 0 30 30	10YR6/3 MP - N 7.5YR5/8	Yes	SCL - San 1		Il hard rocks or stones (i.e. those				No 21 -15 3:	a WCI 1	Droughtiness	3a		14-033

Point Grid ref. Alt (m) Slope Aspect	Land use Depth (cm) Matrix Ochreous Mottles Grey Mo		Ped SUBS STR CaCO3 Mn C SPL Drought Wet	Final ALC	Profile notes Client
NGR X Y ALL (III) Slope Aspect	Top Bttm Thick Munsell colour Form Munsell colour Form Munsel	colour ` % > 2cm > 6cm Type % > 2cm > 6cm Type Strength	Size Snape	Limitation 1 Limitation 2 Limitation 3 Grade	Ref.
	45 70 25 10YR5/3 CP - Cc 7.5YR5/6	Yes SC - Sand 1 HR - All hard rocks or stones (i.e. those which cannot be			
	70 120 50 7.5YR5/6	No SCL - San 1 HR - All hard rocks or stones (i.e. those which cannot be	e scratched wi Moderate NON - NO No		
L5 TQ 58532 84323 558532 184323 23 ≤7	0 34 34 10YR4/2	MSL - Me 1 HR - All hard rocks or stones (i.e. those which cannot be	pe scratched wi Not Applic NON - Non-cal No 30 -9 2 WC I 1	Droughtiness 2	14-03
	34 70 36 10YR4/4	No MSL - Me0 HR - All hard rocks or stones (i.e. those which cannot be	ue scratched wir Moderate NON - NNo No		
	70 120 50 7.5YR5/6	Yes SCL - San 0 HR - All hard rocks or stones (i.e. those which cannot be	ue scratched wir Moderate NON - NNo No		
6 TQ 58432 84323 558432 184323 21 ≤7	0 34 34 10YR4/2	MSL - Me 2 HR - All hard rocks or stones (i.e. those which cannot b	pe scratched wi Not Applic NON - Non-cal No 13 -10 3a WC II 1	Droughtiness 3a	14-03
	34 70 36 10YR4/4	No MSL - Me2 HR - All hard rocks or stones (i.e. those which cannot be	ue scratched wi Moderate NON - NNo No	_	
	70 120 50 10YR6/4 CD - C: 10YR5/6	Yes C - Clay 2 HR - All hard rocks or stones (i.e. those which cannot be			
17 TO 58632 84423 558632 184423 25 ≤7	0 24 24 7.5YR4/2	No MSL - Me8 4 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No 14 -19 3a WC III 2	Droughtiness 3a	14-04
17 14 30032 01123 330032 101123 23	24 50 26 7.5YR5/2	No MSL - Me 10 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	Droughtiness 3	1404
	50 120 70 7.5YR5/3	No SCL - San 10 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
	30 120 70 7.31K3/3	No See - Sail 10 Gill - Graver with non-porous (nard) stories	Woderate Wow - Worl-Calino		
8 TO 58532 84423 558532 184423 23 ≤7	0 22 22 10YR4/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -55 -73 4 WC I 1	Droughtiness 4	14-04
10 10 30332 04423 330332 104423 23	22 35 13 10YR5/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No	Di dagitaness	1404
	35 50 15 10YR6/4	No FS - Fine 50 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
	50 120 70 7.5YR6/6	No SCL - San 50 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
	30 120 70 7.51K0/0	No Scc - Sali So Gil - Graver with non-porous (nard) stones	Widdelate WOW - Wolf-Call NO		
19 TO 58432 84423 558432 184423 21 ≤7	0 22 22 100/04/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Not Applic NON - Non-cal No -53 -74 4 WC I 1	Droughtiness 4	
19 TQ 58432 84423 558432 184423 21 ≤7	0 22 22 10YR4/2 22 35 13 10YR5/2	No FS - Fine 4 GH - Gravel with non-porous (hard) stones No FS - Fine 4 GH - Gravel with non-porous (hard) stones	Not Applid NON - Non-cal No -53 -74 4 WC I 1 Moderate NON - Non-cal No	prougntiness 4	14-04
			Moderate NON - Non-cal No Moderate NON - Non-cal No		
	35 65 30 10YR6/4	No FS - Fine 50 GH - Gravel with non-porous (hard) stones			
	65 120 55 7.5YR6/6	No SCL - San 50 GH - Gravel with non-porous (hard) stones	Moderate NON - Non-cal No		
END					

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic PLAT - Platy

MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Glev

None

Gley N/A

Project Number	Project Name				Parcel
19	C629 LTC ALCSP	19			19
Date of Survey	Survey Type		Surveyor(s)	Cor	mpany
25/03/2019			RA	Ask	ew Land and Soil
Weather		Relief		Land use and v	egetation
Dry, Sunny		Level		LEY (Ley Grass)	
Grid Reference			Postcode	Altitude	Area
TQ58438412			RM15 5SD	20	12.10000038
MAFF prov		MAFF detailed	b	Flooding	
Grade 3		None		Flood Zone 1	
		<u> </u>		<u> </u>	
AAR	AT0	MDw	MDp	FCD	Climate grade
588	1476	123	120	105	1
Bedrock			C	-: L o	
			Superficial depos	SITS	
Thames Group			None		
Soil association(s) 1	:250.000		Detai	led soil information	
Shabbingdon			None		
Revision Number			Date Revised		
1			15/03/2019		

Company Comp	Grid ref.	Depth (cm) Matrix Ochreous Mottles Grey Mottles	Class Teachure Stones - type 1 Stones - type 2	Ped SUBSITE COCO No. C. COL Drought Wet	Final ALC Client
Company Comp	NGR X Y Alt (m) Slope Aspect Land u	Top Bttm Thick Munsell colour Form Munsell colour Form Munsell colour	Gley Texture % > 2cm > 6cm Type % > 2cm > 6cm Type Str	rength Size Shape SUBS STR CaCO3 Mn C SPL MBw MBp Gd WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade Profile notes Ref.
2	I TQ 58432 84123 558432 184123 20 ≤7			Not Applid NON - NNO NO 11 -10 3a WC III 3a	Droughtiness Wetness 3a 14-019
System S			Yes SCL - San 1 GH - Gravel with non-porous (hard) stones	Moderate NON - No No	
1		50 120 /0 /.5YR5/3 MD - Many Distinct	res C - Clay 1 GH - Gravel with non-porous (hard) stones	Moderate NON - NYes No	
1					
1					
1					
Part Part	TQ 58419 84221 558419 184221 20 ≤7		MSL - Me5 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Not Applic NON - Non-cal No 14 -10 3a WC I 1	Droughtiness 3a 14-02
## 15182-9612-9612-9612-9612-9612-9612-9612-961					
10 10 10 10 10 10 10 10		60 120 60 10YR4/6	No C - Clay U HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wil Moderate NON - Non-cal No	
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10	TQ 58332 84223 558332 184223 20 ≤7			Not Applic NON - No No 11 -10 3a WC III 3a	Droughtiness Wetness 3a 14-02
10,000 1		25 50 25 7.5YR5/6 CD - Common Distinct	Yes SCL - San 1 GH - Gravel with non-porous (hard) stones	Moderate NON - NNo No	
12 22 23 23 23 23 23 23		50 120 /0 /.5YR5/3 MD - Many Distinct	Yes C - Clay 1 GH - Gravel with non-porous (hard) stones	Moderate NUN - NYes No	
12 22 23 23 23 23 23 23					
12 22 23 23 23 23 23 23					
12 22 23 23 23 23 23 23					
Company Section Sect	TQ 58332 84323 558332 184323 21 ≤7	0 35 35 10YR4/2	SCL - San 5 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Not Applic NON - Non-cal No 0 -19 3a WC III 3a	Droughtiness Wetness 3a 14-03
10 10 10 10 10 10 10 10					
10,000 1		70 120 50	C - Clay 5 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wir Poor	
10,000 1					
10,000 1					
10,000 1					
10 10 10 10 10 10 10 10	TQ 58332 84423 558332 184423 21 ≤7		MCL - Cla 12 6 HR - All hard rocks or stones (i.e. those whic	ch cannot be scratched wi Not Applic NON - Non-ca No 24 -10 2 WC I 1	Droughtiness 2 14-04-
10.3853.8403.55852.38403.25 2 2 2 50 May 2 2 50 May 2 3 50 May 2 5		30 75 45 10YR4/3	No MCL - Cla 3 HR - All hard rocks or stones (i.e. those whic	ch cannot be scratched wi Moderate NON - NO No	
10 10 10 10 10 10 10 10		75 120 45 10YR4/6	No MCL - Cla 2 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Moderate NON - NO No	
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10	TO 58632 84523 558632 184523 25 <7	0 22 22 10YR4/2	No FSI - Fine 10 HR - All hard rocks or stones (i.e. those which	th cannot be scratched wit Not Applic NON - Non-cal No. 42 -6 2 WC III 2	Droughtiness Wetness 2 14-04:
Record Process Proce			No SCL - San 15 HR - All hard rocks or stones (i.e. those whic	th cannot be scratched wil Good NON - Non-cal No	
10 10 10 10 10 10 10 10		48 120 72 10YR4/1 MD - Many Distinct		ch cannot be scratched wil Good NON - Non-cal No	
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10					
10 10 10 10 10 10 10 10	7 TO 58532 84523 558532 184523 23 <7	0 25 25 10YR4/2	No. FSI - Fine 10 HR - All hard rocks or stones (i.e. those which	th cannot be scratched wit Not Applic NON - Non-cal No. 42 -6 2 MC III 2	Droughtiness Wetness 2 14-050
Fig. 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 20 70 7		25 50 25 10YR4/1	No SCL - San 15 HR - All hard rocks or stones (i.e. those which	th cannot be scratched wil Good NON - Non-cal No	14-030
TO 5842 8622 55842 18623 21 27			Yes SCL - San 15 HR - All hard rocks or stones (i.e. those which	ch cannot be scratched wi Good NON - Non-cal No	
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2					
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2					
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2					
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2	TO COADO OACOD CCOADO 10ACOD DA -7	0 26 26 10VPA/2	No ESI Sing 10 6 2 GU Consolicità non parece // Consolicità	Not Applie NON . No. 14 40 3 WG W 3	Droughtiness Wetness 2 14-05:
So 100 70 75/185/3 MO - Many Distinct Yes C - Clay 1 GH - Gravel with non-porous (fund) stones Moderate NON - New No 11 -10 2 WC II 2 Droughtiness Wetness 2 15/185/2	14 20424 04523 558432 184523 21 5/			Moderate NON - NNo No No 11 -10 2 WC III 2	Drougnaness wearess 2 14-05:
TQ.58142 96523 558142 184523 21 57				Moderate NON - NYes No	
25 48 23 7.5/18/5 7.5/18/5 7.5/18/5 7.5/18/5 MD - Many Distinct Ves C. Clay 1 MD - Many Distinc					
25 48 23 7.5/18/5 7.5/18/5 7.5/18/5 7.5/18/5 MD - Many Distinct Ves C. Clay 1 MD - Many Distinc					
25 48 23 7.5/18/5 7.5/18/5 7.5/18/5 7.5/18/5 MD - Many Distinct Ves C. Clay 1 MD - Many Distinc					
25 48 23 7.5/18/5 7.5/18/5 7.5/18/5 7.5/18/5 MD - Many Distinct Ves C. Clay 1 MD - Many Distinc	TO 50242 04522 550242 404522 21	0 25 25 40004/2	N. 55 5 40 5 2 5 1 1 1 1 5 1	N. A. J. NON AV. V. V. V. V.	Davids with the second
48 120 72 75/85/3 MD - Many Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - NVes No	1Q 58342 84523 558342 184523 21 S/		NO IFSL - FIRE 10 6 2 GH - Gravel with non-porous (hard) stones	Not Appliq NON - NNO NO 11 -10 2 WC III 2	Droughtiness Wetness 2 14-05
TQ.58529 84610 558629 184610 25 ≤7 0 24 24 107R4/2 24 50 25 757R5/6 MD - Many Distinct CD - Common Distinct TQ.58529 84623 558422 184623 24 ≤7 0 25 25 107R4/2 25 50 25 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 1 2 0 2 2 2 107R4/2 25 50 25 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 4 24 107R4/2 25 50 25 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 5 25 107R4/2 25 50 25 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84620 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84620 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distinct TQ.58629 84610 558629 184610 25 ≤7 0 0 2 6 7.57R5/6 MD - Many Distinct CD - Common Distin					
TQ 58529 84610 558529 184610 24 \$7		/2 /.Srio/S into-many distinct	STI - Graver with mon-porous (flatu) stories	1100	
TQ 58529 84610 558529 184610 24 \$7					
TQ 58529 84610 558529 184610 24 \$7					
TQ 58529 84610 558529 184610 24 \$7					
24 50 26 7.5/RS/6 MD - Many Distinct SD 120 70 7.5/RS/3 MD - Many Distinct CD - Common Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - No No No No No No No No No No No No No	TQ 58629 84610 558629 184610 25 ≤7				14-05
24 50 26 7.5/RS/6 MD - Many Distinct SD 120 70 7.5/RS/3 MD - Many Distinct CD - Common Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - No No No No No No No No No No No No No					
24 50 26 7.5/RS/6 MD - Many Distinct SD 120 70 7.5/RS/3 MD - Many Distinct CD - Common Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - No No No No No No No No No No No No No					
24 50 26 7.5/RS/6 MD - Many Distinct SD 120 70 7.5/RS/3 MD - Many Distinct CD - Common Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - No No No No No No No No No No No No No					
24 50 26 7.5/RS/6 MD - Many Distinct SD 120 70 7.5/RS/3 MD - Many Distinct CD - Common Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - No No No No No No No No No No No No No					
24 50 26 7.5/RS/6 MD - Many Distinct SD 120 70 7.5/RS/3 MD - Many Distinct CD - Common Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - No No No No No No No No No No No No No					
50 120 70 7.5YRS/3 MD - Many Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - NVes No TQ 58432 84623 558432 184623 24 ≤7 0 25 10YR4/2	TQ 58529 84610 558529 184610 24 ≤7				Droughtiness Wetness 2 14-05
TQ 58432 84623 558432 184623 24 ≤7 0 25 25 10YR4/2 25 50 25 7.5YR5/6 MD - Many Distinct CD - Common Distinct CD - CD - CD - CD - CD - CD - CD - CD					
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50 120 70 7.5YR5/3 MD - Many Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - NYes No					
50 120 70 7.5YR5/3 MD - Many Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - NYes No					
50 120 70 7.5YR5/3 MD - Many Distinct CD - Common Distinct Ves C - Clay 1 GH - Gravel with non-porous (hard) stones Moderate NON - NYes No	2 TQ 58432 84623 558432 184623 24 ≤7	0 25 25 10YR4/2	No FSL - Fine 1 GH - Gravel with non-porous (hard) stones	Not Applic NON - No No 17 -4 2 WC III 3a	Wetness 3a 14-05
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END END					
	END				+ + + + + + + + + + + + + + + + + + + +
	LIND	1		1 1 1 1	

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

3a

3b

4 5

Non-Ag

Glev

None Gley

Project Number	Project Name				Parcel
20	C629 LTC ALCSP	20			20
Date of Survey	Survey Type		Surveyor(s)		npany
25/03/2019			RA	Aske	ew Land and Soil
Weather		Relief		Land use and ve	agetation
Dry, Sunny		Level		LEY (Ley Grass)	getation
		•		•	
Grid Reference			Postcode	Altitude	Area
TQ58238462			RM14 2TZ	22	33.90000153
MAFF prov		MAFF detailed	d	Flooding	
Grade 3		None		Flood Zone 1	
AAR	AT0	MDw	MDp	FCD	Climate grade
794	1431	92	81	188	1
Bedrock			Superficial depo	sits	
THAMES GROUP			None		
Soil association(s) 1	:250,000		Deta	iled soil information	
Shabbington/Winds	sor		None	2	
Revision Number			Date Revised		
1			15/03/2019		

	Coldand				ath (ana)		Orbert and Matthew	Complement			1	Ch h		Channe have 2	D-1			т т	Danisht	187-0	Final ALC		
Point	Grid ref. NGR X Y	lt (m) Slope	 Aspect Land use 	Ton	otn (cm)	Matrix	Ochreous Mottles ur Form Munsell colour	Grey Mottles	Gley	Texture	% > 2	Stones - typ	Type	Stones - type 2 % > 2cm > 6cm Type	Strength Size Shape SUBS STR	CaCO	Mn C	SPL	Drought w MBn Gd	Wet WC Gw	Limitation 1 Limitation 2 Limitation	3 Grade	Profile notes
	TQ 58232 84623 558232 184623 22	2 ≤7	-1	0	23 23	10YR4/2					le 10 6	2	GH - Gr	avel with non-porous (hard) sto	nes Not Appli	c NON -	NNo	No 39	27 1	WC III 3a	Wetness	3a	
				23	50 27	7.5YR5/6	CD - Common Distinct			SCL - Sai			GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NNo	No					
				50	120 70	7.5YR5/3	MD - Many Distinct		Yes	C - Clay	1		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NYes	No					
	TQ 58254 84725 558254 184725 22	2 ≤7		0	25 25	10YR4/2					le 10 6	2		avel with non-porous (hard) sto	nes Not Appli	c NON -	No	No 40	27 1	WC III 3a	Wetness	3a	
				25	17 22	7.5YR5/6 7.5YR5/3	CD - Common Distinct MD - Many Distinct		Yes	SCL - Sai C - Clay	n 1		GH - Gr	avel with non-porous (hard) storage with non-porous (hard) storage	nes Moderate nes Moderate			No					
				47	120 /3	7.5YK5/3	IVID - IVIANY DISTINCT		res	C - Clay	1		GH - GI	avei with non-porous (nard) sto	nes Moderate	NUN -	ryes	INO					
	TQ 58232 84823 558232 184823 26	5 ≤7		0 26	26 26	10YR4/2 7.5YR5/6	CD - Common Distinct			MSL - M SCL - Sai	16 10 6	2		avel with non-porous (hard) sto avel with non-porous (hard) sto		C NON -	NNo	No 39	27 1	WC III 3a	Wetness	3a	
						7.5YR5/6 7.5YR5/3	MD - Many Distinct			C - Clay				avel with non-porous (nard) sto		NON -	NVes	No.					
						, -	,			,	_				T I		1						
	TQ 58132 85023 558132 185023 20	0 67		n	00 20	10YR4/2			No	MACI - MA	le 10 6	2	GH . Gr	avel with non-porous (hard) sto	nes Not Appli	c NON -	N No	No. 41	26 1	WCII 2	Wetness	2	
	1030132 03023 330132 103023 20	0 3/		28	8 30	7.5YR5/6	CD - Common Distinct		Yes	SCL - Sai	n 1	2		avel with non-porous (hard) sto		NON -	NNo	No 41	20 1	WCII 2	wethess	ľ	
				58	120 62	7.5YR5/3	MD - Many Distinct			C - Clay				avel with non-porous (hard) sto		NON -	NYes	No					
	TQ 57972 85046 557972 185046 20	0 ≤7		0	24 24	10YR4/2		 	No	MSL - M	le 10 6	2	GH - Gr	avel with non-porous (hard) sto	nes Not Appli	c NON -	NNo	No 39	27 1	WC III 3a	Wetness	3a	+
				24	0 26	7.5YR5/6	CD - Common Distinct	1	Yes	SCL - Sai	n 1		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NNo	No	=				
				50	120 70	7.5YR5/3	MD - Many Distinct	1	Yes	C - Clay	1		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	NYes	No					
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	TQ 58132 85123 558132 185123 20	0 ≤7		0	30	10YR4/2				MSL - M			HR - All	hard rocks or stones (i.e. those	which cannot be scratched wil Not Appli	c NON -	Non-ca	No 10	12 2	WC II 1	Droughtiness	2	
						7.5YR5/3	CD - C ₁ 7.5YR5/6			SCL - Sai					which cannot be scratched wit Moderate			No					
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						10YR5/4 10YR5/3	CD - Cr5YR5/6 MD - N5YR5/8	CD - Cc2.5YR5/2 MD - N2.5YR6/1		SCL - Sai C - Clay				avel with non-porous (hard) sto		NON -	Non-ca	INO INO					
				54	20 00	101113/3	WID - FSTRS/6	WID - 112.311(0/1	163	C - Clay	10		dii-di	aver with hon-porous (hard) sto	iviodel ace	- NON	l	140					
	TQ 58132 85223 558132 185223 20	1 67		n	25 25	10YR4/2				MSL - M	145		MD - All	hard rocks or stones (i.e. those	which cannot be scratched wil Not Appli	c NON -	Non-ca	No 56	20 1	WCI 1		1	No limitations
	103013203223 330132 103223 20	J 3/		35	0 15	10YR4/4			No	MSL - M	162		HR - All	hard rocks or stones (i.e. those	which cannot be scratched without Appli	NON -	NNo	No 30	23 1	WC1 I		ľ	NO IIIIItations
				50	30 30	7.5YR5/3	CD - Ci 7.5YR5/6		Yes	HCL - Cla	ay 1		HR - All	hard rocks or stones (i.e. those	which cannot be scratched will Moderate	NON -	NNo	No					
				80	120 40		CD - Ci 7.5YR5/6		Yes	SCL - Sai	n 1		HR - All	hard rocks or stones (i.e. those	which cannot be scratched will Moderate	NON -	No	No					
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				24	8 34	10YR5/4		1	No	C - Clay	4		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	Non-ca	No					
				58	120 62	10YR5/4	FD - Few Distinct	FD - Few Distinct	Yes	C - Clay	4		GH - Gr	avel with non-porous (hard) sto	nes Moderate	NON -	Non-ca	No					
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	TO 50222 05/22 550222 405/22 24			22	18 26	7.5YR5/6	CD - Common Distinct	1	Yes	SCL - Sai	n 6		GH - Gr	avel with non-porous (hard) sto avel with non-porous (hard) sto	nes Not Appli nes Moderate	NON -	NNo	No 53	24 1	WCIII 3a	AACTIG22	bc	
	TQ 58332 85423 558332 185423 21	1 ≤7				7.5YR5/3	MD - Many Distinct	1	Yes	SCL - Sai	n 1			avel with non-porous (hard) sto				No		1	T.	- 1	1
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	TQ5833285423 558332 185423 21	1 ≤7		48	120 72	7.5185/5	,																
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				48			,					0	GH - Gr	avel with non-porous (hard) sto	nes Not Appli	c NON -	N No	No 38	26 1	WC III 3a	Wetness	3a	
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	Grid ref			Do	ath (cm	۱ ۱	Matrix	Ochreous Mottles	Grey Mottles		1	Stones - type	1 Stone	- type 2	Ped				T T	Drought	Wet	Final	ALC.	1
oint	NGR X Y	(m) Slo	pe ^o Aspect Land use					Form Munsell colour		Gley	Texture	% > 2cm > 6cm	Type % > 2cm	o - type 2 o 6cm Type		Shape SUBS STR	CaCO3	Mn C		w MBp Gd		Limitation 1 Limitation 2		Profile notes
_	TQ 58132 85423 558132 185423 20	≤7			0 3	0 1	10YR4/2				FSZL - Fi	• 2	HR - All hard rocks or st	ones (i.e. those w	thich cannot be see	ratched witNot Appli	C NON -	Non-cal	INO 54	42 1	WCII 1		1	No limitations
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			5	0 1	20 7	0 1	10YR5/5			No	C - Clay	0	HR - All hard rocks or st	ones (i.e. those w	hich cannot be sc	ratched wil Poor	NON -	NNo	No					
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	Q 38332 63323 338332 163323 22	۵,																						
_	TQ 58232 85523 558232 185523 22	-7		- 1	1 2	4 1	10YR4/2			No	MSL - M	6 2 0	GH - Gravel with non-p	arous (hard) ston	oc.	Not Appli	C NON -	N No	No. 29	26 1	WCIII 2a	Wetness	22	
	Q 30232 33323 330232 103323 22	2/	2	4 5	0 2	6 7	7.5YR5/6	CD - Cı 7.5YR5/6	CD - Cc2.5YR5/2	Yes	SCL - Sai	5	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	NNo	No	20 1	···CIII Jd	***************************************	Ja	
			5					CD - Cr7.5YR5/6	CD - Cc2.5YR5/2		C - Clay		GH - Gravel with non-p			Moderate								
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	Q3013203323 330132 103323 13	2,	2	4 5	0 2	6 7	7.5YR5/6	CD - Ct 7.5YR5/6	CD - Cc2.5YR5/2	Yes	SCL - Sai	5	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	NNo	No	20 1	WCIII 38	wedless	34	
			5	0 1	20 7	0 1	10YR6/3	CD - Cı 7.5YR5/6	CD - Cc2.5YR5/2	Yes	C - Clay	4	GH - Gravel with non-p	orous (hard) ston	es	Moderate	NON -	NYes	No					
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		≤7			2 3	2 1	10YR4/2			+	SCL - Sai	2	HR - All hard rocks or st	ones (i.e. these ::	thich cannot be see	ratched without Appli	CNON	Non-cal	No 27	24 1	WCIII 2°	Wetness	2h	
	O 50122 05722 550122 105722 16		U	- 3	ے 5	4 1	1011/4/2			1	SCL - Sai	12	III - All Haru FUCKS OF ST	ones (i.e. those w	thich cannot be se	ratched witModerati	CINON -	.I	3/	24 1	vvc III 58	AA CUIG22	lan lan	
_	TQ 58132 85723 558132 185723 16	2,	3	2 5	0 1	8 2		MP - N 7.5YR5/6		Yes	SCL - Sai	14					e MON -	NNO	No					
	FQ 58132 85723 558132 185723 16	21	5	2 5	0 1	0 2	2.5Y6/1	CP - Ct 7.5YR5/6		Yes	SC - San	13	HR - All hard rocks or st	ones (i.e. those w	hich cannot be sci	ratched witPoor	NON -	NNo	Yes					
	TQ5813285723 558132 185723 16	2,	5	2 5	0 1	0 2				Yes		13		ones (i.e. those w	hich cannot be sci	ratched witPoor		NNo	Yes Yes					

oint	Grid ref.	Alt (m) Flanc O Aspect Land	Depth (cm) Matrix	Ochreous Mottles	Grey Mottles	Gley Texture	Stones - type 1	Stones - type 2	Ped	SLIDS STD COCO2 Mo C SE	Drought	Wet	Final ALC	Profile notes
NGR	X Y	rac (m) Slope Project Land	Top Bttm Thick Munsell colou	r Form Munsell colour	Form Munsell colour	Gicy Texture	% > 2cm > 6cm Type	% > 2cm > 6cm Type	Strength Size Shape	SOBS SIN CACOS INII C SI	MBw MBp Gd	WC Gw	Limitation 1 Limitation 2 Limitation 3 Grade	Tome notes
END														

FF - Few Faint

FD - Few Distinct

FP - Few Prominent

CF - Common Faint

CD - Common Distinct

CP - Common Prominent

MF - Many Faint

MD - Many Distinct

MP - Many Prominent

VF - Very many Faint

VD - Very many Distinct

VP - Very many Prominent

Texture

C - Clay

CHK - Chalk

CS - Coarse Sand

CSL - Coarse sandy loam

CSZL - Coarse sandy silt loam

FP - Fibrous and semifibrous peats

FS - Fine Sand

FSL - Fine sandy loam

FSZL - Fine sandy silt loam

HCL - Clay loam (heavy)

HP - Humified peats

HZCL - Silty clay loam (heavy)

IMP - Impenetrable to roots

LCS - Loamy Coarse Sand

LFS - Loamy fine sand

LMS - Loamy medium sand

LP - Loamy peats

MCL - Clay loam (medium)

MS - Medium Sand

MSL - Medium sandy loam

MSZL - Medium sandy silt loam

MZ - Marine Light Silts

MZCL - Silty clay loam (medium)

OC - Organic clays

OL - Organic loams

OS - Organic sands

PL - Peaty loams

PS - Peaty sands

SC - Sandy clay

SCL - Sandy clay loam

SP - Sandy peats

ZC - Silty clay

ZL - Silt loam

Stone Type

CH - Chalk or chalk stones

FSST - Soft fine grained sandstones

GH - Gravel with non-porous (hard) stones

GS - Gravel with porous stones (mainly soft stone types listed above)

HR - All hard rocks or stones (i.e. those which cannot be scratched with a finger nail)

MSST - Soft, medium or coarse grained sandstones

SI - Soft 'weathered' igneous or metamorphic rocks or stones

SLST - Soft oolitic or dolomitic limestones

ZR - Soft, argillaceous or silty rocks or stones

Ped. Shape

SG - Single grain GRA - Granular

SAB - Subangular Blocky

AB - Angular Blocky

PRIS - Prismatic

PLAT - Platy MASS - Massive

NA - N/A

Subsoil Structure Condition

Not Applicable

Good

Moderate

Poor

Soil or Ped. Strength

Loose

Very friable

Friable

Firm

Very firm

Extremely firm

Extremely hard

N/A

Calcareousness

NON - Non-calcareous (<0.5% CaCO3)

VSC - Very slightly calcareous (0.5 - 1% CaCO3)

SC - Slightly calcareous (1 - 5% CaCO3)

MC - Moderately calcareous (5 - 10% CaCO3)

VC - Very calcareous (>10% CaCO3)

Ped. Size

VF - Very Fine

F - Fine

M - Medium

C - Coarse

VC - Very Coarse

NA - N/A

Degree of Ped. Development

W - Weak

M - Moderate

S - Strong

NA - Not applicable

Wetness Class

WC I

WC III

WC IV

WC V

WC VI

ALC Grades

1

2 3a

3b

4 5

Non-Ag

Glev

None Gley

Annex C Predictive ALC

Lower Thames Crossing

(C690)

Ordnance Survey (OS) Grid Squares over Development Boundary

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	49	50 51 52 53 54 55 56 57 58 59	60 61 62 63 64 65 66 67 68 69	70 71 72 73 74 75 76 77 78 79	80
92			Lower Thames Crossing: 1Km Grid		
91		M25			
90	TQ09	TQ9057	TQ29	TQ39	TQ49
89	TQ08	TQ8957 TQ8958			
88		TQ8856 TQ8857 TQ8858 TQ8859			
87		Cranham TQ8758 TQ8759			
86		TQ8658 TQ8659			
85		TQ8557 TQ8558 North	TQ8560 TQ8561		
84		TQ8458 TQ8459	TQ8460 TQ8461 TQ8462		
83		TQ8358 TQ8359	TQ8360 TQ8361 TQ8362 TQ8363 TQ8364		
82		South Ockendon	TQ8261 TQ8362 TQ8263 Orsett		
81			TQ8162 TQ8163 TQ8164 TQ8165 A13		
80	TQ08	TQ18	TQ28 TQ8062 TQ8063 TQ8064 TQ8065	TQ38	TQ48
79	TQ07		TQ7963 TQ7964 TQ7965 TQ7966 TQ7967 Linford		
78			TQ7866 TQ7867 TQ7868		
77			TQ7766 TQ7767 TQ7768 TQ77	9	
76			Tilbury TQ7665 TQ7666 TQ7667 TQ7668		
75			River Thames TQ7566 TQ7567 TQ7567 Tham	s s	
74			River Gravesend Thames TQ7467 Thames		
73			ТQ7367 ТQ7368		
72			TQ7267 TQ7268		
71			Thong TQ7166 TQ7167 TQ7168		
70	TQ07	TQ17	TQ27 A2 TQ7065 TQ7066 TQ7067 TQ7068	TQ37	TQ47
69			TQ6966 TQ6967 TQ6968 TQ69	9 TQ6971 M2	
68					
67					
66					
65					
64					
63					
62					
61					
	TQ06	TQ16	TQ26	TQ36	TQ46
59					l l

C690 - Lowwer Thames Crossing: ALC Climate data per 1km Gid Square

UID	1km Grid	Х	Υ	Height (m)	AAR	AT	MW	MP	FCD	GRADE
1	TQ9057	557511	190522	82	610	1402	114	108	114	1
2	TQ8958	558507	189502	68	605	1419	116	111	111	1
3	TQ8957	557533	189479	40	599	1450	119	115	110	1
4	TQ8858	558490	188490	31	598	1461	120	117	110	1
5	TQ8857	557485	188463	32	598	1460	120	116	110	1
6	TQ8758	558494	187461	20	595	1474	122	119	108	1
7	TQ8658	558530	186496	8	593	1488	124	121	107	1
8	TQ8558	558461	185517	24	596	1470	122	119	107	1
9	TQ8557	557491	185480	17	592	1479	122	119	107	1
10	TQ8461	561507	184502	5	583	1492	125	123	106	1
11	TQ8460	560500	184497	9	591	1488	124	122	105	1
12	TQ8459	559500	184473	30	596	1464	122	119	106	1
13	TQ8458	558488	184536	23	591	1472	123	120	105	1
14	TQ8362	562524	183476	3	570	1494	126	124	105	1
15	TQ8361	561498	183460	7	577	1490	125	123	104	1
16	TQ8360	560517	183529	-3	580	1501	126	124	104	1
17	TQ8359	559486	183453	23	589	1472	123	120	105	1
18	TQ8358	558505	183486	19	584	1477	123	121	104	1
19	TQ8262	562521	182496	7	656	1490	126	124	104	1
20	TQ8164	564498	181483	32	562	1462	124	121	102	1
	TQ8163	563472	181467	20	560	1475	125	123	102	1
	TQ8162	562507	181513	16	563	1480	125	123	103	1
	TQ8065	565531	180495	32	556	1462	125	122	101	1
	TQ8064	564502	180494	23	551	1472	126	124	100	1
	TQ8063	563502	180494	25	557	1470	125	123	101	1
	TQ8062	562522	180511	26	564	1469	124	121	102	1
	TQ7966	566496	179496	13	549	1484	127	126	101	1
	TQ7965	565502	179486	21	549	1474	126	124	102	1
	TQ7964	564497	179512	27	553	1468	125	123	101	1
-	TQ7963	563468	179498	28	557	1467	125	122	102	1
	TQ7867	567511	178497	5	552	1493	128	127	101	1
	TQ7866	566514	178519	14	554	1483	127	125	100	
	TQ7767	567503	177489	4	556	1495	128	127	100	
	TQ7766	566538	177463	5	555	1494	128	126	102	1
	TQ7668	568508	176524	1	559	1498	128	127	101	1
	TQ7667	567502	176510	2	559	1497	128	127	102	1
	TQ7666	566499			559					
	TQ7665	565497	176531	-2	558	1503	128	127	104	
	TQ7567	567513	175422	0		1500	128	127	103	
	TQ7566	566486	175467	8	566	1492	126	125	104	
	TQ7467	567501	174508		572	1501	127	126	-	
-	TQ7368	568507	173506		575	1499	127	125		
	TQ7367	567521	173485		577	1499	126	125		
	TQ7268	568510	172532		600	1463	122	119	-	
-	TQ7267	567499	172438		606	1450	120	116		
	TQ7167	567497	171488	60	617	1433	118	113		
	TQ7067	567492	170495		628		115	110		
	TQ7066	566529	170513	72 69	622	1420 1424	116	111	120	
	TQ7065	565518 567500	170493		620		116	111	121	
50	TQ6967	567500	169494	123	662	1362	108	101	129	1

Min Max Mean

AOD	AAR	AT	MW	MP	FCD	GRADE
-3	549	1362	108	101	100	1
123	662	1503	128	127	129	1
22	581	1473	124	121	106	1

Lower Thames Crossing

(C690)

Predictive Agricultural Land Classification (ALC) Map

Last Updated 25/06/20 Version redicted MAFF Pro 1988 ALC BMV Likelihood **Auger Bore Location Climate limitations** Site limitations Soil and interactive limitations ALC Grade Windsor TQ19 TQ9057 1 190021.73 1398 114 108 1 - 3a Low (<= 20% BMV) TO18 TO8957 2 557632.55 189723.32 LEY 599 1450 119 115 110 1 78 <7° 1-3a 1-3a Flood Zone 1 Clay, Silt and S None Windsor Windsor eavy Clay Loa III Slightly s 3b 3 3a -6 3a Low (<= 20% BMV) TQ18 TQ8957 3 557637.55 189623.32 599 1450 119 115 110 1 1 - 3a ood Zone 1 lay, Silt and S Clay, Silt, Sa Windsor avy Clay Lo 3b Low (<= 20% BMV) eciduous woodland TQ18 TQ8957 4 557934.38 189623.32 1450 119 115 110 1 l - 3a ood Zone 1 lay, Silt and S None Low (<= 20% BMV) 1 - 3a /indsor Vindsor avy Clay L slightly TQ18 TQ8957 5 557788.11 189525.87 1450 119 115 110 - 3a od Zone 1 lay, Silt and S Clay, Silt, Sa Vindsor avy Clay L Slightly ow (<= 20% BMV) eciduous woodland Vindsor TQ18 TQ8958 6 558016.12 189521.73 CER 1419 116 111 111 1 58 <7° - 3a 1 - 3a od Zone 1 Clay, Silt and S None Vindsor Vindsor avy Clay L Slightly 3b -12 3a ow (<= 20% BMV) TQ18 TQ8957 7 557941.78 189324.38 1450 119 115 110 1 - 3a lay, Silt and S Clay, Silt, Sa Slightly Low (<= 20% BMV) ciduous woodland ood Zone 1 indsor Vindsor avy Clay TQ18 TQ8958 8 558212.94 189223.32 1419 116 111 111 1 - 3a ood Zone 1 Clay, Silt and S Clay, Silt, Sar indsor avy Clay L Slightly Low (<= 20% BMV) Vindsor TQ18 TQ8958 9 558058.78 189123.98 DCW 605 1419 116 111 111 1 L - 3a 1 - 3a ood Zone 1 Clay, Silt and S Clay, Silt, Sar Slightly 3b -12 3a Low (<= 20% BMV) Deciduous woodland avy Clay Lo TO18 TO8958 10 558328.03 189023.32 CER 605 1419 116 111 111 1 36 <7° Clay, Silt and S Clay, Silt, Sar -12 3a Low (<= 20% BMV) 1 - 3a 1 - 3a ood Zone 1 Vindsor Windsor avv Clav Lo Slightly st TQ18 TQ8958 11 558428.03 189023.32 1419 116 111 111 - 3a 1 - 3a od Zone 1 lay, Silt and S Clay, Silt, Sa Slightly ow (<= 20% BMV) /indsor avv Clav Loa TQ18 TQ8958 12 558528.03 189023.32 1419 116 111 111 -12 3a w (<= 20% BMV) lay, Silt and S Clay, Silt, Sa 3b 2 3a -18 3a TQ18 TQ8858 13 558428.03 SCR 598 1461 120 117 110 1 32 <7° - 3a 1 - 3a 188923.32 ood Zone 1 Clay, Silt and S Clay, Silt, San Vindsor Windsor avv Clav Lo Slightly st 1 TQ18 TQ8858 14 558528.03 1461 120 117 110 - 3a lood Zone 1 Clay, Silt and S Clay, Silt, San Vindsor Slightly st 3b Low (<= 20% BMV Windsor avv Clav Lo TQ18 TQ8858 15 558128.03 188823.32 1461 120 117 110 1 lood Zone 1 Clay, Silt and S Clay, Silt, San 3b За -18 3a Low (<= 20% BMV) - 3a Windsor Windsor avy Clay Lo Slightly st <7° Low (<= 20% BMV) TQ18 TQ8858 16 558228.03 188823.32 598 1461 120 117 110 1 1 - 3a lood Zone 1 Clay, Silt and S Clay, Silt, San Windsor Windsor avy Clay Lo Slightly 3b -18 3a <7° 1 - 3a -18 3a 598 1461 120 117 110 1 Clay, Silt and S Clay, Silt, Sa TQ18 TQ8858 17 558228.03 188723.32 - 3a ood Zone 1 Vindsor Windsor avy Clay L Slightly low (<= 20% BMV) lay, Silt and S None 3b -18 3a TQ18 TQ8858 18 558895.39 188658.37 1461 120 117 110 L - 3a ood Zone 1 Slightly Low (<= 20% BMV) 1 - 3a Vindsor Vindsor avy Clay L Ion Agric 3b TQ18 TQ8858 19 558761.65 - 3a lay, Silt and S None avy Clay L Slightly -18 3a ow (<= 20% BMV) -18 3a TQ18 TQ8858 20 558228.03 1461 120 117 110 1 - 3a od Zone 1 lay, Silt and SiClay, Silt, Sa Vindsor avy Clay Slightly ow (<= 20% BMV TO18 TO8858 21 558632.55 188623.32 598 1461 120 117 110 1 - 3a ood Zone 1 Clay, Silt and S None Vindsor Vindsor avy Clay L Slightly -18 3a Ion Agricu Low (<= 20% BMV) DCW 598 1460 120 116 110 1 TQ18 TQ8857 22 557932.55 188423.32 Clay, Silt and S Clay, Silt, Sa avy Clay Lo 3b -17 3a Low (<= 20% BMV) Deciduous woodland TO18 TO8857 23 557828.03 188323.32 DCW 598 1460 120 116 110 1 26 <7° 1 - 3a 1 - 3a ood Zone 1 Clay, Silt and S Clay, Silt, Sa Mindsor Windsor avy Clay Loa Slightly 3b 2 3a -17 3a Ion Agricult Low (<= 20% BMV) Deciduous woodland 27 <7° TQ18 TQ8858 24 558028.03 188323.32 DCW 598 1461 120 117 110 1 lav. Silt and S Clav. Silt. Sa Slightly s -18 3a Low (<= 20% BMV) Deciduous woodland L - 3a 1 - 3a indsor Vindsor avv Clav Lo lav. Silt and S Clav. Silt. Sa avy Clay Lo DCW 598 1461 120 117 110 1 26 <7° 3b 2 3a -18 3a TO18 TO8858 26 558228.03 188223.32 l - 3a 1 - 3a ood Zone 1 Clay, Silt and S Clay, Silt, Sa avv Clav L Slightly Low (<= 20% BMV) Deciduous woodland 28 <7° 1 - 3a 3b 3a -18 3a TQ18 TQ8858 27 558428.03 188223.32 1461 120 117 110 1 - 3a Clay, Silt and S Clay, Silt, Sa Slightly st ow (<= 20% BMV) ood Zone 1 indsor Vindsor avv Clav Lo 3b -18 3a TQ18 TQ8858 28 558628.03 188223.32 1461 120 117 110 1 - 3a ood Zone 1 Clay, Silt and S Clay, Silt, Sar Slightly s Low (<= 20% BMV) Vindsor Vindsor avy Clay L DCW 598 1460 120 116 110 1 23 <7° Deciduous woodland TQ18 TQ8857 29 557928.03 188123.32 - 3a Flood Zone 1 Clay, Silt and S Clay, Silt, San Windsor Vindsor avy Clay Lo Slightly s Low (<= 20% BMV) -18 3a <7° TQ18 TQ8858 30 558428.03 188123.32 598 1461 120 117 110 1 l - 3a 1 - 3a lood Zone 1 Clay, Silt and S Clay, Silt, Sa Windsor Windsor avy Clay L Slightly Low (<= 20% BMV) TQ18 TQ8858 31 558728.03 188123.32 1461 120 117 110 1 l - 3a ood Zone 1 lay, Silt and S Clay, Silt, Sa Slightly Low (<= 20% BMV) 1 - 3a Vindsor Vindsor avy Clay L TQ18 TQ8858 32 558836.07 188120.57 1461 120 117 110 - 3a od Zone 1 lay, Silt and S None /indsor Slightly ow (<= 20% BMV) Vindsor avy Clay L 3b TQ18 TQ8858 33 558528.03 188023.32 1461 120 117 110 1 - 3a 1 - 3a od Zone 1 Clay, Silt and SClay, Silt, Sa /indsor Vindsor avy Clay L Slightly -18 3a ow (<= 20% BMV) ciduous woodland TQ18 TQ8858 34 558728.03 1461 120 117 110 1 - 3a Clay, Silt and S Clay, Silt, Sa Low (<= 20% BMV) ood Zone 1 Vindsor avv Clav L Slightly TQ18 TQ8858 35 558828.03 1461 120 117 110 l - 3a ood Zone 1 lay, Silt and S None indsor Low (<= 20% BMV) Vindsor avy Clay Lo TQ18 TQ8758 36 558528.03 187923.32 CER 595 1474 122 119 108 1 25 <7° 1 - 3a 1 - 3a Clay, Silt and S Clay, Silt, Sa 3b 0 3a -20 3a Low (<= 20% BMV) avy Clay Load 19 <7° TO18 TO8758 37 558828.03 187923.32 CER 595 1474 122 119 108 1 Clay, Silt and S None 3a -20 3a 1 - 3a 1 - 3a ood Zone 1 /indsor Windsor avv Clav Loa Slightly st Low (<= 20% BMV) TQ18 TQ8758 38 558928.03 187923.32 1474 122 119 108 l - 3a 1 - 3a od Zone 1 av. Silt and S Clav. Silt. Sa Slightly -20 3a ow (<= 20% BMV) /indsor avv Clav Loa За -20 3a 558528.03 187823.32 1474 122 119 Slightly 3b w (<= 20% BMV) 13 <7° 3a -20 3a TQ18 TQ8758 40 558828.03 3b 1474 122 119 108 1 - 3a 1 - 3a lay, Silt and S Clay, Silt, Sar /indsor Windsor avy Clay L Slightly ow (<= 20% BMV) <7° TO18 TO8758 41 558928.03 187823.32 1474 122 119 108 1 1 - 3a lay, Silt and S Clay, Silt, Sa -20 3a ow (<= 20% BMV) - 3a ood Zone 1 indsor Vindsor avy Clay L Slightly TQ18 TQ8758 42 558628.03 187723.32 1474 122 119 108 1 -20 3a Low (<= 20% BMV) 1 - 3a lood Zone 1 Clay, Silt and S Clay, Silt, Sa - 3a Vindsor Windsor avy Clay L Slightly 13 <7° TQ18 TQ8758 43 558828.03 187723.32 1474 122 119 108 1 L - 3a 1 - 3a ood Zone 1 Clay, Silt and S Clay, Silt, Sar Windsor Windsor -20 3a Low (<= 20% BMV) CER 595 1474 122 119 108 1 12 <7° 1-3a 1-3a Low (<= 20% BMV) TQ18 TQ8758 44 558928.03 187723.32 sib Clay, Silt and S Clay, Silt, Sar Windsor

TQ18 TQ8758 45 558705.8 187519.61 QTH 595 1474 122 119 108 1 14 C7* 1 - 3a 1 - 3a Flood Zone 1 1 1 Clay, Silt and S Clay, Silt, Sane Windsor Windsor Heavy Clay Loa III Slighthy st 1 3b 0 3a 20 3a 1 Non Agricult TQ18 TQ8758 46 559228.03 187423.22 CER 595 1474 122 119 108 1 9 C7* 1 - 3a 1 - 3a Flood Zone 1 1 1 Clay, Silt and S Clay, Silt, Sane Windsor Windsor Windsor Windsor Heavy Clay Loa III Slighthy st 1 3b 0 3a 20 3a 1 3b 1 3b 1 3b 1 3b 1 3b 1 3b 1 3b 1	
TQ18 TQ8758 47 558763.48 187408.5 LEV 595 1474 122 119 108 1 12 <7* 1-3a 1-3a Flood Zone 1 1 1 Clay, Silt and SClay, Silt, Sand Windsor Windsor Windsor Heavy Clay Loa III Slightly s1 3b 0 3a -20 3a 1 3b TQ18 TQ8758 49 558806.33 187222.79 CER 595 1474 122 119 108 1 12 <7* 1-3a 1-3a Flood Zone 1 1 1 Clay, Silt and Sclay, Silt, Sand Windsor Windsor Windsor Heavy Clay Loa III Slightly s1 3b 0 3a -20 3a 1 3b TQ18 TQ8758 49 558806.33 187222.79 DCW 595 1474 122 119 108 1 12 <7* 1-3a 1-3a Flood Zone 1 1 1 Clay, Silt and Sclay, Silt, Sand Windsor Windsor Windsor Heavy Clay Loa III Slightly s1 3b 0 3a -20 3a 1 Non Agricult	3 Low (<= 20% BMV) Road
TQ18 TQ878 48 558706.33 187222.79 CER 595 1474 122 119 108 1 12 <7* 1-3a 1-3a Flood Zone 1 1 1 Clay, Silt and Sclay, Silt, Sand Windsor Windsor Windsor Heavy Clay Loa III Slightly S1 3b 0 3a 20 3a 1 3b TQ18 TQ878 49 558806.33 187222.79 DCW 595 1474 122 119 108 1 12 <7* 1-3a 1-3a Flood Zone 1 1 1 Clay, Silt and Sclay, Silt, Sand Windsor Windsor Heavy Clay Loa III Slightly S1 3b 0 3a 20 3a 1 Non Agricult	3 Low (<= 20% BMV)
T018 T08758 49 558806.33 187222.79 DCW 595 1474 122 119 108 1 12 <7° 1-3a 1-3a Flood Zone 1 1 1 Clay, Silt and Sclay, Silt, Sane Windsor Windsor Heavy Clay Loa III Slightly \$1 3b 0 3a 20 3a 1. Non Agricult	3 Low (<= 20% BMV)
T018 T08758 49 558806.33 182222.79 DCW 595 1474 122 119 108 1 12 <7* 1-3a 1-3a Flood Zone 1 1 1 Clay, Silt and Sclay, Silt, Sanc-Windsor Windsor Heavy Clay Loa III Slightly s1 3b 0 3a 20 3a 1. Non Agricult	3 Low (<= 20% BMV)
	3 Low (<= 20% BMV) Deciduous woodland
TQ18 TQ8758 50 558706.33 187122.79 CER 595 1474 122 119 108 1 10 <7* 1 - 3a 1 - 3a Flood Zone 1 1 1 Clay, Silt and SClay, Silt, SandWindsor Windsor Heavy Clay Loa III Slightly st 1 3b 0 3a -20 3a 1 3b	3 Low (<= 20% BMV)
	5 COW (1- 20% DANY)
TQ18 TQ8758 52 559028.03 187023.32 CER 595 1474 122 119 108 1 8 <7* 1 - 3a 1 - 3a Flood Zone 3 1 1 Clay, Silt and SClay, Silt, Sand Windsor Windsor Weavy Clay Loa II Slightly s1 3b 0 3a <20 3a 1 3b	3 Low (<= 20% BMV)
TQ18 TQ8758 53 558706.33 187022.79 CER 595 1474 122 119 108 1 10 <7° 1 - 3a 1 - 3a Flood Zone 1 1 1 Clay, Silt and SClay, Silt, Sand Windsor Windsor Weavy Clay Loa III Slightly s1 3b 0 3a 20 3a 1 3b	3 Low (<= 20% BMV)
TQ18 TQ8758 54 558806.33 187022.79 DCW 595 1474 122 119 108 1 10 <7 1-3a Flood Zone 1 1 Clay, Silt and Sciay, Silt, Sand Windsor Windsor Heavy Clay Loa III Slightly s1 3b 0 3a 20 3a 1 Non Agricult	3 Low (<= 20% BMV) Deciduous woodland
TQ18 TQ8658 55 559028.03 186923.32 CER 593 1488 124 121 107 1 8 <7° 1-3a 1-3a Flood Zone 3 1 Possib Clay, Silt and S Clay, Silt, Sand Windsor Windsor Heavy Clay Lob III Slightly s1 3b -2 3a -22 3a 1 3b	3 Low (<= 20% BMV)
TQ18 TQ8658 56 558728.03 186823.32 OTH 593 1488 124 121 107 1 10 <7 1-3a Flood Zone 1 1 Clay, Silt and Clay, Silt, Sand Windsor Windsor Windsor Heavy Clay Load III Slightly sl 1 3b -2 3a -22 3a 1 Non Agricult	3 Low (<= 20% BMV) Solar Farm
TQ18 TQ8658 57 559028.03 186823.32 CER 593 1488 124 121 107 1 8 <7" 1-3a 1-3a Flood Zone 2 1 Possib Clay, Silt and Glay, Silt, Sand Windsor Windsor Heavy Clay Loa III Slightly st 1 3b -2 3a -22 3a 1 3b	3 Low (<= 20% BMV)
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TO28 TO8361 197 561828.03 183223.32	CEP	577 1490 125 123	104 1	4 <70	1 - 3a	1 - 3a	Flood Zone 3	1 00	_	v. Silt and S Clay, Silt, S	nd Fladbury 3	Fladbury	Clay		Stoneless	1 3b	-5	32	-25 3a -26 3a	1	3h	3	Low (<= 20% BMV)	
TQ28 TQ8361 197 361628.03 183223.32	CER	577 1490 125 123	104 1	5 <7°		1 - 3a	Flood Zone 3	1 00	,	y, Silt and S Clay, Silt, S		Fladbury	Clay	III	Stoneless	1 3b	-5	3a	-26 3a	1	3h	3	Low (<= 20% BMV)	
TO28 TO8361 199 561928.03 183123.32	CFR	577 1490 125 123	104 1	5 <70	1 - 3a	1 - 3a	Flood Zone 3	1 00		y, Silt and S Clay, Silt, S	_	Fladbury	Clay	III	Stoneless	1 3b	-5	3a	-26 3a	1	3h	3	Low (<= 20% BMV)	
TQ28 TQ8361 199 361928.03 183123.32	CEP	570 1494 126 124	104 1	4 <7°		1 - 3a	Flood Zone 3	1 00		v. Silt and S Clay, Silt, S	nd Fladbury 3	Fladbury	Clay		Stoneless	1 3b	-6	32	-26 3a	1	3h	3	Low (<= 20% BMV)	
TQ28 TQ8361 201 561928.03 183023.32	CFR	577 1490 125 123	104 1	4 <70	1 - 3a	1 - 3a	Flood Zone 3	1 00		v. Silt and S Clay, Silt, S	nd Fladbury 3	Fladbury	Clay	III	Stoneless	1 26	-5	3a	-27 3a -26 3a	1	3h	3	Low (<= 20% BMV)	
TO28 TO8262 202 562828.03 182923.32	CER	656 1490 126 124	104 1	5 <7°		1 - 3a	Flood Zone 3	1 Po		v. Silt and S Clay, Silt, S	- ·	Windsor	Heavy Clay Loa		Slightly st	1 3b	-4	3a	-25 3a	1	3h	3	Low (<= 20% BMV)	
TQ28 TQ8263 203 563028.03 182923.32	CER	656 1490 126 124	104 1	4 <7°		1 - 3a	Flood Zone 3	1 Po	,	y, Silt and S Clay, Silt, S		Windsor	Heavy Clay Loa		Slightly st	1 3b	-4	3a	-25 3a	1	3h	3	Low (<= 20% BMV)	
TQ28 TQ8262 204 562028.03 182823.32	CER	656 1490 126 124	104 1	3 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po		y, Silt and SClay, Silt, S	nd Fladbury 3	Fladbury	Clay	III	Stoneless	1 3b	-6	3a	-27 3a	1	3h	3	Low (<= 20% BMV)	
TQ28 TQ8262 205 562528.03 182823.32	CER	656 1490 126 124	104 1	3 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ossib Clav	v. Silt and S Clav. Silt. S	ndWindsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 206 562728.03 182823.32	CER	656 1490 126 124	104 1	5 <7°		1 - 3a	Flood Zone 3	1 Po	ossib Clav	y, Silt and SClay, Silt, S	nd Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 207 562828.03 182823.32	CER	656 1490 126 124	104 1	5 <7°		1 - 3a	Flood Zone 2	1 Po		y, Silt and SClay, Silt, S	nd Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 208 562928.03 182823.32	DCW	656 1490 126 124	104 1	5 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ossib Clav	y, Silt and SClay, Silt, S	nd Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	Non Agricult	3	Low (<= 20% BMV)	Deciduous woodland
TQ28 TQ8263 209 563028.03 182823.32	CER	656 1490 126 124	104 1	5 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	_	y, Silt and S Clay, Silt, S		Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 210 562528.03 182723.32	CER	656 1490 126 124	104 1	5 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ssib Clay	y, Silt and S Clay, Silt, S	nc Windsor	Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 211 562728.03 182723.32	CER	656 1490 126 124	104 1	6 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay	y, Silt and S Clay, Silt, S	nd Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
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TQ28 TQ8263 214 563028.03 182723.32	CER	656 1490 126 124	104 1	5 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ssib Clay	y, Silt and S Clay, Silt, S	nc Windsor	Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8263 215 563128.03 182723.32	CER	656 1490 126 124	104 1	5 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ssib Clay	y, Silt and S Clay, Silt, S	nd Windsor	Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 216 562106.59 182721.73	CER	656 1490 126 124	104 1	3 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ossib Clay	y, Silt and S Clay, Silt, S	nd Fladbury 3	Fladbury	Clay	III	Stoneless	1 3b	-6	3a	-27 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 217 562128.03 182623.32	CER	656 1490 126 124	104 1	3 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ssib Clay	y, Silt and S Clay, Silt, S	nd Fladbury 3	Fladbury	Clay	Ш	Stoneless	1 3b	-6	3a	-27 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 218 562428.03 182623.32	CER	656 1490 126 124	104 1	5 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Po	ssib Clay	y, Silt and S Clay, Silt, S	nd Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 219 562528.03 182623.32	CER	656 1490 126 124	104 1	5 <7°		1 - 3a	Flood Zone 1	1 1	Clay	y, Silt and S Clay, Silt, S	nd Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8263 220 563028.03 182623.32	CER	656 1490 126 124	104 1	6 <7°	1 30	1 - 3a	Flood Zone 1	1 1	Clay	y, Silt and SClay, Silt, S	nc Windsor	Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8263 221 563128.03 182623.32	CER	656 1490 126 124	104 1	6 <7°		1 - 3a	Flood Zone 1	1 1		y, Silt and S Clay, Silt, S		Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 222 562228.03 182523.32	DCW	656 1490 126 124	104 1	5 <7°	_	1 - 3a	Flood Zone 3	1 Po		y, Silt and S Clay, Silt, S	_	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-4	3a	-25 3a	1	Non Agricult	3	Low (<= 20% BMV)	Deciduous woodland
TQ28 TQ8262 223 562328.03 182523.32	CER	656 1490 126 124	104 1	5 <7°		1 - 3a	Flood Zone 2	1 Po		y, Silt and S Clay, Silt, S		Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 224 562428.03 182523.32	CER	656 1490 126 124	104 1	6 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	,	y, Silt and S Clay, Silt, S	ndWindsor	Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	Hedge relocation
TQ28 TQ8262 225 562528.03 182523.32	CER	656 1490 126 124	104 1	6 <7°	1 50	1 - 3a	Flood Zone 1	1 1		y, Silt and S Clay, Silt, S	ndWindsor	Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8262 226 562228.03 182423.32	CER	656 1490 126 124	104 1	5 <7°	_	1 - 3a	Flood Zone 3	1 Po		y, Silt and S Clay, Silt, S	ndWindsor	Windsor	Heavy Clay Loa	III 	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	ļ
TQ28 TQ8262 227 562328.03 182423.32	CER	656 1490 126 124 656 1490 126 124	104 1	6 <7°	1 - 3a 1 - 3a	1 - 3a 1 - 3a	Flood Zone 1	1 1		y, Silt and S Clay, Silt, S		Windsor	Heavy Clay Loa	011 	Slightly st	1 3b	-4	3a	-25 3a	1	3b	3	Low (<= 20% BMV)	
	CER			ь <7°			Flood Zone 1	1 1		y, Silt and S Clay, Silt, S		Windsor	Heavy Clay Loa	ull 	Slightly st	1 3b 1 3b	-4	3a	-25 3a -25 3a	1	3D	3	Low (<= 20% BMV)	
TQ28 TQ8262 228 562428.03 182423.32	crn					1 - 3a	Flood Zone 1	1 1	-Clav	y, Silt and S Clay, Silt, S	nc Windsor	Windsor	Heavy Clay Loa	p11	Slightly st Slightly st	1 3b 1 3b	-4	3a		1	οD	2	Low (<= 20% BMV)	
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TQ28 TQ8262 229 562528.03 182423.32 TQ28 TQ8262 230 562228.03 182323.32 TQ28 TQ8262 231 562328.03 182323.32 TQ28 TQ8262 232 562428.03 182323.32	CER	656 1490 126 124 656 1490 126 124 656 1490 126 124	104 1 104 1 104 1	0 17	1 - 3a 1 - 3a 1 - 3a	1 - 3a 1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1	1 1 1 1 1 1	Clay Clay	y, Silt and S Clay, Silt, S y, Silt and S Clay, Silt, S	nd Windsor nd Windsor	Windsor Windsor	Heavy Clay Loa Heavy Clay Loa		Slightly st Slightly st	1 3b 1 3b	-4	3a 3a 3a	-25 3a -25 3a	1 1 1	3b 3b 3b	3	Low (<= 20% BMV) Low (<= 20% BMV)	
TQ28 TQ8262 229 562528.03 182423.32 TQ28 TQ8262 230 562228.03 182323.32 TQ28 TQ8262 231 56238.03 182323.32 TQ28 TQ8262 232 562428.03 182323.32 TQ28 TQ8262 233 56258.03 182323.32	CER	656 1490 126 124 656 1490 126 124 656 1490 126 124 656 1490 126 124	104 1 104 1 104 1 104 1	6 <7° 6 <7° 7 <7°	1 - 3a 1 - 3a 1 - 3a 1 - 3a	1 - 3a 1 - 3a 1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Clay, Clay, Clay,	y, Silt and S Clay, Silt, S y, Silt and S Clay, Silt, S y, Silt and S Clay, Silt, S	nd Windsor nd Windsor nd Windsor	Windsor Windsor Windsor	Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa		Slightly st Slightly st Slightly st	1 3b 1 3b 1 3b	-4 -4 -4	3a 3a 3a 3a	-25 3a -25 3a -25 3a	1 1 1 1	3b 3b 3b 3b	3 3 3	Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV)	
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TQ28 TQ8262 229 562528.03 182423.32 TQ28 TQ8262 230 562228.03 182323.32 TQ28 TQ8262 231 562328.03 182323.32 TQ28 TQ8262 232 562428.03 182323.32 TQ28 TQ8262 233 562528.03 182323.32 TQ28 TQ8262 234 562328.03 182223.32 TQ28 TQ8262 235 562428.03 182223.32	CER CER CER CER	656 1490 126 124 656 1490 126 124 656 1490 126 124 656 1490 126 124 656 1490 126 124 656 1490 126 124 656 1490 126 124	104 1 104 1 104 1 104 1 104 1 104 1	6 <7° 6 <7° 7 <7° 6 <7° 7 <7°	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Clay, Clay, Clay, Clay, Clay,	y, Silt and S Clay, Silt, S y, Silt and S Clay, Silt, S	na Windsor na Windsor na Windsor na Windsor na Windsor	Windsor Windsor Windsor Windsor Windsor	Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa		Slightly st Slightly st Slightly st Slightly st Slightly st	1 3b 1 3b 1 3b 1 3b 1 3b	-4 -4 -4 -4	3a 3a 3a 3a 3a 3a	-25 3a -25 3a -25 3a -25 3a -25 3a	1 1 1 1 1	3b 3b 3b 3b 3b 3b	3 3 3 3	Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV)	Hedee relocation
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TQ28 TQ8262 229 562528.03 182423.32 TQ28 TQ8262 230 562228.03 182323.32 TQ28 TQ8262 231 56238.03 182323.32 TQ28 TQ8262 232 56248.03 182323.32 TQ28 TQ8262 233 56258.03 182223.32 TQ28 TQ8262 235 56248.03 182223.32 TQ28 TQ8262 235 56238.03 182223.32 TQ28 TQ8262 236 56258.03 182223.32 TQ28 TQ8262 236 56238.03 182223.32 TQ28 TQ8262 236 56238.03 182223.32	CER CER CER CER	656 1490 126 124 656 1490 126 124	104 1 104 1 104 1 104 1 104 1 104 1 104 1 104 1	6 <7° 6 <7° 7 <7° 6 <7° 7 <7°	1 - 3a 1 - 3a	1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Clay, Clay, Clay, Clay, Clay, Clay, Clay,	y, Silt and S Clay, Silt, S y, Silt and S Clay, Silt, S	nc Windsor nc Windsor nc Windsor nc Windsor nc Windsor nc Windsor	Windsor Windsor Windsor Windsor Windsor	Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa Heavy Clay Loa		Slightly st Slightly st Slightly st Slightly st Slightly st Slightly st Slightly st	1 3b 1 3b 1 3b 1 3b 1 3b	-4 -4 -4 -4 -4 -4 -4	3a 3a 3a 3a 3a 3a 3a 3a	-25 3a -25 3a -25 3a -25 3a -25 3a -25 3a -25 3a	1 1 1 1 1 1 1	3b 3b 3b 3b 3b 3b 3b 3b	3 3 3 3 3 3 3 3 3	Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV)	Hedge relocation
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TQ28 TQ8262 229 562528.03 182423.32 TQ28 TQ8262 230 562228.03 182323.32 TQ28 TQ8262 231 562328.03 182323.32 TQ28 TQ8262 232 562328.03 182323.32 TQ28 TQ8262 233 562328.03 182223.32 TQ28 TQ8262 235 562328.03 182223.32 TQ28 TQ8262 235 562328.03 182223.32 TQ28 TQ8262 235 562528.03 182223.32 TQ28 TQ8262 235 562528.03 182123.32 TQ28 TQ8262 235 562328.03 182123.32 TQ28 TQ8262 235 562328.03 182123.32 TQ28 TQ8262 236 562328.03 182123.32 TQ28 TQ8262 239 562328.03 182123.32	CER CER CER CER CER	656 1490 126 124 656 1490 126 124	104 1 104 1 104 1 104 1 104 1 104 1 104 1 104 1 104 1 104 1	6 <7° 6 <7° 7 <7° 6 <7° 7 <7° 7 <7° 7 <7° 7 <7° 8 <7°	1 - 3a 1 - 3a	1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Clay, Clay,	y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, Silt, and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s, y, Silt and S Clay, Silt, s,	ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor ne Windsor	Windsor Windsor Windsor Windsor Windsor Windsor Windsor Windsor Windsor Windsor Windsor Windsor Windsor Windsor	Heavy Clay Loa Heavy Clay Loa		Slightly si Slightly si	1 3b 1 3b 1 3b 1 3b 1 3b 1 3b 1 3b 1 3b	-4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a	-25 3a -25 3a -25 3a -25 3a -25 3a -25 3a -25 3a -25 3a -25 3a -25 3a	1 1 1 1 1 1 1 1 1 1 1 1	3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV)	Hedge relocation

TQ28 TQ8162 243 562328.03 181923.32	CER	563 1480	0 125	123	103 1	11	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-3	За -	24 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8162 244 562428.03 181923.32	CER	563 1480	0 125	123	103 1	12	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S None	Windsor	Windsor	Heavy Clay Loa	ш	Slightly st	1 3b	-3	За -	24 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8162 245 562528.03 181923.32	CER	563 1480	0 125	123	103 1	12	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SClay, Silt, Sand	Windsor	Windsor	Heavy Clay Loa	Ш	Slightly st	1 3b	-3	За -	24 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8162 246 562328.03 181723.32	CER	563 1480	0 125	123	103 1	13	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SClay, Silt, Sand	Windsor	Windsor	Heavy Clay Loa	III	Slightly st	1 3b	-3	За -	24 3a	1	3b	3	Low (<= 20% BMV)	
TQ28 TQ8162 247 562224.06 181721.99	CER	563 1480	0 125	123	103 1	11	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Windsor	Windsor	Heavy Clay Loa		Slightly st	1 3b	-3		24 3a	1	3h	3	Low (<= 20% BMV)	
TO28 TO8164 248 564728.03 181659.83	CER	562 1462			102 1	30	-70	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	None	Fyfield 4	Fyfield	Sandy Loam		Stoneless	1 1	11	_	3 2	1	2	,	High (>60% BMV)	
	CER					29	-70	_				,,	CN		Fyfield		-	Stoneless		11	2	2 2	1	2	2	, , , , ,	
TQ28 TQ8164 249 564628.03 181648.72	CER				102 1	_	-</td <td>1 - 3a</td> <td>1 - 3a</td> <td>Flood Zone 1</td> <td>1 1</td> <td>Clay, Silt and</td> <td>SNone</td> <td>Fyfield 4</td> <td>,</td> <td>Sandy Loam</td> <td></td> <td></td> <td>1 1</td> <td>11</td> <td></td> <td>3 2</td> <td>1</td> <td></td> <td></td> <td>High (>60% BMV)</td> <td></td>	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Fyfield 4	,	Sandy Loam			1 1	11		3 2	1			High (>60% BMV)	
TQ28 TQ8164 250 564828.03 181648.72	CER	562 1462			102 1	30	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Fyfield 4	Fyfield	Sandy Loam		Stoneless	1 1	11	2	3 2	1	2	2	High (>60% BMV)	
TQ28 TQ8164 251 564928.03 181623.32	CER	_			102 1	30	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S None	Fyfield 4	Fyfield	Sandy Loam	1	Stoneless	1 1	11	2	3 2	1	2	2	High (>60% BMV)	
TQ28 TQ8164 252 564928.03 181523.32	CER	562 1462	2 124	121	102 1	31	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Fyfield 4	Fyfield	Sandy Loam	1	Stoneless	1 1	11	2 -	3 2	1	2	2	High (>60% BMV)	
TQ28 TQ8164 253 564956.6 181426.49	CER	562 1462	2 124	121	102 1	32	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Fyfield 4	Fyfield	Sandy Loam	ı	Stoneless	1 1	11	2	3 2	1	2	2	High (>60% BMV)	
TQ28 TQ8163 254 563228.03 181423.32	DCW	560 1475	5 125	123	102 1	24	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand and Gra	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	39	1	10 3a	1	Non Agricult	2	High (>60% BMV)	Deciduous woodland
TQ28 TQ8163 255 563139.14 181416.97	DCW	560 1475	5 125	123	102 1	23	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	39	1	10 3a	1	Non Agricult	2	High (>60% BMV)	Deciduous woodland
TQ28 TQ8165 256 565013.74 181323.32	CER	562 1462	2 124	121	102 1	32	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Fyfield 4	Fyfield	Sandy Loam	1	Stoneless	1 1	10	2 -	3 2	1	2	2	High (>60% BMV)	
TO28 TO8165 257 565128.03 181323.32	CER	562 1462			102 1	32	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay. Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	40	1	8 2	1	2	2	High (>60% BMV)	
TQ28 TQ8164 258 564828.03 181223.32	CER	562 1462			102 1	31	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	None	Fyfield 4	Fyfield	Sandy Loam		Stoneless	1 1	11	,	3 2	1	2	2	High (>60% BMV)	
TQ28 TQ8164 259 564928.03 181223.32	CER	562 1462			102 1	20	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	None	Fyfield 4	Fyfield	Sandy Loam		Stoneless	1 1	11	,	2 2	1	2	,	High (>60% BMV)	
	-					29					1 1		SNOTE		.,		_		1 1	11			1				
TQ28 TQ8164 260 564528.03 181123.32	CER	562 1462			102 1	32	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Fyfield 4	Fyfield	Sandy Loam	_	Stoneless	1 1	11	2	3 2	1	2	2	High (>60% BMV)	
TQ28 TQ8164 261 564228.03 181023.32	CER	562 1462			102 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	13		28 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8164 262 564328.03 181023.32	CER	562 1462			102 1	29	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	13	За -	28 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8164 263 564428.03 181023.32	CER	562 1462			102 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S Clay, Silt, Sand	Fyfield 4	Fyfield	Sandy Loam		Stoneless	1 1	11	2	3 2	1	2	2	High (>60% BMV)	
TQ28 TQ8064 264 564028.03 180923.32	CER	551 1472			100 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	3		30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8064 265 564128.03 180923.32	CER	551 1472	2 126	124	100 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	3	За -	30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8064 266 564828.03 180923.32	CER	551 1472	2 126	124	100 1	36	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	3	3a -	30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8064 267 564928.03 180923.32	CER	551 1472	2 126	124	100 1	35	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	3	3a -	30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8062 268 562728.03 180823.32	SCR	564 1469			102 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	5		27 3a	1	Non Agricult	2	High (>60% BMV)	Land adjacent to A13
TO28 TO8064 269 564528.03 180823.32	ОТН	551 1472	2 126	124	100 1	28	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay. Silt and	S Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	3	За -	30 3b	1	Non Agricult	2	High (>60% BMV)	Land adjacent to A13
TQ28 TQ8064 270 564628.03 180823.32	CFR	551 1472			100 1	30	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	None S	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderati	1 1	3		30 3b	1	3h	2	High (>60% BMV)	
TQ28 TQ8064 271 564728.03 180823.32	CER	551 1472			100 1	34	-70	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	2		30 3b	1	2h	2	High (>60% BMV)	
	CER	564 1469			100 1	22	.70	1 - 3a	1 - 3a			Clay, Silt and	SNOILE	Hucklesbrook	Hucklesbrook			Moderate		5		27 3a		SU	2	High (>60% BMV)	Land adjacent to A13
	SCR				_	23	<7°			Flood Zone 1	1 1	,,	SNone			Sandy Loam	_		1 1	5			1	Non Agricult	2	, , , ,	Land adjacent to A13
TQ28 TQ8064 273 564428.03 180723.32	CER	551 1472			100 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and		Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderati	1 1	3		30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8064 274 564528.03 180723.32	CER	551 1472			100 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	3		30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8064 275 564242.31 180637.6	CER	551 1472			100 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	3		30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8062 276 562828.03 180623.32	OTH	564 1469	9 124	121	102 1	23	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	5	За -	27 3a	1	Non Agricult	2	High (>60% BMV)	Land adjacent to A13
TQ28 TQ8062 277 562928.03 180623.32	OTH	564 1469	9 124	121	102 1	22	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	S None	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	3	За -	30 3b	1	Non Agricult	2	High (>60% BMV)	Land adjacent to A13
TQ28 TQ8063 278 563028.03 180623.32	ОТН	557 1470	0 125	123	101 1	22	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	4	За -	29 3a	1	Non Agricult	2	High (>60% BMV)	Land adjacent to A13
TQ28 TQ8062 279 562928.03 180523.32	ОТН	564 1469	9 124	121	102 1	22	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	5	За -	27 3a	1	Non Agricult	2	High (>60% BMV)	Land adjacent to A13
TQ28 TQ8063 280 563028.03 180523.32	CER	557 1470	0 125	123	101 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SSand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	4	За -	29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8063 281 563128.03 180523.32	SCR	557 1470	0 125		101 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	4	3a -	29 3a	1	3a	2	High (>60% BMV)	Land adjacent to A13
TQ28 TQ8064 282 564428.03 180523.32	CER	551 1472			100 1	23	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	3		30 3b	1	3h	2	High (>60% BMV)	
TO28 TO8064 283 564894.69 180424.9	CER	551 1472			100 1	21	-70	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	2		30 3b	1	2h	2	High (>60% BMV)	
TO28 TO8062 284 562928.03 180423.32	CER	564 1469			102 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderati		,		27 3a	1	30	2	High (>60% BMV)	
	CER					26	</td <td></td> <td></td> <td></td> <td>1 1</td> <td>,,</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>1 1</td> <td>5</td> <td>_</td> <td></td> <td>1</td> <td>3a</td> <td></td> <td></td> <td></td>				1 1	,,					_		1 1	5	_		1	3a			
TQ28 TQ8063 285 563028.03 180423.32	CER	557 1470			101 1	26	-</td <td>1 - 3a</td> <td>1 - 3a</td> <td>Flood Zone 1</td> <td>1 1</td> <td>Clay, Silt and</td> <td>Sand and Grav</td> <td>Hucklesbrook</td> <td>Hucklesbrook</td> <td>Sandy Loam</td> <td>_</td> <td>Moderate</td> <td>1 1</td> <td>4</td> <td></td> <td>29 3a</td> <td>1</td> <td>3a</td> <td>2</td> <td>High (>60% BMV)</td> <td></td>	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	_	Moderate	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8063 286 563128.03 180423.32	CER	557 1470			101 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8063 287 563228.03 180423.32	CER	557 1470			101 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderati	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8063 288 564445.49 180421.73	CER	557 1470			101 1	23	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderati	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8063 289 563028.03 180323.32	CER	557 1470			101 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	4		29 3a	1	3a	Urban	High (>60% BMV)	
TQ28 TQ8063 290 563128.03 180323.32	CER	557 1470	0 125	123	101 1	26	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8063 291 563228.03 180323.32	CER	557 1470	0 125	123	101 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	4	За -	29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8065 292 563328.03 180323.32	CER	557 1470	0 125	123	101 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	4	За -	29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8065 293 565028.03 180323.32	CER	556 1462	2 125	122	101 1	21	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	4	За -	29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8065 294 565328.03 180323.32	DCW	556 1462			101 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	SNone	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	4	3a -	29 3a	1	Non Agricult	2	High (>60% BMV)	Deciduous woodland
TQ28 TQ8065 295 565028.03 180223.32	CER	556 1462			101 1	19	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8065 296 565128.03 180223.32	CER	556 1462			101 1	19	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8065 297 565228.03 180223.32	CER	556 1462			101 1	20	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	4		29 3a	Ī	За	2	High (>60% BMV)	
TQ28 TQ8063 298 563828.03 180123.32	OTH	557 1470			101 1	20	-70	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam Sandy Loam	\vdash	Moderati	- 1-	1		29 3a	1	22	,	High (>60% BMV)	Residential
	CFR					25	<7				1 1									4		_	1	3d 2-	2		nesidential
TQ28 TQ8063 299 563928.03 180123.32		557 1470			101 1	25	<7"	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	. 1	4		29 3a	1	5â	2	High (>60% BMV)	
TQ28 TQ8064 300 564028.03 180123.32	CER	551 1472			100 1	24	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	3		30 3b	1	30	2	High (>60% BMV)	
TQ28 TQ8065 301 565428.03 180123.32	SCR	556 1462			101 1	17	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderati	1 1	4		29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8064 302 564128.03 180118.55	CER	551 1472			100 1	24	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	3		30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8063 303 563828.03 180023.32	SCR	557 1470	0 125	123	101 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	4		29 3a	1	Non Agricult	2	High (>60% BMV)	
TQ28 TQ8063 304 563928.03 180023.32	CER	557 1470	0 125	123	101 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	4	За -	29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8064 305 564028.03 180023.32	CER	551 1472	2 126	124	100 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	3	За -	30 3b	1	3b	2	High (>60% BMV)	
		551 1472	2 126	124	100 1	25	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	3	3a -	30 3b	1	3b	2	High (>60% BMV)	
TQ28 TQ8064 306 564128.03 180023.32	CER	331 14/2																									
TQ28 TQ8064 306 564128.03 180023.32 TQ28 TQ8064 307 564228.03 180023.32	CER	551 1472	2 126		100 1	24	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	3	За -	30 3b	1	3b	2	High (>60% BMV)	
	CEIN	551 1472		124	100 1 101 1	24 19	<7°	1 - 3a 1 - 3a	1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1	1 1	Sand Sand	Sand and Grav	Hucklesbrook Hucklesbrook	Hucklesbrook Hucklesbrook	Sandy Loam Sandy Loam		Moderate:	1 1	3		30 3b 29 3a	1	3b 3a	2	High (>60% BMV)	

TQ28 TQ8065 309 565628.03 180023.32	CER	556 1462 125	122 101	1	17 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	. 1	4	3a	29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8065 310 565728.03 180023.32	CER	556 1462 125	122 101	1	15 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	. 1	4	3a	29 3a	1	3a	2	High (>60% BMV)	
TQ28 TQ8065 311 565828.03 180018.55	CER	556 1462 125	122 101	1	16 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Clay, Silt and	None	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	. 1	4	За -	29 3a	1	3a	2	High (>60% BMV)	
TO28 TO8064 312 564428.03 180007.44	CER	551 1472 126		1	24 <7°		1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate1	1	,		30 3b	1	2h	2	High (>60% BMV)	
	CER				22 <7°	_				Sand	Sand and Grav	Hucklesbrook	Hucklesbrook		:	Moderati 1		-		30 3b	-	26	2	, , , ,	
TQ27 TQ7965 313 565628.03 179923.32	_						1 - 3a	Flood Zone 1	1 1					Sandy Loam	-		. 1	3		_	1	30	2	High (>60% BMV)	
TQ27 TQ7965 314 565728.03 179923.32	CER	549 1474 126		1	20 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrool	Sandy Loam	I	Moderate 1	. 1	3		30 3b	1	3b	2	High (>60% BMV)	
TQ27 TQ7965 315 565828.03 179923.32	CER	549 1474 126		1	L7 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate 1	. 1	3		30 3b	1	3b	2	High (>60% BMV)	
TQ27 TQ7965 316 565928.03 179923.32	CER	549 1474 126	124 102	1	L4 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	1	3	3a	30 3b	1	3b	2	High (>60% BMV)	
TQ27 TQ7966 317 566028.03 179923.32	CER	549 1484 127	126 101	1	13 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	1	10	2	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7965 318 565828.03 179823.32	CER	549 1474 126	124 102	1	19 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	1	3	3a	30 3b	1	3b	2	High (>60% BMV)	
TO27 TO7965 319 565928.03 179823.32	CER	549 1474 126	124 102	1	17 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Huckleshrook	Hucklesbrook	Sandy Loam		Moderati 1	1	3		30 3b	1	3h	2	High (>60% BMV)	
TQ27 TQ7966 320 566028.03 179823.32	CED	549 1484 127	126 101		14 .70	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	- 1	10	2	24 3a	1	70	,	High (>60% BMV)	
TQ27 TQ7966 321 566128.03 179823.32	CER	549 1484 127		1	13 <7°					Sand		Hucklesbrook	Hucklesbrook	 		Moderati 1		10		24 3a		od .	_	0 , ,	
	CER						1 - 3a	Flood Zone 1	1 1		Clay, Silt, Sand			Sandy Loam	-		. 1	10			1	3a	2	High (>60% BMV)	
TQ27 TQ7966 322 566328.03 179823.32	SCR	549 1484 127			32 <7°		1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam	_	Moderate 1	. 1	10		24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7963 323 563837.55 179748.72	OTH	557 1467 125		1	27 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrool	Sandy Loam	ı	Moderate 1	. 1	4		28 3a	1	Non Agricult	2	High (>60% BMV)	Road - A1089
TQ27 TQ7965 324 565928.03 179723.32	CER	549 1474 126	124 102	1	15 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	. 1	3	3a	30 3b	1	3b	2	High (>60% BMV)	
TQ27 TQ7966 325 566028.03 179723.32	CER	549 1484 127	126 101	1	12 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	. 1	10	2	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 326 566128.03 179723.32	CER	549 1484 127	126 101	1	10 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	. 1	10	2	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 327 566228.03 179723.32	CER	549 1484 127	126 101	1	16 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate1	. 1	10	2	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 328 566328.03 179723.32	CER	549 1484 127		1	13 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Huckleshrool	Sandy Loam		Moderate 1	1	10		24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7963 329 563851.84 179628.08	SCB	557 1467 125		1	26 -70	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate 1	1	4		28 3a	Í,	Non Agricult	Urban	High (>60% BMV)	Roadside wooded bank/verge - A1089
	CER			-	26 <7°				4 L					 	\vdash		- 1	40		_	1	a-	OLDGII		modusae wooded bank/verge - A1009
	CLI			-			1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam	\vdash	Moderati 1	1	10		24 3a	1	5â		High (>60% BMV)	<u> </u>
TQ27 TQ7966 331 566228.03 179623.32	CER	549 1484 127			L4 <7°	_	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate 1	. 1	10	-	24 3a	1	За	2	High (>60% BMV)	
TQ27 TQ7966 332 566328.03 179623.32	CER	549 1484 127		1	20 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	. 1	10	_	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 333 566428.03 179623.32	CER	549 1484 127		1	12 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	. 1	10		24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 334 566928.03 179623.32	SCR	549 1484 127	126 101	1	21 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	1	10	2	24 3a	1	Non Agricult	Non Agricult	High (>60% BMV)	Scrub south of Tarmac Linford Quarry
TQ27 TQ7966 335 566228.03 179523.32	CER	549 1484 127	126 101	1	9 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	1	10	2	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 336 566328.03 179523.32	CER	549 1484 127		1	10 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate 1	1	10	2	24 3a	1	За	2	High (>60% BMV)	
TQ27 TQ7966 337 566428.03 179523.32	CER	549 1484 127		1 1	2 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Huckleshrook	Huckleshrool	Sandy Loam		Moderate1	1	10		24 3a	1	32	2	High (>60% BMV)	
TQ27 TQ7966 338 566528.03 179523.32	LEY	549 1484 127		-	.70	1 - 3a	1 - 3a	Flood Zone 1		Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	:	Moderate 1		10		24 3a	-	2-	2	High (>60% BMV)	
	LEY			1	11 </td <td></td> <td></td> <td></td> <td>1 1</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>-</td> <td></td> <td>. 1</td> <td>10</td> <td></td> <td></td> <td>1</td> <td>3a</td> <td>2</td> <td>0 , ,</td> <td>Scrub south of Tarmac Linford Quarry</td>				1 1					1	-		. 1	10			1	3a	2	0 , ,	Scrub south of Tarmac Linford Quarry
TQ27 TQ7966 339 566928.03 179523.32	SCR	549 1484 127			L7 <7°	_	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam	_	Moderate 1	. 1	10	-	24 3a	1	Non Agricult	2	High (>60% BMV)	Scrub south of Tarmac Linford Quarry
TQ27 TQ7966 340 566328.03 179423.32	CER	549 1484 127	126 101	1	10 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	. 1	10	_	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 341 566428.03 179423.32	CER	549 1484 127	126 101	1	3 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	1	10	2	24 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7966 342 566528.03 179423.32	DCW	549 1484 127	126 101	1	5 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam	1	Moderate 1	1	10	2	24 3a	1	Non Agricult	2	High (>60% BMV)	Deciduous woodland - near lake
						1 - 3a			1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrool	Sandy Loam		Moderate 1	1	10	2	24 3a	1	Non Agricult	2	High (>60% BMV)	Deciduous woodland - near lake
TQ27 TQ7966 343 566628.03 179423.32	SCR	549 1484 127	126 101	1	5 <7°	1 - 3a	1 - 3a	Flood Zone 1										_	_						
						_			1 1			Huckleshrook	Hucklesbrook	Sandy Loam		Moderate 1	1	10	2	24 3a	1	За	2	, , , ,	
TQ27 TQ7966 344 566928.03 179423.32	SCR	549 1484 127	126 101	1	13 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam			1	10		24 3a	1	3a	2	High (>60% BMV)	
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TQ27 TQ7867 377 567028.03 178823.32	CFR	552 1493 128 127 101	1	10 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9	2	-25 3a	1	За	2	High (>60% BMV)	
TQ27 TQ7867 378 567228.03 178823.32	CER	552 1493 128 127 101	1 1	7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1		2	-25 3a	1	22	,	High (>60% BMV)	
TQ27 TQ7866 379 566528.03 178723.32	CER	554 1483 127 125 100	1	, ., 18 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Fyfield 4	Fyfield	Sandy Loam		Stoneless	1 1	7	2	-7 2	1,	2	2	High (>60% BMV)	
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TQ27 TQ7867 381 567128.03 178723.32	CER	552 1493 128 127 101	_	10 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7867 382 567228.03 178723.32	CER	552 1493 128 127 101	1	9 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	I	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7866 383 566328.03 178623.32	CER	554 1483 127 125 100	1	22 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	I	Moderate	1 1	10	2	-23 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7866 384 566428.03 178623.32	CER	554 1483 127 125 100	1	19 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Fyfield 4	Fyfield	Sandy Loam	I	Stoneless	1 1	7	2	-7 2	1	2	2	High (>60% BMV)	
TQ27 TQ7866 385 566928.03 178623.32	CER	554 1483 127 125 100	1	11 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	I	Moderate	1 1	10	2	-23 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7867 386 567028.03 178623.32	CER	552 1493 128 127 101	1	l1 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7867 387 567128.03 178623.32	CER	552 1493 128 127 101		10 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	_	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
TO27 TO7867 388 567328.03 178623.32	CFR	552 1493 128 127 101	1 :	3 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9	2	-25 3a	1	За	2	High (>60% BMV)	
TQ27 TQ7866 389 566428.03 178523.32	CER	554 1483 127 125 100	1	18 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Fyfield 4	Evfield	Sandy Loam		Stoneless	1 1	7	2	-7 2	1	2	2	High (>60% BMV)	
TQ27 TQ7866 390 566528.03 178523.32	CER	554 1483 127 125 100	1	15 470	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Fyfield 4	Fyfield	Sandy Loam	: -	Ctonologe		1,	2	7 2	+	2	2	High (>60% BMV)	
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TQ27 TQ7866 392 566728.03 178523.32	CER	554 1483 127 125 100	1	13 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Fyfield 4	Fyfield	Sandy Loam	1	Stoneless	1 1	7	2	-7 2	1	2	2	High (>60% BMV)	
TQ27 TQ7867 393 567028.03 178523.32	CER	552 1493 128 127 101	-	11 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	I	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
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TQ27 TQ7867 395 567228.03 178523.32	CER	552 1493 128 127 101	1	<7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7867 396 567328.03 178523.32	CER	552 1493 128 127 101	1	3 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7867 397 567428.03 178523.32	CER	552 1493 128 127 101	1	7 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7866 398 566428.03 178423.32	CER	554 1483 127 125 100	1	17 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	10	2	-23 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7866 399 566528.03 178423.32	CER	554 1483 127 125 100	1	14 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	,	Moderate	1 1	10	2	-23 3a	1	3a	2	High (>60% BMV)	
TO27 TO7866 400 566628.03 178423.32	CFR	554 1483 127 125 100	1	13 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	10	2	-23 3a	1	32	2	High (>60% BMV)	
TQ27 TQ7866 401 566728.03 178423.32	CER	554 1483 127 125 100		12 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Gray	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	10	2	-23 3a	1	23	2	High (>60% BMV)	
TQ27 TQ7866 402 566828.03 178423.32	CER	554 1483 127 125 100		12 (7	1 - 3a	1 - 3a	Flood Zone 1		Sand	Sand and Grav	Hucklesbrook	Hucklesbrook		:	Moderate		10	2	-23 3a		3d 2-	2	High (>60% BMV)	
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TQ27 TQ7867 404 567128.03 178423.32	CER	552 1493 128 127 101		10 17	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
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TQ27 TQ7867 407 567032.79 178324.9	CER	552 1493 128 127 101	1	11 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	I	Moderate	1 1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
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17.77 17.7	TQ27 TQ7768 472 568828.03 177723.32	CER	556 1495 128	127 100	1 3	<7°	1 - 3a	1 - 3a	Flood Zone 3	1 Poss	ib Sand, Silt and	Clay, Silty, Pea	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1	9	2	-25 3a	1	3a	2	High (>60% BMV)	
Total Fig. Section	TQ27 TQ7768 473 568928.03 177723.32	CER	556 1495 128	127 100	1 2	? <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Poss	b Sand, Silt and	Clay, Silty, Pea	Wallasea 1	Wallasea	Silty Clay	Ш	Stoneless	L 3b	-7	3a	-31 3b	1	3b	2	Low (<= 20% BMV)	
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No. No.	TQ27 TQ7766 476 566628.03 177623.32	CER	555 1494 128	126 102	1 9	9 <7°	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	1	За	-32 3b	1	3b	3	High (>60% BMV)	
No. No.	TO27 TO7767 477 567428.03 177623.32	CER	556 1495 128		1 5	5 <7°	1 - 3a	1 - 3a	Flood Zone 3	1 Poss	b Sand	Clav. Silt. Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	1	3a	-33 3b	1	3b	2	High (>60% BMV)	
Page Page	-	CER			_	-	_	1 - 22		1 1	Sand		Huckleshrook	Huckleshrook	Sandy Loam		Moderate	1 1	1	3a		1	3h	2		
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Total Tota	TQ27 TQ7767 481 567828.03 177623.32 TQ27 TQ7768 482 568728.03 177623.32	CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128	127 100 127 100 127 100 127 100	1 7 1 9 1 1	3 <7° 13 <7°	1 - 3a 1 - 3a 1 - 3a 1 - 3a	1 - 3a 1 - 3a 1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3	1 1 1 1 1 1 1 1 Poss	Sand Sand Sand, Silt and	Clay, Silt, Sand Sand and Grav Clay and Silt	Hucklesbrook Hucklesbrook Hucklesbrook	Hucklesbrook Hucklesbrook Hucklesbrook	Sandy Loam Sandy Loam		Moderate Moderate Moderate	l 1 l 1	1 9	3a 3a 2	-33 3b -33 3b -25 3a	1 1 1	3b 3b 3a	2 2 2	High (>60% BMV) High (>60% BMV) High (>60% BMV)	
Total Tota	TQ27 TQ7767 481 567828.03 177623.32 TQ27 TQ7768 482 568728.03 177623.32 TQ27 TQ7768 483 568828.03 177623.32	CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128	127 100 127 100 127 100 127 100 127 100	1 7 1 9 1 1	3 <7° 13 <7° 3 <7°	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3	1 1 1 1 1 1 1 1 Poss 1 Poss	Sand Sand Ib Sand, Silt and Ib Sand, Silt and	Clay, Silt, Sand Sand and Grav Clay and Silt Clay, Silty, Pea	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook	Sandy Loam Sandy Loam Sandy Loam		Moderati Moderati Moderati Moderati	l 1 l 1 l 1	1 1 9	3a 3a 2	-33 3b -33 3b -25 3a -25 3a	1 1 1 1	3b 3b 3a 3a	2 2 2	High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV)	
To To To To To To To To	TQ27 TQ7767 481 567828.03 177623.32 TQ27 TQ7768 482 568728.03 177623.32 TQ27 TQ7768 483 568828.03 177623.32 TQ27 TQ7768 484 568928.03 177623.32	CER CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128	127 100 127 100 127 100 127 100 127 100 127 100	1 7 1 9 1 1 1 1 3 1 2 1 2	3 <7° 13 <7° 3 <7° 2 <7°	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3	1 1 1 1 1 1 1 1 1 Poss 1 Poss 1 Poss	Sand Sand Sand, Silt and Sand, Silt and Sand, Silt and	Clay, Silt, Sand Sand and Grav Clay and Silt Clay, Silty, Pea	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea	Sandy Loam Sandy Loam Sandy Loam Silty Clay		Moderate Moderate Moderate Moderate Stoneless	_	1 1 9 9	3a 3a 2 2 3a	-33 3b -33 3b -25 3a -25 3a -31 3b	1 1 1 1 1	3b 3b 3a 3a 3b	2 2 2 2	High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) Low (<= 20% BMV)	
Tright T	TQ27 TQ7767 481 567828.03 177623.23 TQ27 TQ7768 482 568728.03 177623.32 TQ27 TQ7768 483 568828.03 177623.32 TQ27 TQ7768 484 568928.03 177623.32 TQ27 TQ7769 485 569028.03 177623.32	CER CER CER CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128	: 127 100 : 127 100	1 7 1 9 1 1 1 1 3 1 2 1 2	3	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3	1 1 1 1 1 1 1 1 1 1 Poss 1 Pos	Sand Sand b Sand, Silt and b Sand, Silt and b Sand, Silt and b Sand, Silt and	Clay, Silt, Sand Sand and Grav Clay and Silt Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1	Hucklesbrook Hucklesbrook Hucklesbrook Wallasea Wallasea	Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay		Moderate Moderate Moderate Stoneless Stoneless	L 3b	1 9 9 -7	3a 3a 2 2 3a 3a	-33 3b -33 3b -25 3a -25 3a -31 3b -31 3b	1 1 1 1 1 1	3b 3b 3a 3a 3a 3b	2 2 2 2 2 3	High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) Low (<= 20% BMV) Low (<= 20% BMV)	
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TQ27 TQ776 49 S67528.03 177523.32 CER S56 1495 128 127 100 1 9 <7 1.3a 1.3a Flood Zone 1 1 1 Sand Clay, Silt, Sand Flucklesbrook Hucklesbrook Sandy, Laam I Moderat I 1 3a 33 3b 1 3b 2 High F-660k BAV/) TQ27 TQ776 49 S67628.03 177523.32 CER S56 1495 128 127 100 1 1 9 <7 1.3a 1.3a Flood Zone 1 1 1 Sand Clay, Silt, Sand Flucklesbrook Randy, Laam I Moderat I 1 1 3a 33 3b 1 3b 2 High F-660k BAV/) TQ27 TQ776 49 S67328.03 177523.32 CER S56 1495 128 127 100 1 1 0 <7 1.3a 1.3a Flood Zone 2 1 1 Sand Clay, Silt, Sand Flucklesbrook Randy, Laam I Moderat I 1 1 3a 33 3b 1 3b 2 High F-660k BAV/) TQ27 TQ776 49 S67328.03 177423.32 CER S56 1495 128 127 100 1 1 0 <7 1.3a 1.3a Flood Zone 2 1 Possak Sand Clay, Silt, Silt, Ped Wallasea 1 Wallasea Silt, Clay, Silt, Ped Wallasea 1 Wallasea Silt, Clay, Silt, Silt, Ped Wallasea 1 Wallasea Silt, Clay, Silt, Silt, Ped Wallasea 1 Wallasea Silt, Clay, Silt, Ped Wallasea 1 Wallasea Silt, Clay, Silt, Silt, Ped Wallasea Silt, Clay, Silt, Silt, Ped Wallasea 1 Wallasea Silt, Clay, Silt, Silt, Ped Wallasea Silt, Clay, Silt, Silt, Ped Wallasea Silt, Clay, Silt, Ped Wallasea Silt, Clay, Silt, Silt, Pe	TQ27 TQ7767 481 567828.03 177623.32 TQ27 TQ7768 482 568728.03 177623.32 TQ27 TQ7768 483 56828.03 177623.32 TQ27 TQ7768 484 568928.03 177623.32 TQ27 TQ7769 485 569928.03 177623.32 TQ27 TQ7766 486 566984.65 177607.44 TQ27 TQ7766 487 566528.03 177523.32	CER CER CER CER CER CER CER CER CER CER	556 1495 128 556 1494 128 555 1494 128	127 100 127 102	1 7 1 9 1 1 1 1 1 2 1 2 1 2 1 6 6	3	1 - 3a 1 - 3a	1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sand Sand Sand, Silt and ib Sand, Silt and ib Sand, Silt and ib Sand, Silt and ib Sand, Silt and ib Chalk Sand	Clay, Silt, Sand Sand and Grav Clay and Silt Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Sand	Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1 Wallasea 1 Hucklesbrook	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea Wallasea Hucklesbrook	Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay Silty Clay Sandy Loam		Moderate Moderate Moderate Stoneless Stoneless Stoneless Moderate	L 3b	1 1 9 9 -7 -7 -7	3a 3a 2 2 2 3a 3a 3a 3a	-33 3b -33 3b -25 3a -25 3a -31 3b -31 3b -31 3b -31 3b	1 1 1 1 1 1 1 1	3b 3b 3a 3a 3a 3b 3b 3b 3b	2 2 2 2 2 2 3 3 3	High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) High (>60% BMV) High (>60% BMV)	
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3a 1 - 3a</td><td>Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 2 Flood Zone 1 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2</td><td>1 1 1 1 1 1 1 1 1 Poss 1 1 Poss 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Sand Sand Sand, Silt and Sand Sand Sand Sand Sand Sand Sand S</td><td>Clay, Silt, Sanc Sand and Grav Clay and Silt Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silt, Sanc None Clay, Silt, Sanc Clay, Silt, Sanc Sand and Grav Clay, Silt, Sanc None</td><td>Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1 Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Hucklesbrook</td><td>Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea Wallasea Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea Hucklesbrook</td><td>Sandy Loam Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay Silty Clay Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam</td><td></td><td>Moderati Moderati Moderati Stoneless Stoneless Moderati M</td><td>L 3b</td><td>1 1 9 9 -7 -7 -7 1 1 1 1 1 1 1</td><td>3a 3a 2 2 2 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a</td><td>-33 3b -25 3a -25 3a -25 3a -31 3b -31 3b -32 3b -32 3b -33 3b</td><td></td><td>3b 3b 3a 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b</td><td>2 2 2 2 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2</td><td>High (>60% BMV) High >60% BMV) High >60% BMV) High >60% BMV) High >60% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) High >60% BMV)</td><td>Possible restored gravel pit</td></t<>	CER CER CER CER CER CER CER CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 555 1494 128 555 1494 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128	127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 126 102 126 102 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100	1 77 1 9 9 1 1 1 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1	3	1 · 3a 1 · 3a	1 - 3a 1 - 3a	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 2 Flood Zone 1 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2 Flood Zone 2	1 1 1 1 1 1 1 1 1 Poss 1 1 Poss 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sand Sand Sand, Silt and Sand Sand Sand Sand Sand Sand Sand S	Clay, Silt, Sanc Sand and Grav Clay and Silt Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silt, Sanc None Clay, Silt, Sanc Clay, Silt, Sanc Sand and Grav Clay, Silt, Sanc None	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1 Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Hucklesbrook	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea Wallasea Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea Hucklesbrook	Sandy Loam Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay Silty Clay Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sandy Loam		Moderati Moderati Moderati Stoneless Stoneless Moderati M	L 3b	1 1 9 9 -7 -7 -7 1 1 1 1 1 1 1	3a 3a 2 2 2 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a	-33 3b -25 3a -25 3a -25 3a -31 3b -31 3b -32 3b -32 3b -33 3b		3b 3b 3a 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b 3b	2 2 2 2 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2	High (>60% BMV) High >60% BMV) High >60% BMV) High >60% BMV) High >60% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) High >60% BMV)	Possible restored gravel pit
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TQ27 TQ7768 505 568028.03 177223.22 CER 505 1495 128 127 100 1 14 <7" 1-3a 1-3a Flood Zone 1 1 1 Sand Sand and Graw Huckleisbrook Huckleisbrook Huckleisbrook Sandy Loam 1 1 1 9 2 2 5 3a 1 3a 2 High (-60% BMV)	TQ27 TQ7767 481 567828.03 177623.32 TQ27 TQ7768 482 568728.03 177623.32 TQ27 TQ7768 483 568828.03 177623.32 TQ27 TQ7766 485 568928.03 177623.32 TQ27 TQ7766 485 569028.03 177623.32 TQ27 TQ7766 485 566928.03 177523.32 TQ27 TQ7766 487 566528.03 177523.32 TQ27 TQ7767 489 567428.03 177523.32 TQ27 TQ7767 490 567528.03 177523.32 TQ27 TQ7767 490 567528.03 177523.32 TQ27 TQ7767 490 567528.03 177523.32 TQ27 TQ7767 491 567628.03 177423.32 TQ27 TQ7767 492 56728.03 177423.32 TQ27 TQ7767 494 567328.03 177423.32 TQ27 TQ7767 496 <	CER CER CER CER CER CER CER CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 555 1494 128 555 1494 128 555 1494 128 555 1494 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 555 1494 128 556 1495	127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 126 102 126 102 127 100	1	1	1-3a 1-3a 1-3a 1-3a 1-3a 1-3a 1-3a 1-3a	1 - 3a 1 -	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 2 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sand Sand Sand Sand Sand, Silt and Sand Sand Sand Sand Sand Sand Sand S	Clay, Silt, Sanc Sand and Grav Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silt, Sanc Clay, Silt, Sanc Sand and Grav Silty, Pea Clay, Silt, Sanc Sand and Grav Sand and Grav	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1 Hucklesbrook	Hucklesbrooi Hucklesbrooi Hucklesbrooi Hucklesbrooi Wallasea Wallasea Hucklesbrooi	Sandy Loam Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay Silty Clay Sandy Loam		Moderat Modera	L 3b	1 1 9 9 -7 -7 -7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3a 3a 2 2 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a			3b 3b 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c	2 2 2 2 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2	High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) High (>60% BMV)	Possible restored gravel pit
	T027 T07767 481 567828.03 177623.32 T027 T07768 482 568728.03 177623.32 T027 TQ7768 483 568828.03 177623.32 T027 TQ7766 485 569028.03 177623.32 T027 TQ7766 485 569028.03 177623.32 T027 TQ7766 485 566928.03 177523.32 T027 TQ7766 488 566928.03 177523.32 T027 TQ7767 489 56728.03 177523.32 T027 TQ7767 499 56728.03 177523.32 T027 TQ7767 490 56728.03 177523.32 T027 TQ7767 491 56728.03 177423.32 T027 TQ7767 492 56728.03 177423.32 T027 TQ7767 493 56628.03 177423.32 T027 TQ7767 495 56728.03 177423.32 T027 TQ7767 496 567	CER CER CER CER CER CER CER CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 555 1494 128 555 1494 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495	127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 128 102 126 102 127 100	1	1	1-3a 1-3a	1 · 3a 1	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sand Sand Sand Sand, Silt and Sand Sand Sand Sand Sand Sand Sand S	Clay, Silt, Sanc Sand and Grav Clay and Silt Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silt, Sanc Clay, Silt, Sanc Sand and Grav Clay, Silt, Sanc Sand and Grav Clay, Silt, Sanc Sand and Grav Sand and Grav	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1 Hucklesbrook Wallasea 1 Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook	Hucklesbrooi Hucklesbrooi Hucklesbrooi Hucklesbrooi Hucklesbrooi Wallasea Wallasea Hucklesbrooi	Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay Silty Clay Silty Clay Sandy Loam		Moderat Modera	L 3b	1 1 9 9 -7 -7 -7 1 1 1 1 1 1 1 1 1 1 1 1 9 9 -7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3a 3a 2 2 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a			3b 3b 3a 3a 3a 3b 3b 3b 3b 3b 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c	2 2 2 2 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2	High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) Low (<= 20% BMV) Low (<= 20% BMV) Low (<= 20% BMV) High (>60% BMV)	Possible restored gravel pit
T027 T027768 506 568128.03 177223.32 CER S56 1495 128 127 100 1 14 47° 1-3a 1-3a Flood Zone 1 1 Sand Sand and Gray Hucklesbrook Hucklesbrook Gandy Loam I Moderat 1 1 9 2 25 3a 1 3a 2 High (-60% BMV)	TQ27 TQ7767 481 567828.03 177623.32 TQ27 TQ7768 482 568728.03 177623.32 TQ27 TQ7768 483 568828.03 177623.32 TQ27 TQ7766 485 569028.03 177623.32 TQ27 TQ7766 485 569028.03 177623.32 TQ27 TQ7766 487 566528.03 177523.32 TQ27 TQ7766 487 566528.03 177523.32 TQ27 TQ7767 489 567428.03 177523.32 TQ27 TQ7767 489 56728.03 177523.32 TQ27 TQ7767 490 567528.03 177523.32 TQ27 TQ7767 491 567628.03 177523.32 TQ27 TQ7766 493 56628.03 177423.32 TQ27 TQ7767 495 56728.03 177423.32 TQ27 TQ7767 495 56728.03 177423.32 TQ27 TQ7767 495	CER CER CER CER CER CER CER CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 555 1494 128 555 1494 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 555 1494 128 556 1495	127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 128 102 126 102 127 100	1	1	1-3a 1-3a 1-3a 1-3a 1-3a 1-3a 1-3a 1-3a	1 - 3a 1 -	Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 1 Flood Zone 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sand Sand Sand Sand, Silt and Sand Sand Sand Sand Sand Sand Sand S	Clay, Silt, Sanc Sand and Grav Clay and Silt Clay and Silt Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silt, Sanc Clay, Silty, Pea	Hucklesbrook Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1 Wallasea 1 Hucklesbrook	Hucklesbrooi Hucklesbrooi Hucklesbrooi Hucklesbrooi Hucklesbrooi Wallasea Wallasea Wallasea Hucklesbrooi	Sandy Loam Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay Silty Clay Sindy Loam Sandy Loam		Moderat Modera	L 3b	1 1 9 9 -7 -7 -7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3			3b 3b 3c 3c 3a 3a 3b 3b 3b 3b 3b 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c	2 2 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2	High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) High (>60% BMV) LOW (<= 20% BMV) LOW (<= 20% BMV) LOW (<= 20% BMV) High (>60% BMV)	Possible restored gravel pit
	TQ27 TQ7767 481 567828.03 177623.32 TQ27 TQ7768 482 568728.03 177623.32 TQ27 TQ7768 483 568828.03 177623.32 TQ27 TQ7766 485 568028.03 177623.32 TQ27 TQ7766 485 569028.03 177623.32 TQ27 TQ7766 487 56628.03 177523.32 TQ27 TQ7766 487 56628.03 177523.32 TQ27 TQ7767 489 56728.03 177523.32 TQ27 TQ7767 489 56728.03 177523.32 TQ27 TQ7767 489 56728.03 177523.32 TQ27 TQ7767 491 56728.03 177523.32 TQ27 TQ7767 492 56728.03 177423.32 TQ27 TQ7767 493 56628.03 177423.32 TQ27 TQ7767 495 56728.03 177423.32 TQ27 TQ7767 495 56728	CER CER CER CER CER CER CER CER CER CER	556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 555 1494 128 555 1494 128 555 1494 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495 128 556 1495	127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 127 100 128 102 126 102 127 100	1	1	1-3a 1-3a	1 · 3a 1	Flood Zone 1 Flood Zone 1 Flood Zone 1 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 3 Flood Zone 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sand Sand Sand Sand Sand, Silt and Sand Sand Sand Sand Sand Sand Sand S	Clay, Silt, Sanc Sand and Grav Clay and Silt Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Pea Clay, Silty, Sanc Clay, Silt, Sanc Sand and Grav Silt, Sanc Sand and Grav	Hucklesbrook Hucklesbrook Hucklesbrook Wallasea 1 Wallasea 1 Wallasea 1 Hucklesbrook	Hucklesbroot Hucklesbroot Hucklesbroot Hucklesbroot Hucklesbroot Wallasea Wallasea Hucklesbroot	Sandy Loam Sandy Loam Sandy Loam Sandy Loam Silty Clay Silty Clay Silty Clay Sandy Loam		Moderat, Mod	L 3b	1 1 9 9 -7 -7 -7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3a 3			3b 3b 3c 3a 3a 3a 3a 3b 3b 3b 3b 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c 3c	2 2 2 2 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2	High (-60% BMV) High (-60% BMV) High (-60% BMV) High (-60% BMV) High (-60% BMV) Low (<= 20% BMV) Low (<= 20% BMV) High (-60% BMV)	Possible restored gravel pit

TQ27 TQ7768 507 568228.03 177223.32	CER	556 1495 1	28 127 10	0 1	14 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	9	2	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 508 568328.03 177223.32	CER	556 1495 1	28 127 10	0 1	14 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	9	2	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 509 568428.03 177223.32	CER	556 1495 1	28 127 10	0 1	13 <7"	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9	2	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 510 568528.03 177223.32	CER	556 1495 1	28 127 10	0 1	12 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9	2 -	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7767 511 567912.15 177153.74	CER	556 1495 1	28 127 10	0 1	9 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	1		33 3b	1	3h	2	High (>60% BMV)	
TO27 TO7767 512 567342.58 177129.93	DCW	556 1495 1			2 475	1 - 3a	1 - 3a	Flood Zone 3	1 0	sib Chalk	""Clav. Silty. P	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate		1		33 3b	Ī.	Non Agricult	,	High (>60% BMV)	Deciduous woodland
	DCVV				12 <7				1 POS									-		_		NOII AGIICUIL	3	, , , ,	Decidadas Woodidiid
TQ27 TQ7768 513 568028.03 177123.32	CER		28 127 10			1 30	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9		25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 514 568128.03 177123.32	CER		28 127 10		11 <7		1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9		25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 515 568228.03 177123.32	CER	556 1495 1	28 127 10	0 1	12 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Sand and Grav	Hucklesbrook	Hucklesbrook	Sandy Loam	_	Moderate	1 1	9	2 -	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 516 568328.03 177123.32	CER	556 1495 1	28 127 10	0 1	12 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9	2	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 517 568428.03 177123.32	CER	556 1495 1	28 127 10	0 1	11 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	None	Hucklesbrook	Hucklesbrook	Sandy Loam	1	Moderate	1 1	9	2	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 518 568528.03 177123.32	CER	556 1495 1	28 127 10	0 1	10 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand	Clav. Silt. Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9	2 -	25 3a	1	3a	2	High (>60% BMV)	
TO27 TO7768 519 568628.03 177123.32	CER	556 1495 1	28 127 10	0 1	8 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Sand, Silt an	Clay, Silt, Sand	Huckleshrook	Hucklesbrook	Sandy Loam		Moderate	1 1	q		25 3a	1	3a	2	High (>60% BMV)	
TO27 TO7768 520 568228.03 177023.32	CER		28 127 10		9 <7		1 - 3a	Flood Zone 1	1 1	Chalk	None None	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderate	1 1	9		25 3a	1	22	2	High (>60% BMV)	
	CER		28 127 10		9 <7	_	1 - 3a	Flood Zone 1		Chalk	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook		-	Moderati		,			į.	2-	2	High (>60% BMV)	
					9 <7				1 1	_				Sandy Loam	_		1 1	9			1	. a	2	, , , ,	
TQ27 TQ7768 522 568428.03 177023.32	CER		28 127 10		0 17	1 30	1 - 3a	Flood Zone 1	1 1	Chalk	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam		Moderati	1 1	9		25 3a	1	3a	Non Agricult	High (>60% BMV)	
TQ27 TQ7768 523 568528.03 177023.32	CER	556 1495 1	28 127 10	0 1	7 <7	1 50	1 - 3a	Flood Zone 1	1 1	Chalk	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	9		25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7768 524 568628.03 177023.32	CER	556 1495 1	28 127 10	0 1	6 <7	1 - 3a	1 - 3a	Flood Zone 1	1 1	Chalk	Clay, Silt, Sand	Hucklesbrook	Hucklesbrook	Sandy Loam	ı	Moderate	1 1	9	2	25 3a	1	3a	2	High (>60% BMV)	
TQ27 TQ7666 525 566428.03 176623.32	CER	559 1499 1	28 127 10	2 1	2 <7	1 - 3a	1 - 3a	Flood Zone 3	1 Pos	sib Chalk	Clay, Silty, Pea	Wallasea 1	Wallasea	Silty Clay	Ш	Stoneless	1 3b	-7	3a -	31 3b	1	3b	3	Low (<= 20% BMV)	
TQ27 TQ7666 526 566428.03 176523.32	CER	559 1499 1	28 127 10	2 1	2 <7"	1 - 3a	1 - 3a	Flood Zone 3	1 Pos	sib Chalk	Clay, Silty, Pea	Wallasea 1	Wallasea	Silty Clay	Ш	Stoneless	1 3b	-7	3a -	31 3b	1	3b	3	Low (<= 20% BMV)	
TQ27 TQ7467 527 567358.19 174316.97	LEY		27 126 10		6 <7	1 - 3a	1 - 3a	Flood Zone 2	1 Pos	SibiChalk	Clay, Silty, Pea	Wallasea 1	Wallasea	Silty Clay	Ш	Stoneless	1 3b	-6		30 3a	1	3b	4	Low (<= 20% BMV)	
TQ27 TQ7467 528 567338.34 174220.94	DCW/		27 126 10		2 <7		1 - 3a	Flood Zone 3	1 200	sh Chalk	Clay, Silty, Pea	Wallasea 1	Wallasea	Silty Clay		Stoneless	1 3h	-6		30 3a	1	Non Agricult	4	Low (<= 20% BMV)	Deciduous woodland
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TQ27 TQ6971 644 569720.88	169743.16	CER (662 1	.362 1	108	101	129	1	71 <	7° 1	- 3a	1 - 3a	Flood Zone 1	1	1	Chalk	None	Fyfield 4	Fyfield	Sandy Loam I	Stoneless	1 1	26	2	17	1 1	2	2	High (>60% BMV)	
TQ27 TQ6971 645 569820.88	169743.16	CER (662 1	.362 1	108	101	129	1	70 <	7° 1	- 3a	1 - 3a	Flood Zone 1	1	1	Chalk	None	Frilsham	Frilsham	Sandy Heavy Cl I	Slightly st	1 1	36	1	7	2 1	2	2	High (>60% BMV)	
TQ27 TQ6971 646 569920.88	169743.16	CER 6	662 1	362 1	108	101	129	1	71 <	7° 1	- 3a	1 - 3a	Flood Zone 1	1	1	Chalk	Clay, Silt, Sand	Frilsham	Frilsham	Sandy Heavy Cl I	Slightly st	1 1	36	1	7	2 1	2	1	High (>60% BMV)	
TQ27 TQ6966 647 566728.03	169723.32	CER 6	662 1	362 1	108	101	129	1	74 <	7° 1	- 3a	1 - 3a	Flood Zone 1	1	1	Chalk	Clay, Silt, Sand	Coombe 1	Coombe	Silty Clay loam I	Slightly st	1 1	41	1	14	1 1	1	1	High (>60% BMV)	
TQ27 TQ6966 648 566828.03	169723.32	CER 6	662 1	362 1	108	101	129	1	77 <	7° 1	- 3a	1 - 3a	Flood Zone 1	1	1	Sand	None	Fyfield 4	Fyfield	Sandy Loam I	Stoneless	1 1	26	2	17	1 1	2	1	High (>60% BMV)	
TQ27 TQ6971 649 569720.88	169643.16	CER 6	662 1	362 1	108	101	129	1	72 <	7° 1	- 3a	1 - 3a	Flood Zone 1	1	1	Chalk	None	Frilsham	Frilsham	Sandy Heavy Cl I	Slightly st	1 1	36	1	7	2 1	2	2	High (>60% BMV)	
TQ27 TQ6971 650 569820.88	169643.16	CER 6	662 1	362 1	108	101	129	1	75 <	7° 1	- 3a	1 - 3a	Flood Zone 1	1	1	Chalk	Clay, Silt, Sand	Frilsham	Frilsham	Sandy Heavy CI I	Slightly st	1 1	36	1	7	2 1	2	1	High (>60% BMV)	

Annex D Soil Pit Descriptions

Project			Location										1	Date					Surveyor	(s)			Company			
C629			Lower Tham	es Crossing										18-Mar-19					RM				Askew Lan	d and Soil	l	
		_																								
Pit			WC	1	Grade	1	Limitation(s)		1	Notes															
1					3b		Wetness				Windsor As	ociat	ion	1												
		J	ļ		130	_1	wethess																			
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	l conditions					
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	9	ì	Vegetation ty	pes					Temp	Sky	Wind		Precipita	tion	
TQ	603	840	14	AB18	2°	South		Straight		Flat	Ploughed			Ley Grassland						Cool	Cloudy	Slight		Dry		
ių	1003	1040		TABLO	12	Jouth		Straight		riac	riougricu			LCy Grassiano	_					10001	cloudy	Jingine		DI Y		
Horizon	Depth		Matrix			Gleying	3		Mottl	es		Ston	ne c	content			Calc.	Mn C	Ped/soil s	structure			Horizon bo	undary	Biopores	SPL
	Тор	Bttm	Texture		Munsell	Gley	Colour	Munsell	Form	Colour	Munsell			Туре	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form	(>0.5mm)	
Ар	0	28	Clay	Dark Greyish Brown		0 0	ו		0		Non		Mod.	Medium	Subangular Blocky	Firm	Clear	Smooth	>0.5%	No						
Bg	28	60	Clay	Light Brownish Grey	10YR6/2	Yes	Light Brownish Grey	10YR6/2	MD	Yellowish Brown	10YR5/8	0 0)		0		Non		Poor	Coarse	Angular Blocky	Firm	Clear	Smooth	<0.5%	Yes
BCg	60	120	Clay	Brown	10YR5/3	Yes	Brown	10YR5/3	MD	Yellowish Brown	10YR5/8	0 0)		0		Non	Few	Poor	Coarse	Prismatic	Firm	n/a	n/a	<0.5%	Yes
						1																1	ı	ı		
Pit			WC		Grade		Limitation(s)			Notes															
		J				_																				
Grid Ref		_	Altitude	Nearest	Topography						Flora									Weather and						
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	9	_ '	Vegetation ty	pes					Temp	Sky	Wind		Precipita	tion	
					•																	1				
Horizon		_	Matrix			Gleying			Mottl					content			Calc.		Ped/soil s	tructure			Horizon bo	undary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	% F	1	Туре	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form		4
												Ш														

Project			Location										Da	ate					Surveyor	(s)			Company			
C629			Lower Tham	es Crossing									22	2-Feb-19					RWA				Askew Lar	ıd and Soi		
		_	,															,				_				
Pit		7	WC		Grade	7	Limitation(s)] [Notes															\neg
					Fladbury A	ccocia	tion																			
2			III		3b	_	Wetness]	i laubul y A	33001a	LIOII													
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	l conditions					
Square		North		point	Gradient	Aspect		Slope form			Culivation type	9	Ve	egetation ty	pes					Temp	Sky	Wind		Precipita	tion	
										L.																
TQ	621	836		AB4	1°	East		Straight		Flat	Ploughed		Le	y Grassland	_					Cold	Cloudy	Slight		Showers		
Horizon	Depth		Matrix			Gleying	3		Mottle	es		Stone					Calc.	Mn C	Ped/soil	structure			Horizon be	oundary	Biopores	SPL
	Тор		Texture		Munsell		Colour	Munsell	Form	Colour	Munsell	% Н	Ту	/pe	S	Туре			Dev.	Size	Structure		Distinct	Form	(>0.5mm)	
Ар	0	38	Clay	Dark Grey	5Y4/1	No						0 0			0		Non		Mod.	Medium	Subangular Blocky	Firm	Clear	Wavy	>0.5%	No
Bg	38	70	Clay	Brownish Grey	10YR5/2	Yes	Brownish Grey	10YR5/2	MD	Yellowish Brown	10YR5/6	0 0			0		Non		Poor	Coarse	Prismatic	Firm	Clear	Wavy	<0.5%	Yes
BCg	70	120	Clay	Greyish Brown	2.5Y5/2	Yes	Greyish Brown	2.5Y5/2	MD	Yellowish Brown	10YR5/8	0 0			0		Non	Few	Poor	n/a	Massive	Firm	n/a	n/a	<0.5%	Yes
																						l				
Pit			WC		Grade]	Limitation(s)			Notes															
		_				1				J (
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	conditions					
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	9	Ve	egetation ty	pes					Temp	Sky	Wind		Precipita	tion	
		1				1																l				
Horizon	Depth		Matrix			Gleying	g		Mottle	es		Stone					Calc.	Mn C	Ped/soil	structure			Horizon be	oundary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	% Н	Ту	/pe	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form		\perp

Project			Location										Da	te					Surveyor	(s)			Company			
C629			Lower Tham	es Crossing									18-	-Mar-19					RM				Askew Lan	ıd and Soil		
		=																				_				
Pit			WC	1	Grade	1	Limitation(s	:)]	Notes															\neg
				I 3a Droughtiness Shabbingt																						
1			II	Shabbington A	ssociat	tion																				
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	conditions					
Square		North	, acreade		Gradient	Aspect		Slope form		Surface	Culivation type	•	Ve	getation ty	pes						Sky	Wind		Precipita	tion	-
TQ	598	840	25	SP16/AB20	1	South		Straight		Flat	Ploughed		Cei	reals						Cool	Cloudy	Slight		Showers		
Horizon	Depth		Matrix			Gleying	ž		Mottle	2S		Stone	e con	tent			Calc.	Mn C	Ped/soil s	structure			Horizon bo	oundary	Biopores	SPL
	_	Bttm	Texture	Colour	Munsell	, ,	Colour	Munsell		Colour		% Н			S	Туре			Dev.	Size	Structure	Strength	Distinct	Form	(>0.5mm)	
Ap	0	25	Medium Sandy Loam	Very Dark Greyish Brown	10YR3/2	No						10 10	0 Gra	avel	0		Non		Mod.	Fine	Grannular	Friable	Clear	Wavy	>0.5%	No
Btg	25	50	Sandy Clay Loam		10YR4/2	Yes	Dark Greyish	10YR4/2				10 10	0 Gra	avel	0		Non		Mod.	Coarse	Angular	Firm	Clear	Wavy	20.376	No
				Brown	·		Brown	·													Blocky			,	>0.5%	
BTg2	50	120	Sandy Clay Loam	Dark Grey	10YR4/1	Yes	Dark Grey	10YR4/1	CD	Yellowish Brown	10YR5/6	10 10	0 Gra	avel	0		Non		Weak	Medium	Subangular blocky	Firm	n/a	n/a	>0.5%	No
	•			-		_														•						
Pit			WC		Grade	_	Limitation(s	:)			Notes															
		_				4				ı																
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and						
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	<u> </u>	Ve	getation ty	pes					Temp	Sky	Wind		Precipita	tion	
	<u> </u>			l.		<u> </u>																				
Horizon	Depth		Matrix			Gleying	3		Mottle	es		Stone	e con	tent			Calc.	Mn C	Ped/soil	structure			Horizon bo	oundary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	% Н	Тур	pe	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form		
																										T
	1			1		1						ш								<u> </u>	1					

Project			Location										D	Date					Surveyor	(s)			Company			
C629			Lower Tham	es Crossing									18	.8-Mar-19					RM				Askew Lan	d and Soi	l	
Pit			WC	1	Grade	Ī	Limitation(s)		1	Notes															\neg
4			ı		3a		Droughtines	ss			Hucklesbrook	Assoc	ciatic	on												
				4	<u> </u>					4																
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and						
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type		V	egetation ty	pes					Temp	Sky	Wind		Precipita	tion	
TQ	668	787	11	SP12; AB13	1	West		Straight		Level	Ploughed		c	Cereals						Warm	Cloudy	Slight		Dry		
ių	1000	1707		51 12, AD15	12	west		Straight		LCVCI	riougheu			creais						· · · · · · · · · · · · · · · · · · ·	cloudy	Jilgitt		Diy		
Horizon	Depth		Matrix			Gleying			Mottle	es		Ston	ne co	ontent			Calc.	Mn C	Ped/soil s	tructure			Horizon bo	undary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	% H	н Ту	ype	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form	(>0.5mm)	
Ар	0	32	Fine Sandy Loam	Brown		3 3	} G	Gravel			None	None	Mod.	Medium	Granular	Friable	Abrupt	Sharp	>0.5%	No						
Eb	32	70	Sandy Clay Loam	Brown	7.5YR4/4	No			None			3 3	3 G	Gravel			None	None	Mod.	Fine	Subangular Blocky	Firm	Clear	Wavy	>0.5%	No
Bt	70	120	Sandy Clay	Brown	7.5YR5/4	No			None			60 6	50 G	Gravel			None	None	Weak	Fine	Subangular	Firm	n/a	n/a		No
			Loam								<u> </u>		ㅗ								Blocky				>0.5%	\perp
Pit		1	wc	1	Grade	T	Limitation(s)		1	Notes															
					Grade		Limitation	<i>I</i>			- Total															
				_																						
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and						
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type		V	egetation ty	pes					Temp	Sky	Wind		Precipita	tion	
											•															
Horizon	Depth		Matrix			Gleying	ļ		Mottle	es				ontent			Calc.	Mn C	Ped/soil s	tructure			Horizon bo	undary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	% H	н Ту	ype	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form		
													1													
L	1	1	1	1		1	I	l	1	1	1									l	1	I	1		1	

Project			Location										C	Date					Surveyor	s)			Company			
C629			Lower Tham	es Crossing									1	18-Mar-19					RM				Askew Lan	d and Soi	l	
Pit		1	WC		Grade	T	Limitation(s)		1	Notes															\neg
5			I		2		Droughtines	SS			Fyfield Associa	tion														
			1	1	•						•									1						
Grid Ref.			Altitude	Nearest	Topography			la		la .	Flora									Weather and		L				
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type		١	Vegetation ty	pes					Temp	Sky	Wind		Precipita	tion	
TO.	668	785	11	SP12; AB8	1	West		Straight		Level	Ploughed			Cereals						Warm	Cloudy	Slight		Des		
TQ	1000	763	11	3F 12, ADO	1+	west		Straight		Level	riougileu			cereais						vvaiiii	Cloudy	Slight		Dry		
Horizon	Depth		Matrix			Gleying			Mottle	es		Ston	ne co	ontent			Calc.	Mn C	Ped/soil s	tructure			Horizon bo	undary	Biopores	SPL
			Texture	Colour	Munsell			Munsell		Colour				Туре	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form	(>0.5mm)	
Ар	0		Fine Sandy	Brown	10YR4/3	No			None					Gravel		71:	None	None		Medium	Granular			Sharp		No
			Loam		,																			· ·	>0.5%	
Eb	30	70	Fine Sandy	Brown	10YR4/4	No			None			3 3	3 (Gravel			None	None	Mod.	Medium	Subangular	Firm	Clear	Wavy		No
			Loam																		Blocky				>0.5%	
Bt	70	120	Fine Sandy	Strong	10YR4/6	No			None			50 5	50 G	Gravel			None	None	Weak	Fine	Single Grain	Firm	n/a	n/a		No
			Loam	Brown																				<u> </u>	>0.5%	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
		1		1		-				1																
Pit			WC		Grade	+	Limitation(s)			Notes															
				ļ		1				J																
Grid Ref.			Altitude	Nearest	Topography						Flora									Weather and	conditions					
Square		North	, wereade	point	Gradient	Aspect		Slope form		Surface	Culivation type		V	Vegetation ty	pes					Temp	Sky	Wind		Precipita	tion	
											7,			.,,							- /					
Horizon	Depth		Matrix			Gleying			Mottle	es				ontent			Calc.	Mn C	Ped/soil s	tructure			Horizon bo	undary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	% H	ı T	Туре :	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form		
												+	1													\vdash

Project			Location										D	ate					Surveyor	(s)			Company			
C629			Lower Tham	es Crossing									18	8-Mar-19					RWA				Askew Lar	d and Soil		
			,																			_				
Pit		1	WC	1	Grade	7	Limitation(s)		1	Notes															\neg
6		_	V	_	4		Wetness			J	Wallasea Asso	ciatio	n													
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	Conditions					
Square		North	, iicituuc	1	Gradient	Aspect		Slope form		Surface	Culivation type	9	V	egetation ty	pes					Temp	Sky	Wind		Precipita	tion	-
TQ	680	733	1	SP8/AB2	2°	North		Straight		Flat	Unploughed		Pe	ermanent G	rass	land				Cold	Cloudy	Slight		Showers		
Horizon	Depth		Matrix			Gleying	,		Mottl	es		Stone	e co	ontent			Calc	Mn C	Ped/soil	structure			Horizon bo	nundary	Biopores	SPI
110112011		Bttm	Texture	Colour	Munsell	, ,	'	Munsell		Colour	Munsell	% H			S	Туре			Dev.	Size	Structure	Strength	Distinct	Form	(>0.5mm)	5. 2
А	0	22	Silty Clay	Greyish Brown	2.5Y5/2	Yes			MD	Yellowish Red	5YR4/6	0 0)		0		Non		Mod.	Medium	Subangular	Firm	Clear	Straight		No
D-	28	60	Clay	Light Brownish	2 546/2	Yes	Light Brownish	2 546/2	MD	Yellowish Red	5YR4/6	0 0			۰		Non		Poor	C	Blocky	Firm	Clear		>0.5%	Yes
Bg	28	60	Clay	Grey	2.516/2	res	Grey	2.516/2	IVID	renowishined	5184/6	0 0	'		U		Non		Poor	Coarse	Angular Blocky	Firm	Clear	Straight	<0.5%	res
BCg	60	120	Clay	Greyish Brown	2.5Y6/1	Yes	Greyish Brown	2.5Y6/1	MD	Yellowish Red	5YR4/6	0 0)		0		Non	Few	Poor	Coarse	Prismatic	Firm	n/a	n/a	<0.5%	Yes
		_		_						_											•	,	•			
Pit			WC		Grade		Limitation(s)			Notes															
		_		J						_																-
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	l conditions					
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	9	V	egetation ty	pes					Temp	Sky	Wind		Precipita	tion	
	<u> </u>	<u> </u>				<u> </u>				l.																-
Horizon			Matrix			Gleying			Mottl					ntent			Calc.		Ped/soil	structure			Horizon bo	oundary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	% Н	l Ty	ype	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form		

Project			Location											Date					Surveyor	(s)			Company			
C629			Lower Than	nes Crossing								╝		18-Mar-19					AR				Askew Lar	nd and So	il	
Pit			WC		Grade		Limitation((s)			Notes															
5			I		2		Droughtine	ess			Coombe Assoc	iatio	on													
Grid Ref.			Altitude	Nearest	Topography						Flora									Weather and	d conditions					
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	9		Vegetation t	ype	S				Temp	Sky	Wind		Precipita	ation	
TQ	680	722	46	SP5/AB18	3	North		Straight		Level	Ploughed			Cereals						Warm	Cloudy	Slight		Dry		
. ~	1	<u> </u>			1-	1		1511-0-0-1			1											18		17		
Horizon	Depth		Matrix			Gleyin			Mottle					content			Calc.	Mn C	Ped/soil:	structure			Horizon b	oundary		SPL
	Тор	Bttm	Texture		Munsell		Colour	Munsell		Colour	Munsell	%	Η			Туре			Dev.	Size	Structure	Strength	Distinct	Form	(>0.5mm)	
Ар	0	35	Medium Silty Clay Loam	Brown	10YR4/3	No			None			12	10	Flint	2	Chalk	Mod	None	Mod.	Fine	Subangular Blocky	Firm	Clear	Wavy	>0.5%	No
Eb	35	60	Medium Silty Clay Loam	Dark Yellowish Brown	10YR4/4	No			None			7	5	Flint	2	Chalk	Slight	None	Mod.	Medium	Subangular Blocky	Firm	Clear	Wavy	>0.5%	No
Bt	60	120	Medium Silty Clay Loam	Yellowish Brown	10YR5/4	No			None			20	5	Flint	15	Chalk	Slight	None	Weak	Medium	Subangular Blocky	Firm	n/a	n/a		No
				_																	· '					
Pit			WC		Grade		Limitation((s)			Notes															
										-																
Grid Ref.			Altitude	Nearest	Topography						Flora									Weather and						
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	9		Vegetation t	ype	5				Temp	Sky	Wind		Precipita	ation	
			1			1																				
Horizon			Matrix	Colour	la de conseil	Gleyin	Colour	Ta 4	Mottle	Colour				content Type	Ic.	T	Calc.	Mn C	Ped/soil:		Structure	Churcu th	Horizon b		Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	%	Н	Туре	5	Туре			Dev.	Size	Structure	Strength	Distinct	Form		
						-						H					-									
																					1			<u> </u>	<u> </u>	

Project			Location											Date					Surveyor	(s)			Company			
C629			Lower Tham	es Crossing										18-Mar-19					AR				Askew Lan	ıd and Soi	I	
Pit			WC]	Grade	I	Limitation(s)			Notes															
5			I		3b		Droughtine	ss			Frilsham Asso	ciatio	n													
			1	1		_																				
Grid Ref		N1	Altitude	Nearest	Topography	I A +		CI f		c	Flora			\/+-+:						Weather and		Wind		To	4:	
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	2		Vegetation ty	pes					Temp	Sky	wina		Precipita	ition	
TQ	687	720	36	SP4/AB15	2	West		Straight		Level	Ploughed			Cereals						Warm	Cloudy	Slight		Dry		
Horizon			Matrix			Gleying			Mottle				_	ontent		•	Calc.			structure			Horizon bo		Biopores	
	Тор	Bttm	Texture	Colour	Munsell		Colour	Munsell		Colour	Munsell			Туре		Туре			Dev.					Form	(>0.5mm)	
Ар	0	28	Medium Silty Clay Loam	Dark Greyish Brown	10YR4/2	No			None			7	5	Flint	2	Chalk	Mod	None	Mod.	Fine	Subangular Blocky	Firm	Clear	Wavy	>0.5%	No
Eb/Bt	28	45	Medium Silty Clay Loam	Dark Yellowish Brown	10YR4/4	No			None			10	0		10	Chalk	Very	None	Mod.	Medium	Subangular Blocky	Firm	Clear	Wavy	>0.5%	No
Cu	45	65+	Chalk	White	10YR8/1	No			None			100	0		100	Chalk	Very	None	n/a	n/a	n/a	n/a	n/a	n/a	>0.5%	No
			l	l.			l	l				<u> </u>		Į.											7 0.570	
Pit			WC		Grade	I	Limitation(s)			Notes															
		1	<u> </u>	J		1				1																
Grid Ref			Altitude	Nearest	Topography						Flora									Weather and	conditions					
Square	East	North		point	Gradient	Aspect		Slope form		Surface	Culivation type	Э		Vegetation ty	pes					Temp	Sky	Wind		Precipita	ation	
	<u> </u>																									
Horizon	Depth		Matrix			Gleying	5		Mottle	es		Ston	e co	ontent			Calc.	Mn C	Ped/soil :	structure			Horizon bo	oundary	Biopores	SPL
	Тор	Bttm	Texture	Colour	Munsell	Gley	Colour	Munsell	Form	Colour	Munsell	%	Н	Туре	S	Туре			Dev.	Size	Structure	Strength	Distinct	Form		
																-			-							
	1																									

Annex E Topsoil Particle Size Distribution (PSD) – Certificates of Analysis



Report Number 49475-19 N717

Date Received 26-MAR-2019
Date Reported 01-APR-2019

Project SOIL

Reference LOWERTHAMES CROSSING

Order Number

Laboratory Reference		SOIL429627	SOIL429628				
Sample Reference		2-046	2-012				
Determinand	Unit	SOIL	SOIL				
Coarse Sand 2.00-0.63mm	% w/w	2	1				
Medium Sand 0.63-0.212mm	% w/w	3	1				
Fine Sand 0.212-0.063mm	% w/w	48	66				
Silt 0.063-0.002mm	% w/w	25	17				
Clay <0.002mm	% w/w	22	15				
Textural Class **		SCL	fSL				

Notes

Document Control

Analysis Notes The sample submitted was of adequate size to complete all analysis requested.

The results as reported relate only to the item(s) submitted for testing.

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** Please see the attached document for the definition of textural classes.

Reported by Darren Whitbread

Natural Resource Management, a trading division of Cawood Scientific Ltd.

Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS

Tel: 01344 886338 Fax: 01344 890972



ADAS (UK) Textural Class Abbreviations

The texture classes are denoted by the following abbreviations:

Class	Code
Sand	S
Loamy sand	LS
Sandy loam	SL
Sandy Silt loam	SZL
Silt loam	ZL
Sandy clay loam	SCL
Clay loam	CL
Silt clay loam	ZCL
Clay	С
Silty clay	ZC
Sandy clay	SC

For the sand, loamy sand, sandy loam and sandy silt loam classes the predominant size of sand fraction may be indicated by the use of prefixes, thus:

- vf Very Fine (more than 2/3's of sand less than 0.106 mm)
- f Fine (more than 2/3's of sand less than 0.212 mm)
- c Coarse (more than 1/3 of sand greater than 0.6 mm)
- m Medium (less than 2/3's fine sand and less than 1/3 coarse sand).

The subdivisions of *clay loam* and *silty clay loam classes* according to clay content are indicated as follows:

- M medium (less than 27% clay)
- H heavy (27-35% clay)

Organic soils i.e. those with an organic matter greater than 10% will be preceded with a letter O.





Report Number 49476-19 N717

Date Received 26-MAR-2019
Date Reported 01-APR-2019

Project SOIL

Reference LOWERTHAMES CROSSING

Order Number

Laboratory Reference		SOIL429629	SOIL429630	SOIL429631	SOIL429632	SOIL429633	SOIL429634		
Sample Reference		2-061	3-061	4-038	6-045	4-047	6-052		
Determinand	Unit	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sand 2.00-0.063mm	% w/w	42	44	40	6	39	17		
Silt 0.063-0.002mm	% w/w	30	29	32	33	34	31		
Clay <0.002mm	% w/w	28	27	28	61	27	52		
Textural Class **		HCL	HCL	HCL	O-C	HCL	С		

Notes

Analysis Notes

The sample submitted was of adequate size to complete all analysis requested.

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Silt loam	ZL
Sandy clay loam	SCL
Clay loam	CL
Silt clay loam	ZCL
Clay	С
Silty clay	ZC
Sandy clay	SC

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Report Number 51443-19 N717

Client C629

LOWER THAMES CROSSING

Date Received
Date Reported

09-APR-2019 16-APR-2019

Project SOIL Reference C629

Order Number

Laboratory Reference		SOIL431615	SOIL431616	SOIL431617	SOIL431618	SOIL431619	SOIL431620		
Sample Reference		12-078	12-174	12-067	12-088	12-100	12-111		
Determinand	Unit	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Coarse Sand 2.00-0.63mm	% w/w	2	3	3	2	2	2		
Medium Sand 0.63-0.212mm	% w/w	31	30	20	18	17	24		
Fine Sand 0.212-0.063mm	% w/w	19	17	17	16	19	17		
Silt 0.063-0.002mm	% w/w	35	33	46	49	44	42		
Clay <0.002mm	% w/w	13	17	14	15	18	15		
Textural Class **		mSL	mSZL/mSL	mSZL	mSZL	MCL/mSZL	mSZL		

Notes

Analysis Notes The sample submitted was of adequate size to complete all analysis requested.

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** Please see the attached document for the definition of textural classes.

Reported by

Myles Nicholson

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Class	Code
Sand	S
Loamy sand	LS
Sandy loam	SL
Sandy Silt loam	SZL
Silt loam	ZL
Sandy clay loam	SCL
Clay loam	CL
Silt clay loam	ZCL
Clay	С
Silty clay	ZC
Sandy clay	SC

For the sand, loamy sand, sandy loam and sandy silt loam classes the predominant size of sand fraction may be indicated by the use of prefixes, thus:

- vf Very Fine (more than 2/3's of sand less than 0.106 mm)
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Report Number

51444-19

N717

Date Received

09-APR-2019

Date Reported

15-APR-2019

Project

SOIL

Reference

C629

Order Number

Order Number		_						
Laboratory Reference		SOIL431621	SOIL431622	SOIL431623	SOIL431624			
Sample Reference		13-009	13-027	12-133	4-048			
Determinand	Unit	SOIL	SOIL	SOIL	SOIL			
Sand 2.00-0.063mm	% w/w	21	12	40	47			
Silt 0.063-0.002mm	% w/w	45	31	39	28			
Clay <0.002mm	% w/w	34	57	21	25			
Textural Class **		HCL	С	MCL	MCL			

Notes

Analysis Notes

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Class	Code
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Sandy loam	SL
Sandy Silt loam	SZL
Silt loam	ZL
Sandy clay loam	SCL
Clay loam	CL
Silt clay loam	ZCL
Clay	С
Silty clay	ZC
Sandy clay	SC

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Client C629

LOWER THAMES CROSSING

Report Number 52156-19

 Date Received
 15-APR-2019

 Date Reported
 23-APR-2019

Project SOIL Reference C629

Order Number

Order Hamber									
Laboratory Reference		SOIL432443	SOIL432444	SOIL432445	SOIL432446	SOIL432447			
Sample Reference		11-003	11-029	11-060	10-059	13-065			
Determinand	Unit	SOIL	SOIL	SOIL	SOIL	SOIL			
Sand 2.00-0.063mm	% w/w	57	34	40	3	45			
Silt 0.063-0.002mm	% w/w	29	51	47	36	35			
Clay <0.002mm	% w/w	14	15	13	61	20			
Textural Class **		SL	SZL	SZL	С	MCL			

Notes

Analysis Notes

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N717

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Class	Code
Sand	S
Loamy sand	LS
Sandy loam	SL
Sandy Silt loam	SZL
Silt loam	ZL
Sandy clay loam	SCL
Clay loam	CL
Silt clay loam	ZCL
Clay	С
Silty clay	ZC
Sandy clay	SC

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Client C629

LOWER THAMES CROSSING

Report Number 52157-19

Date Received 15-APR-2019
Date Reported 23-APR-2019

Project SOIL Reference C629

Order Number

Laboratory Reference		SOIL432448	SOIL432449	SOIL432450	SOIL432451	SOIL432452	SOIL432453	SOIL432454	SOIL432455	SOIL432456	SOIL432457
Sample Reference		13-075	13-035	12-033	14-003	14-041	14-064	14-081	14-082	14-051	12-019
Determinand	Unit	SOIL									
Coarse Sand 2.00-0.63mm	% w/w	3	6	3	3	3	2	2	3	3	2
Medium Sand 0.63-0.212mm	% w/w	8	31	27	33	26	24	21	13	23	23
Fine Sand 0.212-0.063mm	% w/w	9	11	27	14	29	35	32	24	28	18
Silt 0.063-0.002mm	% w/w	39	36	32	29	27	23	28	42	29	42
Clay <0.002mm	% w/w	41	16	11	21	15	16	17	18	17	15
Textural Class **		С	mSZL	mSL	SCL/MCL	mSL	mSL	mSL	MCL/mSZL	mSL	mSZL

Notes

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Silt loam	ZL
Sandy clay loam	SCL
Clay loam	CL
Silt clay loam	ZCL
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Sandy clay	SC

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