

Finmere Quarry Environmental Permit Application - Water Discharge

Impact Assessment Report

AT Contracting & Plant Hire Limited

Project number: 60537533

31 October 2019

Quality information

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1. Report Context

1.1 Introduction

AECOM has been commissioned by AT Contracting & Plant Hire Ltd (ATC&P or the "Operator") to prepare an application to facilitate abstraction and return of water from/to the onsite surface water lagoon (SWL1) at Finmere Quarry, Banbury Road, Finmere, Buckinghamshire.

The quarry site is located approximately 0.75km to the south-west of the village of Finmere, 5.1km south-east of Brackley and 6km west of Buckinghamshire. The quarry site is centred at grid reference SP 62843 32291 and the surface water lagoon (SWL1) is centred at SP.63012 32172. The site location is shown on Drawing FQ-Location in Appendix B.

This report details the impact assessment associated with returning abstracted water and surface water run off to the SWL1 lagoon and has been prepared to support the application for an environmental permit. The abstraction of water from the SWL1 lagoon is subject to a separate abstraction permit application (NPS/WR/032565). The report should be read in conjunction with other supporting application information.

1.2 Proposed Changes to the Facility

The Applicant is both the land owner and operator for the proposed water abstraction and water discharge activities. The extent of ownership boundaries is shown on Drawing FQ-SGE-001 in Appendix B of the attached Technical Plan (ref: 60537533-ACM-00-XX-RP-DIS-TECH-R001).

The Applicant extracts sand and gravel from the geological strata underlying the site which involves washing of the extracted mineral through an aggregate wash plant. Given the remote location of the site the operator intends to abstract water from the existing on-site surface water lagoon (SWL1) which was constructed to manage surface water run-off from the wider site area.

The abstracted water will be primarily used as mineral wash water in the aggregate washing plant with a small amount being abstracted for the purposes of dust suppression and to top up the site wheel wash. The SWL1 lagoon would also be used as a source of firewater in an emergency.

The water which is abstracted from the SWL1 lagoon will be returned to SWL1 along with surface water run-off from the wider quarry, landfill, MRF, wash plant and batching plant areas. The landfill and MRF are operated by a separate company Opes MRF 2013 Limited.

2. Methodology

2.1 Introduction

This section outlines the approach taken to evaluate the risks to the environment associated with the discharge of surface waters into the Surface Water Lagoon (SWL1) at Finmere Quarry . The impact evaluation process has made reference to the appropriate guidance within:

- Environment Agency (EA) Guidance “*Risk Assessments for your Environmental Permit*”; and
- Environment Agency (EA) “*Surface Water Pollution Risk Assessment for your Environmental Permit.*”

2.2 Impact Evaluation Methodology

The evaluation methodology used involves three stages:

- i. Source characterisation, to identify the potential contaminants and risks associated with the discharge of water back into the surface water lagoon (SWL1). This covered in detail in Section 3 below.
- ii. Receptor evaluation, to review the receptors which could be impacted by the hazards and risks from the discharge activity. This is discussed in more detail in Section 4 below, but broadly covers:
 - Residential, commercial and industrial human receptors;
 - Habitat receptors associated with designated and other sensitive sites; and
 - Location related receptors associated with site geology, hydrogeology and hydrology.
- iii. Risk assessment which evaluates the hazards and risks in terms of the probability of occurrence and the severity of the impact on the identified receptors. The risk assessment also summarises the management plan approach that will be used to mitigate the identified risks.

3. Source Characterisation

3.1 Hazard Identification

The hazard identification process draws on ATC&P's practical experience and knowledge of the site and specifically the management of the surface water lagoon (SWL1).

3.2 Surface Water Lagoon

The SWL1 lagoon is an off-stream purpose built structure installed by the Operator to manage surface water flows from around the quarry, landfill, MRF, wash plant and batching plant areas as shown on Drawing 60556545-Figure 01 (see Appendix B of 60537533-ACM-00-XX-RP-DIS-TECH-R001 Technical Plan). The area which drains to the SWL1 lagoon is approximately 10.8 ha.

The construction layout and cross sections are shown on Drawing OQF-03-02-BQ-W-6731 (See Appendix B of 60537533-ACM-00-XX-RP-DIS-TECH-R001 Technical Plan).

The SWL1 lagoon has been divided into 2 areas separated by a dividing weir as follows:

- Clean side – this is the area from which water is abstracted. Water is primarily abstracted and pumped to the aggregate wash plant although a small volume will be used for dust suppression and to replenish the site wheel wash. This side receives surface run-off from around the landfill and MRF areas;
- Silt side – this facilitates the settlement of silt materials in water being returned to the SWL1 lagoon prior to clean water overflowing the weir into the clean side. The silt side of SWL1 receives wash water pumped back from the aggregate wash plant. It also receives surface run-off from the areas around the wash plant and the batching plant which are used for storing aggregate materials. Surface run-off water gravity drains to the SWL1 lagoon along the installed drainage route which includes two drop out chambers to facilitate solid removal prior to reaching the lagoon.

The SWL1 lagoon is approximately 1.24 ha in area with the grid references at four 'corners' as shown in table 1 below. These are shown on Drawing 60556545-Figure 02 in Appendix B of 60537533-ACM-00-XX-RP-DIS-TECH-R001 Technical Plan.

Table 1 Finmere Site Surface Water Lagoon Grid Reference Points

	1 st Grid Reference	2 nd Grid Reference	3 rd Grid Reference	4 th Grid Reference
Finmere Site SW Lagoon – Clean Side	SP 62961 32219	SP 63053 32236	SP 63045 32179	SP 62947 32128
Finmere Site SW Lagoon – Silt Side	SP 62947 32128	SP 63045 32179	SP 63024 32099	SP 62973 32097

The SWL1 lagoon depth is approximately 5.5m at the deepest point with an effective volume of 46,047 m³. SWL1 has been lined with 1m depth of site-sourced Oxford Blue clay to the side walls and 2m depth of site-sourced Oxford Blue clay to the base.

The SWL1 lagoon is monitored regarding the level of silt accumulation and is desilted as necessary under a site D1 exemption which allows the dredged material to be placed on the land adjacent to the lagoon.

3.3 Water Discharge Activities

The main discharge activity is the return of abstracted water back into the SWL1 lagoon from which it is taken. This essentially comprises recycling of water used in the aggregate wash plant which is pumped back to the silt side of the same surface water lagoon (SWL1). The point of discharge back into the SWL1 is SP 62971 32109 and this is shown on Drawing 60556545-Figure 03 attached in Appendix B of 60537533-ACM-00-XX-RP-DIS-TECH-R001 Technical Plan. The water is abstracted and returned at a rate of 300 m³/hour or 0.0833 m³/sec.

In addition to returning abstracted water, the SWL1 lagoon receives surface water run-off from the wider quarry, landfill, MRF aggregate wash plant and batching plant areas. Calculations to estimate the maximum and typical rainfall volumes have been based on "Catchment Daily Rainfall, Station 33005, Data 01/01/1951 to 31/12/2015", UK National River Flow Archive. The maximum rainfall recorded was 73.1 mm or 0.0915 m³/sec which broadly equates to the 30-year storm event as shown in the Micro Drainage calculations (ref: Appendix C of 6057533-ACM-00-XX-RP-DIS-TECH-R001 TECHNICAL Plan).

The calculation for water discharge needs for the site are detailed below:

Table 2 Water Discharge Needs Calculation

Site Operating Hours	07:00 – 18:00 Mon to Fri 07:00 – 13:00 Sat	Total Hours Per Week	61
Max Hours Per Annum	3,172	Wash Plant Pump Rate	300 m ³ / hr
Max Annual Abstraction for Aggregate Wash Plant	951,600 m ³ / annum		
Waste Water Pump Rate	300 m ³ / hr	Wash Plant Water Loss	25%
Max Annual Water Return from Aggregate Wash Plant	713,700 m ³ / annum		
Waste Water Pump Rate	300 m ³ / hr	Return Rate is	83.33 litres/sec
Typical Rainfall	7.38 litres/sec	Typical Discharge Rate	90.72 litres/sec
Maximum Rainfall	91.46 litres/sec	Maximum Discharge Rate	174.79 litres/sec

3.4 Lagoon Water Quality

3.4.1 Clean Side

Typical SWL1 lagoon water – clean side analysis is shown below with the detailed analysis shown in Appendix A:

Table 3 Water Quality in Finmere Site Surface Water Lagoon – Clean Side

Parameter	Unit	Average	95 th Percentile	Maximum	Mean
pH		8.1	8.38	8.4	7.8
Nitrate	mg/l	15.5	19.4	20	12
Sulphate	mg/l	516	620	650	460
Cyanide (Total)	mg/l	0.05	0.05	8.4	7.8
Thiocyanate	mg/l	0.5	0.5	20	12
Sulphide	mg/l	0.065	0.101	650	460
Arsenic (Dissolved)	µg/l	1.18	1.72	0.05	0.05
Boron (Dissolved)	µg/l	38	64.6	0.5	0.5
Cadmium (Dissolved)	µg/l	0.08	0.08	0.11	0.05
Chromium (Dissolved)	µg/l	5	17	1.9	1
Copper (Dissolved)	µg/l	1.35	2.05	73	25
Mercury (Dissolved)	µg/l	0.3875	0.5	0.08	0.08
Nickel (Dissolved)	µg/l	2.18	3	21	1
Lead (Dissolved)	µg/l	1.1	1.34	2.2	1
Selenium (Dissolved)	µg/l	3.34	5.76	0.5	0.05
Zinc (Dissolved)	µg/l	16.82	36.4	3.1	1.5
Chromium (Hexavalent)	µg/l	20	20	1.4	1
Naphthalene	µg/l	0.1	0.1	6.3	2
Acenaphthylene	µg/l	0.1	0.1	41	7.1

Parameter	Unit	Average	95 th Percentile	Maximum	Mean
Acenaphthene	µg/l	0.1	0.1	20	20
Fluorene	µg/l	0.1	0.1	0.1	0.1
Phenanthrene	µg/l	0.1	0.1	0.1	0.1
Anthracene	µg/l	0.1	0.1	0.1	0.1
Fluoranthene	µg/l	0.1	0.1	0.1	0.1
Pyrene	µg/l	0.1	0.1	0.1	0.1
Benzo[a]anthracene	µg/l	0.1	0.1	0.1	0.1
Chrysene	µg/l	0.1	0.1	0.1	0.1
Benzo[b]fluoranthene	µg/l	0.1	0.1	0.1	0.1
Benzo[k]fluoranthene	µg/l	0.1	0.1	0.1	0.1
Benzo[a]pyrene	µg/l	0.1	0.1	0.1	0.1
Indeno(1,2,3-c,d)Pyrene	µg/l	0.1	0.1	0.1	0.1
Dibenz(a,h)Anthracene	µg/l	0.1	0.1	0.1	0.1
Benzo[g,h,i]perylene	µg/l	0.1	0.1	0.1	0.1
Total Of 16 PAH's	µg/l	2	2	0.1	0.1
Total Phenols	mg/l	0.03	0.03	0.1	0.1

3.4.2 Silt Side

Typical lagoon (SWL1) water – silt side analysis is shown below with the detailed analysis shown in Appendix A:

Table 4 Water Quality in Finmere Site Surface Water Lagoon – Silt Side

Parameter	Unit	Average	95 th Percentile	Maximum	Mean
pH		8.15	8.525	8.6	7.8
Nitrate	mg/l	13.10	19.2	20.00	0.50
Sulphate	mg/l	486.00	530	540.00	450.00
Cyanide (Total)	mg/l	0.05	0.058	0.06	0.05
Thiocyanate	mg/l	0.50	0.5	0.50	0.50
Sulphide	mg/l	0.05	0.05	0.05	0.05
Arsenic (Dissolved)	µg/l	1.22	1.7	1.80	1.00
Boron (Dissolved)	µg/l	45.20	73.2	80.00	31.00
Cadmium (Dissolved)	µg/l	0.08	0.08	0.08	0.08
Chromium (Dissolved)	µg/l	1.60	3.4	4.00	1.00
Copper (Dissolved)	µg/l	1.20	1.68	1.80	1.00
Mercury (Dissolved)	µg/l	0.50	0.5	0.50	0.50
Nickel (Dissolved)	µg/l	4.24	10.32	12.00	1.70
Lead (Dissolved)	µg/l	1.55	2.87	3.20	1.00
Selenium (Dissolved)	µg/l	3.52	5.42	5.90	2.60
Zinc (Dissolved)	µg/l	18.30	41.8	49.00	8.10
Chromium (Hexavalent)	µg/l	20.00	20	20.00	20.00
Naphthalene	µg/l	0.10	0.1	0.10	0.10
Acenaphthylene	µg/l	0.10	0.1	0.10	0.10
Acenaphthene	µg/l	0.10	0.1	0.10	0.10
Fluorene	µg/l	0.10	0.1	0.10	0.10
Phenanthrene	µg/l	0.10	0.1	0.10	0.10
Anthracene	µg/l	0.10	0.1	0.10	0.10

Parameter	Unit	Average	95 th Percentile	Maximum	Mean
Fluoranthene	µg/l	0.10	0.1	0.10	0.10
Pyrene	µg/l	0.10	0.1	0.10	0.10
Benzo[a]anthracene	µg/l	0.10	0.1	0.10	0.10
Chrysene	µg/l	0.10	0.1	0.10	0.10
Benzo[b]fluoranthene	µg/l	0.10	0.1	0.10	0.10
Benzo[k]fluoranthene	µg/l	0.10	0.1	0.10	0.10
Benzo[a]pyrene	µg/l	0.10	0.1	0.10	0.10
Indeno(1,2,3-c,d)Pyrene	µg/l	0.10	0.1	0.10	0.10
Dibenz(a,h)Anthracene	µg/l	0.10	0.1	0.10	0.10
Benzo[g,h,i]perylene	µg/l	0.10	0.1	0.10	0.10
Total Of 16 PAH's	µg/l	2.00	2	2.00	2.00
Total Phenols	mg/l	0.03	0.03	0.03	0.03
chloride	mg/l	8.15	8.525	8.6	7.8
Ammoniacal N	mg/l	13.10	19.2	20.00	0.50
Suspended solids	mg/l	486.00	530	540.00	450.00
Oil & Grease	mg/l	0.05	0.058	0.06	0.05
Conductivity		0.50	0.5	0.50	0.50

4. Receptor Evaluation

4.1 Introduction

The surface water lagoon (SWL1) is located within Finmere Quarry, Banbury Road, Finmere, Buckinghamshire. The quarry site is centred at grid reference SP 62843 32291 and the SWL1 surface water lagoon is centred at SP 63012 32172. The covers an area of approximately 1.24 hectares.

Potential receptors which could be potentially impacted by the operation of the SWL1 surface water lagoon are detailed in the sections below.

4.2 Location Based Receptors

The closest human receptors are identified in the table below.

Table 5 Human Receptors

Receptor	Description	Type	Approximate Distance (m) from SWL	Direction
R1	Bungalow at Foxley Fields Farm	Residential/Agricultural	256	North east
R2	Boundary Farm	Residential/Agricultural	323	South east
R3	Foxley Fields Farm	Residential/Agricultural	278	North east
R4	Barleyfields Barn Farm	Residential/Agricultural	800	South
R5	Widmore Farm – grade 2 listed status	Residential/Agricultural	848	North west
R6	Gravel Farm	Residential/Agricultural	636	North east
R7	Glanwin Meadow - dog training, DIY livery & cattery	Residential/Commercial	557	North east
R8	Finmere Village	Residential	800	North east
R9	Finmere Aerodrome	Commercial	1,100	East

4.3 Habitat Receptors

4.3.1 Designated sites

Information regarding designated sites was obtained from the Landmark Information Group and from the Multi-Agency Geographic Information for the Countryside (Magic) website, relating to:

- European Nature Conservation Sites;
- Special Protection Areas (SPAs);
- Special Areas of Conservation (SACs);
- RAMSAR sites;
- Area of Outstanding Natural Beauty (AONB); and
- Sites of Special Scientific Interest (SSSIs).

The 2km search is contained in Appendix B and identified:

- The application site does not lie in, or have any overlaps with, any statutory or international designated sites;
- Tingewick Meadows, Site of Special Scientific Interest (SSSI) lies approximately 1.8 km to the south East of the site designation for the site is on the basis of botanical interest associated with structural diversity within the sward of neutral grassland – Lowland.
- There are numerous sites of Ancient Woodland within 2km, the closest of which is Diggings Wood which is located approximately 1,060 m to the east of the surface water lagoon.
- There are no National or Local Nature Reserves or National Parks.

4.3.2 Other Sensitive Locations

In addition to the statutory designated sites, there are four sites with non-statutory designations present within 2km of the site boundary. These are habitats of principal importance covered by the Natural Environment and Rural Communities Act (2006) Section 41 designated for their conservation and biodiversity value in a national context:

- Finmere plantation, located within the land ownership boundary, adjacent to landfill cell 7 is a priority habitat for Deciduous woodland and holds High Spacial Priority.
- Within the land ownership boundary, other woodlands 96 m southwest and 319 m to the northeast, and the grassy plantation lying 300m to the northwest are identified as priority habitats.
- Spilsmere Woods local wildlife site (LWS) is approximately 1.1km to the southwest;
- West Wood LWS is approximately 1.25km to the east; and Barton Hartshorn Railway Wood LWS is approximately 1.4km to the south east.

4.4 Location Based Receptors

4.4.1 Geological Considerations

The BGS Solid and Drift Map for Oxfordshire 1:50,000 indicates that the underlying solid geology at the site consists of White Limestone and Forest Marble Formation formed 166 to 168 million years ago in the Jurassic Period, and Cornbrash formations formed 164 to 168 million years ago in the Jurassic Period. The White Limestone and Forest Marble Formations consist of Sedimentary and mudstone bedrock of interbedded carbonate material.

The site is predominantly underlain by Glacial Till Deposits (Till, Mid Pleistocene - Diamicton. Sedimentary superficial deposit formed between 860 and 116 thousand years ago during the Quaternary period) (BGS 2019).

4.4.2 Hydrogeological Considerations

The superficial deposits of Glacial Till Deposits across the majority of the site are classified by the Environment Agency as Unproductive Strata. The underlying bedrock of White Limestone and Forest Marble Formation are classed as a Principal Aquifers and Cornbrash formations to the southern area of the site is classified as a Secondary A aquifer. Therefore, the MRF is located above the Principal Aquifer Forest Marble Formation.

The groundwater vulnerability for the site is a major and partly minor aquifer overlain by soils of low leaching potential.

There are no Source Protection Zones (Total Catchment – Zone 3) within 5km of the site. Therefore, it is considered that SPZs will not be impacted by the proposed development as pathways are unlikely to be present.

4.4.3 Hydrological Considerations

Finmere Quarry Landfill is located within the River Great Ouse catchment. The River Great Ouse flows in an easterly direction, approximately 2 km north of the site. Tributaries of the Padbury Brook rise approximately 2km south-west of the site and flow in a generally south-easterly direction. The Environment Agency online flood map shows that the site is not located in the 1 in 1,000 year floodplain of the River Great Ouse. It is understood that no flooding has been experienced at the site since operations commenced.

The site straddles a surface water divide, with runoff from the northern part of the site draining to the River Great Ouse, and runoff from the south and east flowing to the Padbury Brook. It is likely that in the vicinity of the site, groundwater in both the sand and gravel and the limestone aquifers is in hydraulic continuity with the surface watercourses.

Surface water monitored is currently required at two locations at the Finmere Quarry Landfill site. These consist of the water discharged to the clean water lagoon located adjacent to the access road to the west of Finmere plantation which drains to ground and the point of water discharge on the eastern

boundary to the surface water system, referred to as SWMP1. There has been no discharge at SWMP1 since 2018. The ditch course downstream of monitoring location SWMP1 contains water but with little flow despite recent land drainage works on the eastern boundary of the site.

5. Impact Assessment

5.1 Introduction

This section details the approach to the impact evaluation of the discharges into the SWL1 surface water lagoon. The approach follows the guidance in the Environment Agency (EA) Guidance *“Risk Assessments for your Environmental Permit”*.

5.2 Risk Assessment Results

5.2.1 Initial Screening

In accordance with the EA guidance, as the water is returned back to the same body of water from which it is taken and the other portion of the discharge is surface run-off, no screening has been undertaken. The water quality has been monitored and the results for both the clean side of the SWL1 lagoon where water is removed and silt side which receives the discharged returned water are presented in Appendix A.

5.2.2 Risk Assessment

A general risk assessment of potential impacts has however, been prepared which considers the following hazards:

- Odour;
- Discharge of visible solids;
- Bacteria and viruses;
- Organic material;
- Suspended solids;
- Ammonia;
- Toxic substances;
- Phosphorous;
- Pollutants and nutrients; and
- Flooding.

The risk assessment which is presented in Appendix C has been completed by considering each hazard in terms of:

- a. Frequency of occurrence;
- b. Nature and quantity of substance released;
- c. Pathways and receptors involved;
- d. Environmental consequence (s) of the event;
- e. Overall risk and its significance to the environment; and
- f. Control and mitigation measures needed to prevent or reduce the risk.

5.2.3 Scoring Mechanism

The risk assessment methodology has been developed using a scoring mechanism, where scores are assigned to:

- The probability of the hazard occurring without the use of protective measures;
- The consequences of the hazard to the environment or human health; and
- The effectiveness of the control/mitigation used to prevent the hazard occurring.

The scoring mechanism used for the assessment is shown in Table 6 below.

Table 6 Risk Assessment Scoring System

Frequency of Occurrence		
Frequency	Comment	Score
Never	Incident occurs once every 100 to 10,000 years	1
Very Unlikely	Incident occurs once every 10 to 100 years	2
Unlikely	Incident occurs once every 1 to 10 years	3
Somewhat Unlikely	Incident occurs at least once per year	4
Fairly Probable	Incident occurs at least once per month	5
Probable	Incident occurs at least once per week	6
Consequence of Hazard to Environment or to Human Health		
Consequence	Comment	Score
Minor	<ul style="list-style-type: none"> Onsite nuisance only no outside complaint No breach of permit 	1
Noticeable	<ul style="list-style-type: none"> Nuisance noticeable off-site Potential for 1 – 2 complaints Reportable breach of permit Minor plant damage Health and safety 'near miss' 	2
Significant	<ul style="list-style-type: none"> Severe sustained nuisance Significant plant damage Injury requiring on-site medical treatment Major breach of environmental permit Numerous public complaints 	3
Severe	<ul style="list-style-type: none"> Hospital treatment required for injured persons Site evacuation required (partial or full) Partial plant shutdown required Replacement of part of plant Hazardous substance release to water course with ½-mile effect Off-site emergency services involved Regulator (EA/HSE) involved 	4
Major	<ul style="list-style-type: none"> Hospitalisation of injured persons Public warning and off-site emergency plan implemented Serious toxic effect on local protected habitat Widespread but temporary damage to land Significant fish kill over a 5 mile range Full plant shut-down required Regulatory prosecution likely 	5
Catastrophic	<ul style="list-style-type: none"> Major airborne release requiring evacuation of local population Plant shutdown for longer than 1 week Partial or full rebuild of plant Significant contamination of land and/or water sources requiring significant 	6
Effectiveness of Mitigation		
Mitigation Factor	Comment	Score
Non-existent	<ul style="list-style-type: none"> No mitigation in place 	1
Ineffective	<ul style="list-style-type: none"> Some minor controls in place but mitigation not achieved 	2
Partly effective	<ul style="list-style-type: none"> Basic controls in place and hazard partly mitigated but significant residual risk remains 	3
Effective	<ul style="list-style-type: none"> Basic controls in place and hazard mitigated to an acceptable level although moderate level of residual risk may exist 	4
Very effective	<ul style="list-style-type: none"> Processes fully controlled (basic/advanced) and hazard mitigated to recognised standard. Some minor residual risk may remain 	5
Entirely effective	<ul style="list-style-type: none"> Processes fully controlled to level in excess of recognised standards. Hazard mitigation entirely effective and no residual risk remains 	6

5.2.4 Potential Hazards

A list of potential hazards has been developed from the issues identified 5.2.2 above and these are shown below along with the anticipated pathway and receptor in Table 7 below.

Table 7 Potential Hazards

Potential Hazard	Pathway	Receptor
Unpleasant odour from water stored in the SWL1 lagoon.	<ul style="list-style-type: none"> Air 	<ul style="list-style-type: none"> Local population
Discharge of solids causing visible pollution of receiving water.	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Local population
Bacteria and viruses causing illnesses.	<ul style="list-style-type: none"> Contact with water 	<ul style="list-style-type: none"> Local population
Organic matter which removes oxygen from water causing it to become anoxic which can in turn damage plants and animals.	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Receiving water in SWL
Suspended solids causing build-up which reduces volume in SWL1 lagoon and may cause damage to plants and animals.	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Receiving water in SWL
Ammonia which removes oxygen from the water and can be directly toxic causing damage to plants and animals.	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Receiving water in SWL
Toxic substances which damage plants and animals.	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Receiving water in SWL
Phosphorous which in excess can stimulate plant growth and promote algae growth.	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Receiving water in SWL
Discharge of pollutants and nutrients which can adversely affect plants or animals.	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Protected habitats/species
Flooding	<ul style="list-style-type: none"> Water discharging to lagoon 	<ul style="list-style-type: none"> Local environment Local population

5.2.5 Risk Reduction and Management

The controls and mitigations for the site are summarised in Table 8 below. These are supported by site operating procedures and management arrangements as appropriate.

Table 8 Controls and Mitigations

Potential Hazard	Controls and Mitigations
Unpleasant odour from water stored in the SWL1 lagoon.	<ul style="list-style-type: none"> Serious smell is unlikely unless there is leachate breakout from the adjacent landfill which enters site drainage system. Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks. Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. In the event of leachate entering the SWL1 lagoon, it will be removed by bowser and exported from site via the leachate storage tanks. Should odour develop as a result of such an incident then the operator will deploy odour masking units until such times as the SWL1 lagoon is emptied of leachate.
Discharge of solids causing visible pollution of receiving water.	<ul style="list-style-type: none"> Site drainage system has been designed with silt chambers to facilitate the drop out of solids prior to reaching the SWL1 lagoon. Silt chambers will be inspected regularly for signs of build-up and silt will be removed and disposed of as required.

Potential Hazard	Controls and Mitigations
	<ul style="list-style-type: none"> SWL1 has been designed with a silt side which receives water from the aggregate wash plant – this facilitates settlement of solids prior to clean water overtopping the weir into the clean Side of the SWL1 lagoon. The SWL1 lagoon is regularly inspected for material build-up and is desilted using onsite mobile plant under the site D1 exemption.
Bacteria and viruses causing illnesses.	<ul style="list-style-type: none"> SWL1 will only accept returned abstracted water and surface water run-off from the wider site. There will be no discharge of any sewage.
Organic matter which removes oxygen from water causing it to become anoxic which can in turn damage plants and animals.	<ul style="list-style-type: none"> SWL1 will only accept returned abstracted water and surface water run-off from the wider site. There will be no discharge of any sewage.
Suspended solids causing build-up which reduces volume in SWL1 lagoon and may cause damage to plants and animals.	<ul style="list-style-type: none"> Site drainage system has been designed with silt chambers to facilitate the drop out of solids prior to reaching the SWL1 lagoon. Silt chambers will be inspected regularly for signs of build-up and silt will be removed and disposed of as required. SWL1 has been designed with a silt side which receives water from the aggregate wash plant – this facilitates settlement of solids prior to clean water overtopping the weir into the clean side of the lagoon. SWL1 lagoon is regularly inspected for material build-up and is desilted using onsite mobile plant under the site D1 exemption.
Ammonia which removes oxygen from the water and can be directly toxic causing damage to plants and animals.	<ul style="list-style-type: none"> Unlikely unless there is a leachate breakout at adjacent landfill which enters the drainage system Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks. Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. In the event of leachate entering the SWL1 lagoon, it will be removed by bowser and exported from site via the leachate storage tanks.
Toxic substances which damage plants and animals.	<ul style="list-style-type: none"> Unlikely unless there is a leachate breakout at adjacent landfill which enters the drainage system or a fire on site causing fire waters to discharge to the SWL1 lagoon. Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks. Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. In the event of leachate or fire waters entering the SWL1 lagoon, it will be removed by bowser and exported from site to a suitable third party licenced treatment facility via the leachate storage tanks.
Phosphorous which in excess can stimulate plant growth and promote algae growth.	<ul style="list-style-type: none"> Unlikely unless there is a leachate breakout at adjacent landfill which enters the drainage system Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks. Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. In the event of leachate entering the SWL1 lagoon, it will be removed by bowser and exported from site via the leachate storage tanks.
Discharge of pollutants and nutrients which can adversely affect plants or animals.	<ul style="list-style-type: none"> SWL1 is an off-stream lagoon there will be no discharge from site and as such there will be no downstream impact.

Potential Hazard	Controls and Mitigations
Flooding	<ul style="list-style-type: none"> • SWL1 lagoon levels will be monitored and volume kept below 35,000 m³. • In the event of adverse weather conditions, water will be removed from the SWL1 lagoon by bowser and exported from site to reduce levels to avoid flooding.

5.3 Conclusion

5.3.1 Groundwater Impact

The site is located on a non-aquifer and not within a source protection zone. As the SWL1 lagoon is lined with Oxford Blue Clay impact on groundwater is not considered to be significant.

5.3.2 Surface Water Impact

As SWL1 is an off-stream lagoon which:

- Only receives surface water run-off and returned water which was previously abstracted from the same SWL1 lagoon; and
- The site operates with defined controls as identified above.

The potential impact of the discharge is not considered to be significant.

Appendix A Lagoon Analysis

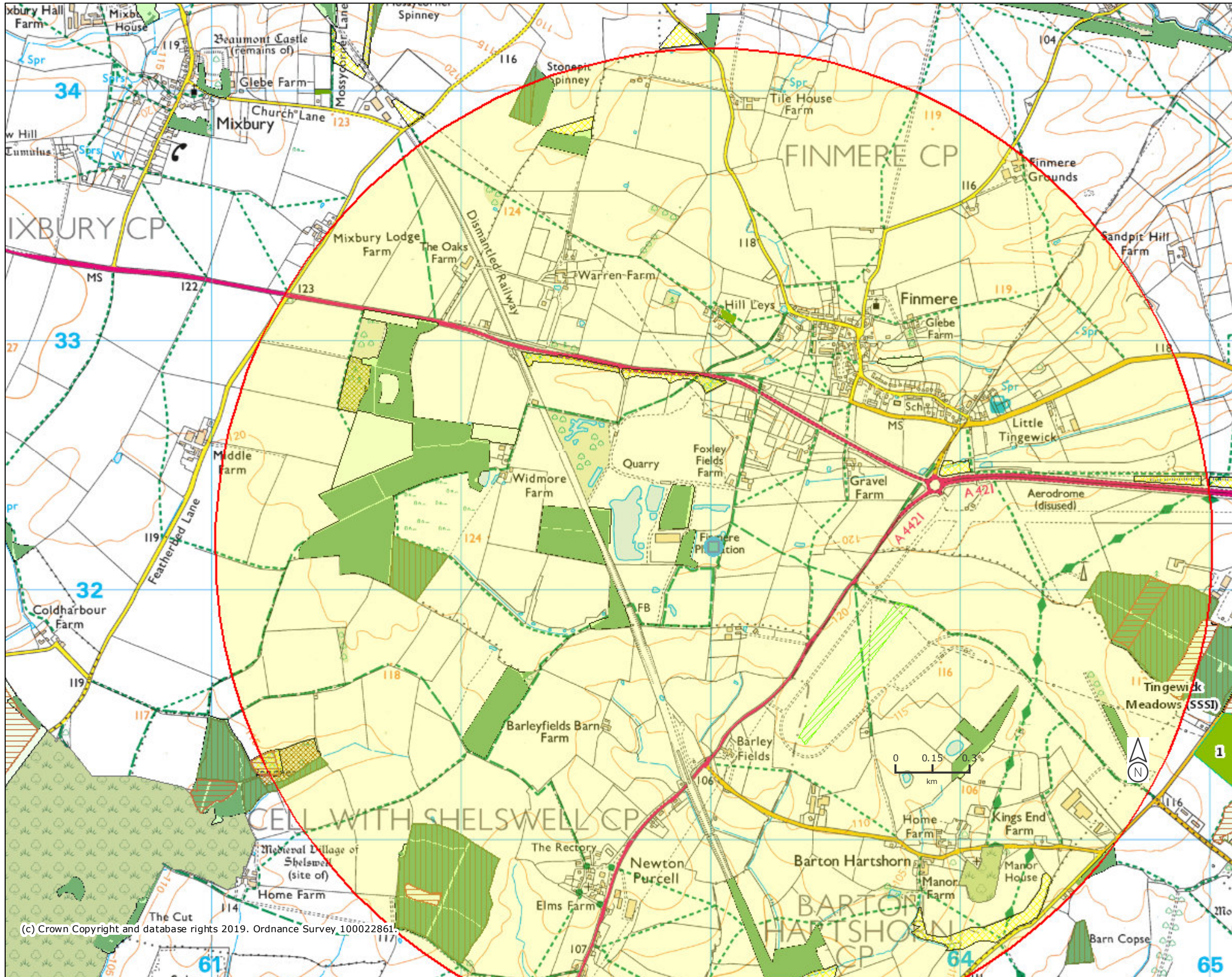
A.1 Water Quality – ‘Clean Side’

A.2 Water Quality – ‘Silt Side’

Client: AT Contracting & Plant Hire Ltd	Chemtest Job No.:				Enitial Results	Enitial Results	19-24090	19-24090	19-24899	19-26499	19-34446
	Quotation No.	Chemtest Sample ID.:					859743	859744	863099	869715	906089
		Client Sample ID.:					Silt Lagoon	Silt Lagoon	SILT LAGOON	Silt Lagoon	Silt Lagoon
		Sample Type:					WATER	WATER	WATER	WATER	WATER
	Date Sampled:					08-Jul-2019	05-Jul-2019	12-Jul-2019	19-Jul-2019	26-Jul-2019	11-Oct-2019
Determinand	Accred.	SOP	Units	LOD							
pH	U	1010		N/A	7.9	8.2	7.80	7.80	8.30	8.60	8.2
Nitrate	U	1220	mg/l	0.50			20.00	16.00	14.00	0.50	15
Sulphate	U	1220	mg/l	1.0			450.00	460.00	490.00	540.00	490.00
Cyanide (Total)	U	1300	mg/l	0.050			0.05	0.05	0.05	0.05	0.06
Thiocyanate	U	1300	mg/l	0.50			0.50	0.50	0.50	0.50	0.5
Sulphide	U	1325	mg/l	0.050			0.05	0.05	0.05	0.05	0.05
Arsenic (Dissolved)	U	1450	µg/l	1.0			1.00	1.00	1.00	1.30	1.80
Boron (Dissolved)	U	1450	µg/l	20			31.00	37.00	32.00	46.00	80.00
Cadmium (Dissolved)	U	1450	µg/l	0.080			0.08	0.08	0.08	0.08	0.08
Chromium (Dissolved)	U	1450	µg/l	1.0			1.00	1.00	1.00	1.00	4.00
Copper (Dissolved)	U	1450	µg/l	1.0			1.00	1.00	1.00	1.80	1
Mercury (Dissolved)	U	1450	µg/l	0.50			0.50	0.50	0.50	0.50	0.5
Nickel (Dissolved)	U	1450	µg/l	1.0			1.70	2.10	1.80	12.00	3.60
Lead (Dissolved)	U	1450	µg/l	1.0			3.20	1.00	1.00	1.00	1
Selenium (Dissolved)	U	1450	µg/l	1.0			2.60	3.00	2.60	5.90	3.50
Zinc (Dissolved)	U	1450	µg/l	1.0			12.00	9.40	13.00	8.10	49.00
Chromium (Hexavalent)	U	1490	µg/l	20			20.00	20.00	20.00	20.00	20.00
Naphthalene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Acenaphthylene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Acenaphthene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Fluorene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Phenanthrene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Anthracene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Fluoranthene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Pyrene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Benzo[a]anthracene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Chrysene	N	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Benzo[a]pyrene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10			0.10	0.10	0.10	0.10	0.10
Total Of 16 PAH's	N	1700	µg/l	2.0			2.00	2.00	2.00	2.00	2.00
Total Phenols	U	1920	mg/l	0.030			0.03	0.03	0.03	0.03	0.03

Max	Min	Avg	95th %
8.6	7.8	8.15	8.525
20.00	0.50	13.10	19.2
540.00	450.00	486.00	530
0.06	0.05	0.05	0.058
0.50	0.50	0.50	0.5
0.05	0.05	0.05	0.05
1.80	1.00	1.22	1.7
80.00	31.00	45.20	73.2
0.08	0.08	0.08	0.08
4.00	1.00	1.60	3.4
1.80	1.00	1.20	1.68
0.50	0.50	0.50	0.5
12.00	1.70	4.24	10.32
3.20	1.00	1.55	2.87
5.90	2.60	3.52	5.42
49.00	8.10	18.30	41.8
20.00	20.00	20.00	20
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
0.10	0.10	0.10	0.1
2.00	2.00	2.00	2
0.03	0.03	0.03	0.03

Appendix B MAGIC Search Results



Legend

- Local Nature Reserves (England)
- National Nature Reserves (England)
- National Parks (England)
- Ramsar Sites (England)
- Proposed Ramsar Sites (England)
- Sites of Special Scientific Interest Units (England)**
- Favourable Condition
- Unfavourable Recovering
- Unfavourable no change
- Unfavourable Declining
- Part Destroyed
- Destroyed
- Not Assessed
- Sites of Special Scientific Interest (England)
- Special Areas of Conservation (England)
- Possible Special Areas of Conservation (England)

Projection = OSGB36
 xmin = 458300
 ymin = 230200
 xmax = 467000
 ymax = 234600



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11/1/2019

Site Check Report Report generated on Fri Nov 01 2019
You selected the location: Centroid Grid Ref: SP63013217
The following features have been found in your search area:

Ancient Woodland (England)

Wood Name
Theme Name Ancient & Semi-Natural Woodland
Theme ID 1502986
Area (Ha) 3.605928

Wood Name
Theme Name Ancient & Semi-Natural Woodland
Theme ID 1502987
Area (Ha) 7.292525

Wood Name
Theme Name Ancient & Semi-Natural Woodland
Theme ID 1503046
Area (Ha) 6.307526

Wood Name
Theme Name Ancient Replanted Woodland
Theme ID 1502999
Area (Ha) 2.349536

Wood Name
Theme Name Ancient Replanted Woodland
Theme ID 1503030
Area (Ha) 2.347874

Wood Name Diggings Wood
Theme Name Ancient & Semi-Natural Woodland
Theme ID 1501846
Area (Ha) 3.522181

Wood Name Pondhead
Theme Name Ancient & Semi-Natural Woodland
Theme ID 1501847
Area (Ha) 0.768679

Wood Name Pondhead
Theme Name Ancient Replanted Woodland
Theme ID 1501899
Area (Ha) 0.764973

Wood Name Spiismere Wood
Theme Name Ancient & Semi-Natural Woodland
Theme ID 1501882
Area (Ha) 15.217155

Wood Name Spiismere Wood
Theme Name Ancient Replanted Woodland
Theme ID 1501925
Area (Ha) 0.67079

Wood Name Stonepit Spinney
Theme Name Ancient & Semi-Natural Woodland
Theme ID 1501844
Area (Ha) 1.119428

Priority Habitat Inventory - Deciduous Woodland (England)

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null

11/1/2019

Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.564559
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6286432325

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.254963
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6242233791

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 2.234793
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6408131414

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null

Area (Hectares) 0.744332
 Unique Parcel Reference Number (OS Grid Reference of centre point) SP6456330897

Main Habitat Present Deciduous woodland
 Confidence in Main Habitat Classification Low
 Name of 1st Data Source National Forest Inventory 2014
 Date of 1st Data Source Null
 Habitat Class of 1st Data Source Null
 Habitat Type of 1st Data Source Broadleaved
 Name of 2nd Data Source Null
 Date of 2nd Data Source Null
 Habitat Class of 2nd Data Source Null
 Habitat Type of 2nd Data Source Null
 Name of 3rd Data Source Null
 Date of 3rd Data Source Null
 Habitat Class of 3rd Data Source Null
 Habitat Type of 3rd Data Source Null
 Habitats Directive Annex 1 Null
 Other Priority Habitats Present Null
 Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
 Decision Made By Rulesets Null
 Determination Comment for Main Habitat Null
 Area (Hectares) 4.021795
 Unique Parcel Reference Number (OS Grid Reference of centre point) SP6213731508

Main Habitat Present Deciduous woodland
 Confidence in Main Habitat Classification Low
 Name of 1st Data Source National Forest Inventory 2014
 Date of 1st Data Source Null
 Habitat Class of 1st Data Source Null
 Habitat Type of 1st Data Source Broadleaved
 Name of 2nd Data Source Null
 Date of 2nd Data Source Null
 Habitat Class of 2nd Data Source Null
 Habitat Type of 2nd Data Source Null
 Name of 3rd Data Source Null
 Date of 3rd Data Source Null
 Habitat Class of 3rd Data Source Null
 Habitat Type of 3rd Data Source Null
 Habitats Directive Annex 1 Null
 Other Priority Habitats Present Null
 Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
 Decision Made By Rulesets Null
 Determination Comment for Main Habitat Null
 Area (Hectares) 3.586938
 Unique Parcel Reference Number (OS Grid Reference of centre point) SP6195932519

Main Habitat Present Deciduous woodland
 Confidence in Main Habitat Classification Low
 Name of 1st Data Source National Forest Inventory 2014
 Date of 1st Data Source Null
 Habitat Class of 1st Data Source Null
 Habitat Type of 1st Data Source Broadleaved
 Name of 2nd Data Source Null
 Date of 2nd Data Source Null
 Habitat Class of 2nd Data Source Null
 Habitat Type of 2nd Data Source Null
 Name of 3rd Data Source Null
 Date of 3rd Data Source Null
 Habitat Class of 3rd Data Source Null
 Habitat Type of 3rd Data Source Null
 Habitats Directive Annex 1 Null
 Other Priority Habitats Present Null
 Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
 Decision Made By Rulesets Null
 Determination Comment for Main Habitat Null
 Area (Hectares) 2.916223
 Unique Parcel Reference Number (OS Grid Reference of centre point) SP6331430276

Main Habitat Present Deciduous woodland
 Confidence in Main Habitat Classification Low
 Name of 1st Data Source National Forest Inventory 2014
 Date of 1st Data Source Null

11/1/2019

Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.618521
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6256732264

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 2.464196
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6175832977

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.448505
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6263631880

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null

Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 2.390438
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6229033968

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.008353
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6292632092

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.0052
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6316630658

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.315566

Unique Parcel Reference Number (OS Grid Reference of centre point) SP6337630555

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.018839

Unique Parcel Reference Number (OS Grid Reference of centre point) SP6207832597

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.019752

Unique Parcel Reference Number (OS Grid Reference of centre point) SP6199532602

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.064936

Unique Parcel Reference Number (OS Grid Reference of centre point) SP6293032174

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null

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Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.172111
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6176030686

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.004236
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6175230794

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.226914
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6328630314

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null

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Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.267529
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6311230732

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.208158
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6256931860

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.110279
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6177032403

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.067599

Unique Parcel Reference Number (OS Grid Reference of centre SP6181632648 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.090245

Unique Parcel Reference Number (OS Grid Reference of centre SP6452031986 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.002847

Unique Parcel Reference Number (OS Grid Reference of centre SP6206432460 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.031189

Unique Parcel Reference Number (OS Grid Reference of centre SP6176130945 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null

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Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.08109
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6226531662

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 4.220692
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6186730886

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.74405
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6325330460

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null

Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.162847
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6466031392

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.988263
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6173832772

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.601468
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6163032781

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.35055

Unique Parcel Reference Number (OS Grid Reference of centre SP6205932442 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	1.36147

Unique Parcel Reference Number (OS Grid Reference of centre SP6335030489 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.504504

Unique Parcel Reference Number (OS Grid Reference of centre SP6261531957 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.591812

Unique Parcel Reference Number (OS Grid Reference of centre SP6330830542 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null

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Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.280664
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6342830604

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 7.497989
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6479231950

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 2.787015
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6197330622

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null

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Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 3.522181
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6180832089

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.765353
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6181830695

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.664628
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6290232155

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 2.670765

Unique Parcel Reference Number (OS Grid Reference of centre SP6243832180 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	1.603999

Unique Parcel Reference Number (OS Grid Reference of centre SP6241732284 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	4.374977

Unique Parcel Reference Number (OS Grid Reference of centre SP6204930816 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	7.22159

Unique Parcel Reference Number (OS Grid Reference of centre SP6158932191 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null

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Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.497401
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6190931015

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 2.473847
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6156932370

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 3.205396
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6499931615

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null

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Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.589624
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6300534240

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.738928
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6174932461

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 2.06148
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6191932631

Main Habitat Present Deciduous woodland
Confidence in Main Habitat Classification Low
Name of 1st Data Source National Forest Inventory 2014
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Broadleaved
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 1.614412

Unique Parcel Reference Number (OS Grid Reference of centre SP6125231222 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	5.646134

Unique Parcel Reference Number (OS Grid Reference of centre SP6473231792 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Mixed mainly broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.242744

Unique Parcel Reference Number (OS Grid Reference of centre SP6235330352 point)

Main Habitat Present	Deciduous woodland
Confidence in Main Habitat Classification	Low
Name of 1st Data Source	National Forest Inventory 2014
Date of 1st Data Source	Null
Habitat Class of 1st Data Source	Null
Habitat Type of 1st Data Source	Mixed mainly broadleaved
Name of 2nd Data Source	Null
Date of 2nd Data Source	Null
Habitat Class of 2nd Data Source	Null
Habitat Type of 2nd Data Source	Null
Name of 3rd Data Source	Null
Date of 3rd Data Source	Null
Habitat Class of 3rd Data Source	Null
Habitat Type of 3rd Data Source	Null
Habitats Directive Annex 1	Null
Other Priority Habitats Present	Null
Identified Candidate Habitats	Main habitat: DWOOD (INV > 50%)
Decision Made By Rulesets	Null
Determination Comment for Main Habitat	Null
Area (Hectares)	0.360823

Unique Parcel Reference Number (OS Grid Reference of centre SP6235530312 point)

National Forest Inventory (GB)

Category	Woodland
Interpreted Forest Type	Conifer

Area (hectares)	1.15
Category	Woodland
Interpreted Forest Type	Conifer
Area (hectares)	5.97
Category	Woodland
Interpreted Forest Type	Conifer
Area (hectares)	0.8
Category	Woodland
Interpreted Forest Type	Conifer
Area (hectares)	0.52
Category	Woodland
Interpreted Forest Type	Conifer
Area (hectares)	0.81
Category	Woodland
Interpreted Forest Type	Mixed mainly conifer
Area (hectares)	1.91
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	3.58
Category	Woodland
Interpreted Forest Type	Conifer
Area (hectares)	2.3
Category	Woodland
Interpreted Forest Type	Conifer
Area (hectares)	0.67
Category	Woodland
Interpreted Forest Type	Conifer
Area (hectares)	2.31
Category	Woodland
Interpreted Forest Type	Broadleaved
Area (hectares)	2.31
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	0.99
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	1.45
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	0.59
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	3.4
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	1.32
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	1.11
Category	Woodland
Interpreted Forest Type	Young trees
Area (hectares)	0.87
Category	Woodland
Interpreted Forest Type	Broadleaved
Area (hectares)	0.73

Category Interpreted Forest Type Area (hectares)	Woodland Young trees 0.8
Category Interpreted Forest Type Area (hectares)	Woodland Young trees 0.64
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 5.55
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 8.43
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 1.16
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 2.42
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 4.12
Category Interpreted Forest Type Area (hectares)	Woodland Felled 1.88
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 1.41
Category Interpreted Forest Type Area (hectares)	Woodland Mixed mainly broadleaved 0.62
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 27.7
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 0.74
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 15.49
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 1.2
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 13.55
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 0.74
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 0.76
Category Interpreted Forest Type Area (hectares)	Woodland Broadleaved 4.34

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Category Woodland
Interpreted Forest Type Broadleaved
Area (hectares) 1.85

Category Woodland
Interpreted Forest Type Assumed woodland
Area (hectares) 3.67

Category Woodland
Interpreted Forest Type Broadleaved
Area (hectares) 6.49

Priority Habitat Inventory - Traditional Orchards (England)

Main Habitat Present Traditional orchard
Confidence in Main Habitat Classification Low
Name of 1st Data Source P 712 04, OSGB/UK Perspectives
Date of 1st Data Source Null
Habitat Class of 1st Data Source Null
Habitat Type of 1st Data Source Young trees in gaps
Name of 2nd Data Source Null
Date of 2nd Data Source Null
Habitat Class of 2nd Data Source Null
Habitat Type of 2nd Data Source Null
Name of 3rd Data Source Null
Date of 3rd Data Source Null
Habitat Class of 3rd Data Source Null
Habitat Type of 3rd Data Source Null
Habitats Directive Annex 1 Null
Other Priority Habitats Present Null
Identified Candidate Habitats Main habitat: TORCH (INV > 50%)
Decision Made By Rulesets Null
Determination Comment for Main Habitat Null
Area (Hectares) 0.200532
Unique Parcel Reference Number (OS Grid Reference of centre point) SP6307033095

Woodpasture and Parkland BAP Priority Habitat (England)

Polygon ID BKS_2794
Priority habitat Wood-pasture and Parkland
Reliability of interpretation Medium
Feature note Pasture
Priority qualifier Definitely present within polygon but not accurately mappable
Determination comment Null

Appendix C Risk Assessment

Receptor	Source	Harm	Pathway	Probability of exposure	Severity	Magnitude of risk	Risk management	Mitigation Factor	Residual risk
Local human population	Odour	Unpleasant odour from water stored in the SWL1 lagoon.	Air	3	2	6	<ul style="list-style-type: none"> • Serious smell is unlikely unless there is leachate breakout from the adjacent landfill which enters site drainage system. • Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks. • Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. • In the event of leachate entering the SWL1 lagoon, it will be removed by bowser and exported from site via the leachate storage tanks. • Should odour develop as a result of such an incident then the operator will deploy odour masking units until such times as the SWL1 lagoon is emptied of leachate. 	5	1.2
	Discharge of visible solids	Discharge of solids causing visible pollution of receiving water.	Water discharging to SWL1 lagoon	5	2	10	<ul style="list-style-type: none"> • Site drainage system has been designed with silt chambers to facilitate the drop out of solids prior to reaching the SWL1 lagoon. • Silt chambers will be inspected regularly for signs of build-up and silt will be removed and disposed of as required. • SWL1 has been designed with a silt side which receives water from the aggregate wash plant – this facilitates settlement of solids prior to clean water overtopping the weir into the clean side of the SWL1 lagoon. • The SWL1 lagoon is regularly inspected for material build-up and is desilted using onsite mobile plant under the site D1 exemption. 	5	2

Receptor	Source	Harm	Pathway	Probability of exposure	Severity	Magnitude of risk	Risk management	Mitigation Factor	Residual risk
Local human population	Bacteria and viruses	Bacteria and viruses causing illnesses.	Contact with water	2	4	8	<ul style="list-style-type: none"> SWL1 will only accept returned abstracted water and surface water run-off from the wider site. There will be no discharge of any sewage. 	6	1.33
Chemical and biological quality of the receiving water	Organic matter	Organic matter which removes oxygen from water causing it to become anoxic which can in turn damage plants and animals.	Water discharging to SWL1 lagoon	2	3	6	<ul style="list-style-type: none"> SWL1 will only accept returned abstracted water and surface water run-off from the wider site. There will be no discharge of any sewage. 	6	1
	Suspended solids	Suspended solids causing build-up which reduces volume in lagoon and may cause damage to plants and animals.	Water discharging to SWL1 lagoon	5	3	6	<ul style="list-style-type: none"> Site drainage system has been designed with silt chambers to facilitate the drop out of solids prior to reaching the SWL1 lagoon. Silt chambers will be inspected regularly for signs of build-up and silt will be removed and disposed of as required. SWL1 has been designed with a silt side which receives water from the aggregate wash plant – this facilitates settlement of solids prior to clean water overtopping the weir into the clean side of the lagoon. SWL1 lagoon is regularly inspected for material build-up and is desilted using onsite mobile plant under the site D1 exemption. 	5	1.2
	Ammonia	Ammonia which removes oxygen from the water and can be directly toxic causing damage to plants and animals.	Water discharging to SWL1 lagoon	3	3	9	<ul style="list-style-type: none"> Unlikely unless there is a leachate breakout at adjacent landfill which enters the drainage system Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks.⁵ Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. 	5	1.8

Receptor	Source	Harm	Pathway	Probability of exposure	Severity	Magnitude of risk	Risk management	Mitigation Factor	Residual risk
							<ul style="list-style-type: none"> In the event of leachate entering the SWL1 lagoon, it will be removed by bowser and exported from site via the leachate storage tanks. 		
Chemical and biological quality of the receiving water continued	Toxic substances	Toxic substances which damage plants and animals.	Water discharging to SWL1 lagoon	3	3	9	<ul style="list-style-type: none"> Unlikely unless there is a leachate breakout at adjacent landfill which enters the drainage system or a fire on site causing fire waters to discharge to the SWL1 lagoon. Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks. Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. In the event of leachate or fire waters entering the SWL1 lagoon, it will be removed by bowser and exported from site to a suitable third party licenced treatment facility via the leachate storage tanks. 	5	1.8
	Phosphorus	Phosphorous which in excess can stimulate plant growth and promote algae growth.	Water discharging to SWL1 lagoon	3	3	9	<ul style="list-style-type: none"> Unlikely unless there is a leachate breakout at adjacent landfill which enters the drainage system Leachate is managed in accordance with the landfill permit. Leachate removed from cells is pumped directly to dedicated leachate storage tanks. Leachate storage tanks are of a proprietary design with 110% containment provision and level monitoring. In the event of leachate entering the SWL1 lagoon, it will be removed by bowser and exported from site via the leachate storage tanks. 	5	1.8

Receptor	Source	Harm	Pathway	Probability of exposure	Severity	Magnitude of risk	Risk management	Mitigation Factor	Residual risk
Protected sites/species	Pollutants and nutrients in the discharge	Discharge of pollutants and nutrients which can adversely affect plants or animals.	Water discharging to SWL1 lagoon	2	4	8	<ul style="list-style-type: none"> SWL1 is an off-stream lagoon there will be no discharge from site and as such there will be no downstream impact. 	6	1,33
Local Environment and/or population	Flood	SWL1 Lagoon overflows and floods adjacent land/property	Water discharging to SWL1 lagoon	3	4	12	<ul style="list-style-type: none"> SWL1 lagoon levels will be monitored and volume kept below 35,000 m³. In the event of adverse weather conditions, water will be removed from the SWL1 lagoon by bowser and exported from site to reduce levels to avoid flooding. 	5	2.4

