

Hampshire Water Transfer and Water Recycling Project

Environmental Statement – Appendix 8.2 Habitats

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The Southern Water logo consists of three stylized, wavy blue lines of varying lengths, positioned to the right of the text 'Southern Water'.

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1 Introduction

1.1 Overview

- 1.1.1 This technical report has been prepared in relation to the Hampshire Water Transfer and Water Recycling Project (hereafter referred to as ‘the Proposed Development’). A detailed description of the Proposed Development can be found in Environmental Statement (ES) Chapter 3 Description of the Proposed Development, Volume I (Document reference 6.1, DCO Volume 6) and have informed the scope of this study. The Application Glossary (Document reference 1.7, DCO Volume 1) sets out the abbreviations and definitions used in the DCO application for the Proposed Development.
- 1.1.2 The Proposed Development comprises the construction, operation and maintenance of the following components:
1. Water Recycling Plant (WRP) site and associated pumping stations.
 2. Pipelines between Budds Farm Wastewater Treatment Works (WTW) and the WRP site.
 3. Pipelines between the WRP site and Bedhampton Springs, connecting to pipelines being delivered by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir.
 4. Pipeline between the WRP site and Otterbourne Water Supply Works (WSW).
 5. Above Ground Plant (AGP) comprising Intermediate Pumping Stations and Break Pressure Tanks (BPT) located along the Pipeline between the WRP site and Otterbourne WSW.
- 1.1.3 The Proposed Development would also comprise the use of, the following infrastructure:
1. Havant Thicket Reservoir (which has been consented separately by Portsmouth Water and is currently under construction) for the storage of recycled water.
 2. The existing Eastney Long Sea Outfall (LSO), Eastney Pumping Station, and associated Eastney Transfer Tunnel (TT) for the release of reject water from the WRP.
 3. Pipelines and other related works (which have been consented separately by Portsmouth Water) for the transfer of recycled water and source water between Bedhampton Springs and Havant Thicket Reservoir.
- 1.1.4 The construction and operation of the Proposed Development would be supported by other temporary and permanent works and will require the demolition, disassembly and/or temporary relocation of a number of small structures.
- 1.1.5 This report details baseline data for habitats collected between April 2022 and October 2025 and desk study data accessed in December 2024. This report is one of nine technical reports produced to inform the ecological assessment presented within ES Chapter 8 Terrestrial and freshwater biodiversity, Volume I (Document reference 6.1, DCO Volume 6). The survey scoping and methodology used for

establishing the ecological baseline for habitats is provided in Section 2 of this report.

1.2 Objectives

- 1.2.1 The Proposed Development Environmental Impact Assessment (EIA) Scoping Report (refer to ES Appendix 5.1 EIA Scoping Report, Volume II (Document reference 6.2, DCO Volume 6) identified potential effects on habitats with additional study being recommended.
- 1.2.2 To inform the assessment of likely effects on habitats the following objectives were set:
1. Undertake a desk study to identify habitats of principal importance in conserving biodiversity (HPIs) and ancient woodland within 200m of the Order Limits and Affected Road Network and protected and notable plant species within 2km of the Order Limits.
 2. Undertake habitat surveys to define the baseline conditions for all habitats that could be impacted by the Proposed Development within 50m of the Order Limits, extended to 200m from the Order Limits for habitats that could be impacted by changes in water levels and 200m from the affected road network for habitats that could be impacted by changes in air quality.

1.3 Legal context

The Environment Act 2021

- 1.3.1 The Environment Act 2021 [1] places a statutory duty on public authorities in relation to habitats through the following measures and targets:
1. Introduced biodiversity net gain and a requirement for authorities to develop Local Nature Recovery Strategies, establishing a co-ordinated approach to landscape level planning. Create or restore in excess of 500,000 hectares of wildlife-rich habitats outside protected sites by 2042, compared to 2022 levels.
 2. Increase the cover of individual trees and woodland from 14.5% to at least 16.5% of total land area in England by 31 December 2050.

Natural Environment and Rural Communities Act 2006

- 1.3.2 A list of HPIs and species of principal importance for both the conservation and enhancement of biodiversity in England (S41 species) must be published, reviewed, and revised as appropriate under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 in England [2]. As of the most recent update in 2022 the lists contain 65 HPIs and 1150 S41 species (of which 334 are vascular and non-vascular plant species) [3].
- 1.3.3 Section 40 of the NERC Act 2006 places a duty to all public authorities which have any functions exercisable in relation to England to have regard to the conservation and enhancement of biodiversity and consider what action the authority can properly take consistent with the proper exercise of its functions, to further the conservation and enhancement of biodiversity in England.

The Conservation of Habitats and Species Regulations 2017

- 1.3.4 Schedule 5 of The Conservation of Habitats and Species Regulations 2017 (as amended) [4] (Habitats Regulations) provides a list of European Protected Species (EPS) of plants. It is illegal to deliberately pick, collect, cut, uproot or destroy a wild plant of an EPS.

The Wildlife and Countryside Act 1981

- 1.3.5 Schedule 8 of the Wildlife and Countryside Act 1981 (as amended) (WCA) provides a list of endangered flora in the United Kingdom (UK) [5]. It is illegal to intentionally pick, uproot, or destroy wild plants contained on this list, including any seed or spore attached to them.
- 1.3.6 Schedule 9 of the WCA provides a list of invasive non-native species (INNS) in the UK [5]. It is an offence to plant or otherwise cause to grow in the wild any plant which is included in Part II of Schedule 9.

Hedgerows Regulations 1997

- 1.3.7 Hedgerows classified as ‘important’ due to meeting criteria under the Hedgerows Regulations 1997 [6] and are protected under the Regulations from whole or partial removal. A hedgerow is “important” if it, or the hedgerow of which it is a stretch:
1. Has existed for 30 years or more; and
 2. Satisfies at least one of the criteria listed in Part II of Schedule 1.
- 1.3.8 Of relevance to this report, the ‘Wildlife and Landscape’ criteria for the classification for important hedgerows listed in Part II of Schedule 1 are set out in section 2.5.16.

The Invasive Alien Species Regulation (Regulation (EU) 1143/2014)

- 1.3.9 The Invasive Alien Species Regulation (Regulation (EU) 1143/2014) [7] (as amended) (IASR) is a legal framework established by the European Union (EU) to prevent and manage the introduction and spread of invasive alien species. This was amended under the Invasive Non-native Species (Amendment etc.) (EU Exit) Regulations 2019 [8] to ensure operability following the UK’s exit from the EU.
- 1.3.10 The List of Invasive Alien Species of Special Concern (the Union List) is a species checklist dataset published by the Research Institute of Nature and Forest (INBO). The list contains regulated invasive species that require action at EU Level and is at the core of Regulation (EU) 1143/2014 on the prevention and management of the introduction and spread of invasive species. The Union List currently includes 88 species, comprising 47 animal species and 41 plant species.
- 1.3.11 Under the IASR, the restrictions imposed on species listed make it an offence to possess, import (into the Great Britain); keep; breed; transport to, from or within Great Britain except for the transportation of species to facilities in the context of eradication; placed on the market; use or exchange; permit to reproduce, grow or cultivate; or release into the environment invasive species of special concern.

The Invasive Alien Species (Enforcement and Permitting) Order 2019

- 1.3.12 Schedule 2 of The Invasive Alien Species (Enforcement and Permitting) Order 2019 [9] (IASO) provides a list of invasive alien species in the UK for which it is an offence for a person to plant or otherwise cause to grow in the wild. These species are considered in conjunction with those listed under Schedule 9 of the WCA. The IASO amends Schedule 9 of the WCA to omit those species from Schedule 9 which are also species of special concern.

1.4 Planning policy context

National policy

[National Planning Policy Framework 2025](#)

- 1.4.1 The National Planning Policy Framework [10] (NPPF) sets out the Government's planning policies for England and how these should be applied. It provides a framework within which locally prepared plans can be produced, including strategies for housing and other development.
- 1.4.2 Paragraph 125 states that planning policies and decisions should encourage multiple benefits from both urban and rural land, such as developments that would enable new habitat creation.
- 1.4.3 Paragraph 193 (section c) states that planning permission should be refused for developments resulting in loss or deterioration of irreplaceable habitats, including ancient woodland and ancient and veteran trees, unless there are wholly exceptional reasons and a suitable compensation strategy exists.
- 1.4.4 Irreplaceable habitats are technically very difficult (or take a very significant time) to restore, recreate or replace once destroyed, considering their age, uniqueness, species diversity or rarity. They include ancient woodland and ancient or veteran trees.

[National Policy Statement for Water Resources Infrastructure 2025](#)

- 1.4.5 The National Policy Statement for Water Resources Infrastructure 2025 [11] outlines the framework for planning and developing nationally significant water infrastructure projects in England. The statement serves as the primary basis for examination by the Examining Authority and decision-making by the Secretary of State (SoS).
- 1.4.6 Section 4.3 outlines 'Biodiversity and Nature Conservation' and sets out the need to consider the full range of potential impacts, include appropriate mitigation measures and to clearly set out any likely significant effects on habitats, including irreplaceable habitats, within the assessment. The most relevant paragraphs from Section 4.3 are summarised below.
- 1.4.7 Paragraph 4.3.7 states that mitigation must include measures such as:
1. Minimising construction areas and risks to habitats during construction and operation.
 2. Highlighting the importance of designing and landscaping developments to create green corridors, aiming to reduce habitat fragmentation where possible and reasonable.

3. Enhancing existing habitats and, where feasible, creating new habitats of ecological value within the site landscaping plans.
 4. Focusing any habitat creation, compensation or enhancement on areas providing the greatest ecological and ecosystem service benefits, with location and quality being critical factors.
- 1.4.8 Paragraph 4.3.12 states that appropriate weight should be given to HPIs. Development may be refused if significant harm to biodiversity cannot be avoided, mitigated or compensated for.
- 1.4.9 Paragraph 4.3.18 states that developers should identify ways to avoid negative effects on ancient woodland or ancient and veteran trees. This could include selecting an alternative site for development or redesigning the scheme. The SoS should not grant development consent for any development that would result in the loss or deterioration of irreplaceable habitats unless there are wholly exceptional reasons for the development, and a suitable compensation strategy exists.
- 1.4.10 Paragraph 4.3.19 states that applicants must have taken measures to ensure that habitats which receive statutory protection and HPIs are protected from the adverse effects of development.

Local policy

- 1.4.11 The local policies that are relevant to habitats are summarised in Table 1-1.

Biodiversity Action Plans

- 1.4.12 The following Biodiversity Actions Plans are also relevant to the assessment:
1. Hampshire County Council – Hampshire Biodiversity Action Plan Volume 1 and Volume 2¹ [12]
 2. Havant Borough Council – Havant Biodiversity Action Plan [13]
 3. Winchester City Council - Winchester City Council Biodiversity Action Plan [14]
 4. Fareham Borough Council – Fareham Local Biodiversity Action Plan [15]

¹ The Hampshire Biodiversity Partnership has been superseded by the Hampshire & Isle of Wight Local Nature Partnership. Action plans previously produced by the Hampshire Biodiversity Partnership will be replaced with the Hampshire & Isle of Wight Local Nature Partnership Local Nature Recovery Strategy (LNRS) once the LNRS has been produced. This document is still referenced as the LNRS has not been prepared yet.

Table 1-1 Relevant local planning policy

| Document | Policy |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| East Hampshire District Local Plan: Joint Core Strategy (2014) [16] | Core Policy 21 Biodiversity states that developments must protect and enhance features, such as important trees, rivers and hedgerows. |
| Eastleigh Borough Council Local Plan 2016-2036 [17] | Policy DM11 Nature conservation states that impacts on priority habitats will not be permitted unless it can be demonstrated that: <ul style="list-style-type: none"> • There are no alternative solutions • The adverse effects are unavoidable • Measures are taken to mitigate or, as a last resort, compensate for the adverse effects • There is an overall biodiversity net gain • If there are any residual adverse effects, the benefits of the development clearly outweigh the adverse effects on priority habitats, priority and protected species, and the local ecological network |
| Fareham Local Plan 2037 (2023) [18] | Strategic Policy NE6 - Trees, Woodland and Hedgerows states that developments must: <ul style="list-style-type: none"> • Retain protected or non-protected trees, hedgerows, and woodland, particularly those with high amenity value • If removal is justified, provide suitable replacements in terms of number, species, and size • New trees, woodland, and hedgerows should be provided where practicable • Removal of protected trees, veteran trees, ancient woodland or hedgerows is only permitted in exceptional circumstances |
| Havant Borough Core Strategy (2011) [19] | Policy CS11 Protecting and Enhancing the Special Environment and Heritage of Havant Borough states that planning permission will be granted for development that: <ul style="list-style-type: none"> • Has particular regard to the hierarchy of nature conservation designations within the borough, including ancient woodland • Protects and where possible enhances the borough’s habitats • Incorporates partnership working with landowners and developers to ensure land management practices restore, enhance and where appropriate create new valued habitats • Protects wildlife habitats and wildlife corridors to prevent the fragmentation of existing habitats |

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| Document | Policy |
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| Portsmouth Plan (The Portsmouth Core Strategy) (2012) [20] | Policy PCS13 - A Greener Portsmouth requires that development is informed and influenced by the presence of trees on site, particularly those protected by a Tree Protection Order (TPO) or within a conservation area. If the removal of any tree is unavoidable (following best arboricultural practice) a replacement tree of at least equal value to that lost should be planted on site unless it is shown to be impractical to do so. |
| Your Place Your Plan. Local plan Regulation 19 Document for Consultation - June 2024 (submitted for an independent examination on 15th November 2024) | <p>Policy NE15 – Special Trees, Important Hedgerows and Ancient Woodlands sets out guidance regarding development and its impact on ancient woodlands, hedgerows and special trees:</p> <ul style="list-style-type: none"> • The loss or deterioration of ancient woodlands, veteran trees, protected trees, and significant flora is only allowed in exceptional circumstances and in compliance with relevant laws and best practices • The removal of protected trees or hedgerows must be unavoidable and accompanied by suitable replacement planting • Adequate protection zones are required, with at least a 15m buffer for ancient woodlands or veteran trees • Development must include measures to restore, enhance, or plant new trees, woodlands, or hedgerows with suitable species to support site conditions, biodiversity and climate adaptation |
| South Downs Local Plan Adopted 2 July 2019 (2014-2033) [21] | <p>Strategic Policy SD9: Biodiversity and Geodiversity states that development proposals which result in the loss or deterioration of irreplaceable habitats, including ancient woodland and veteran trees will be refused unless there are wholly exceptional reasons, and a suitable compensation strategy exists.</p> <p>Policy 'SD11 – Trees, Woodland and Hedgerows' sets out that:</p> <ul style="list-style-type: none"> • Developments must conserve and enhances trees, hedgerows, and woodlands and be informed by ecological and arboricultural surveys, with a management plan; • Protected trees and hedgerows can only be removed in exceptional cases, requiring suitable replacements, while loss of non-protected trees should be avoided, or compensated if unavoidable; • Adequate protection zones and buffers must prevent damage, with a minimum 15m buffer for ancient woodland or veteran trees; and • Protection measures should be in place before development begins, alongside opportunities for restoration and new planting using native species to enhance local habitats. |

1.5 Guidance

Conservation status for flora

Nationally rare and nationally scarce

- 1.5.1 In Britain, the Ordnance Survey (OS) uses a grid system with 10km x 10km squares to map and record plant locations. A plant is considered 'nationally rare' if it is found in 1-15 of these 10km squares. This means it has a very limited distribution and may be vulnerable to environmental changes, habitat loss, or other pressures. A plant is considered 'Nationally Scarce' if it is found in 16 to 100 of these 10km squares.

Red data books

- 1.5.2 The British Red Data Books (RDB) were published as part of the Species Status Assessment project to assign conservation status to British flora and fauna using the International Union for Conservation of Nature (IUCN) RDB criteria and categories.
- 1.5.3 The latest version of the Vascular Plant Red Data List expanded the assessment to include all native and archaeophyte taxa and the assessment considers factors like population decline, habitat loss and distribution change. Categories include 'Critically Endangered', 'Endangered', 'Vulnerable' and 'Near Threatened', and are defined as follows:
1. Critically Endangered (CE) – Species facing an extremely high risk of extinction in the wild
 2. Endangered (EN) – Species facing a very high risk of extinction
 3. Vulnerable (VU) – Species facing a high risk of extinction
 4. Near Threatened (NT) – Species that are close to qualifying for a threatened category

2 Methodology

2.1 Background

- 2.1.1 This section describes the methodology used to establish the ecological baseline for habitats. The baseline has been designed to identify the distribution of habitats and their value within the 'Zone of Influence' (Zol).
- 2.1.2 The purpose of the habitat desk study and field study is to facilitate the application of the mitigation hierarchy in the design and assessment process to avoid, where possible, potential effects to sensitive or important habitats.

2.2 Study guidance

- 2.2.1 The following guidance has been considered in the methodology design:
1. Guidelines for Preliminary Ecological Appraisal [22]
 2. The UK Habitat Classification User Manual Version 2.01 [23]
 3. The Statutory Biodiversity Metric User Guide [24]
 4. The Statutory Biodiversity Metric Condition Assessment Sheets [25]
 5. National Vegetation Survey Classification Users' Handbook [26]
 6. British Plant Communities Volume 1 [27]
 7. British Plant Communities Volume 2 [28]
 8. British Plant Communities Volume 3 [29]
 9. British Plant Communities Volume 4 [30]
 10. British Plant Communities Volume 5 [31]
 11. Field Surveys for Ancient Woodlands: Issues and Approaches [32]
 12. House of Parliament Post Note Ancient Woodland [33]
 13. Hedgerow Survey Handbook [34]
 14. Guidance on the Identification and Risk Assessment of Groundwater Dependent Terrestrial Ecosystems [35]

2.3 Zone of Influence

- 2.3.1 The geographical scope of the assessment has been informed by:
1. The Order Limits which include temporary land take for temporary construction compounds, as shown on ES Figure 1.1 Location of the Proposed Development and Order Limits, Volume III (Document reference 6.3, DCO Volume 6), access routes and lay down sites.
 2. The likely effects of the Proposed Development on ecological features within the Zol.
- 2.3.2 The Zol is the area over which ecological features may receive impacts from a development. It covers the Order Limits and the wider landscape where pathways (ecological or hydrological links) exist for the transfer of impacts away from the

works area. The Zol for each ecological feature varies in size depending on the nature of the effects and the sensitivity of the ecological features to those effects.

2.3.3 Each Zol has been determined by:

1. Consideration of the activities during construction and operation associated with the Proposed Development.
2. The scale, duration and timing of the works.
3. Ecological data, including aerial photography and OS mapping, biological records of protected and notable species and baseline data collected from field surveys.

2.3.4 Based on the scale and duration of the Proposed Development it is considered that construction activities within the Order Limits will typically produce temporary and localised impacts. Different desk study areas were applied for each category of ecological feature, as appropriate, to enable effective assessment of potential effects on each ecological receptor.

2.3.5 The Zol, desk study area and field survey area for habitats, are detailed within Table 2-1.

Table 2-1 Habitats Zone of Influence, desk study areas and field survey areas

| Ecological Receptor | Zol | Desk study area | Field survey area |
|------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Habitats (including HPis, ancient woodland, and hedgerows) | 200m | Order Limits excluding the tunnel to Eastney LSO plus 2km for biological records. Order Limits and affected road network plus 200m for ancient woodland. Order Limits plus 200m for ancient, veteran and notable trees and HPis. | Order Limits plus 50m; excluding the tunnel to Eastney LSO, Havant Thicket Reservoir, the pipelines being delivered by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir and proposed tunnel sections. In addition, for habitats likely to be sensitive to hydrology, the field survey area was the Order Limits plus 200m, excluding Havant Thicket Reservoir, pipelines being delivered by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir and the tunnel to Eastney LSO. |

2.3.6 For most habitats, the Zol is 50m. This is extended to 200m from the Order Limits to account for potential hydrological impacts and 200m from the affected road network concerning the impacts of changes in air quality. With regards to potential risks from road traffic emissions, Natural England (NE) and Highways England are in agreement that protected sites falling within 200m of the edge of a road receiving additional traffic need to be considered further [36] and thus, this was considered to be an appropriate Zol for air quality impacts on habitats. The Zol is reduced to 30m when considering direct impacts of the Proposed Development. The desk study area for biological records is the Order Limits plus 2km to capture notable and protected plant records, as well as invasive plant species, that could be relevant to the Proposed Development.

- 2.3.7 The Proposed Development includes the use of Havant Thicket Reservoir for the storage of recycled water, the use of the Eastney LSO, Eastney Pumping Station, and associated Eastney Transfer Tunnel for the release of reject water from the WRP site. The Proposed Development also uses pipelines that have been consented and will be constructed separately by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir. These components are considered as part of the future baseline and are, therefore, considered to be existing infrastructure. As such, the terrestrial and freshwater biodiversity assessment only considers the operational change of use.
- 2.3.8 Tunnelled sections within the Order Limits (with the exception of associated compounds) were excluded from the field survey area as there are no anticipated impact pathways to habitats within these areas, with the exception of potential hydrological impacts.

2.4 Desk study

Data search

- 2.4.1 A desk study involving the collection of existing protected and notable species records, and spatial habitats data, together with a review of designated site citations was undertaken within the areas described in Table 2-1.
- 2.4.2 An arboricultural survey was commissioned for the Proposed Development and the methods and results of this work are contained in Appendix 13.5 Arboricultural Impact Assessment, Volume II (Document reference 6.2, DCO Volume 6).
- 2.4.3 A UK Habitat Classification (UKHab) and National Vegetation Classification (NVC) survey was separately commissioned by Portsmouth Water at Farlington WTW [37]. Part of the surveyed area falls within the field survey area and therefore this data was shared with the Southern Water Services Limited (the Applicant) and has been incorporated into the baseline.
- 2.4.4 Data sources are as follows:
1. Historic records of protected and notable vascular plant, bryophyte, lichen and stonewort species, non-native invasive plant species, citations for non-statutory designated sites and HPis, all collated from the Hampshire Biodiversity Information Centre (HBIC) [38]
 2. Historic records of ancient, veteran and notable trees collated from the Woodland Trust's Ancient Tree Inventory
 3. The Forestry Commission's National Forest Inventory to provide accurate boundaries for woodland habitats
 4. Natural England Ancient Woodland Inventory sites
 5. Natural England review of ancient woodland sites undertaken in 2024
 6. Natural England Priority Habitats dataset
 7. Ordnance Survey data layers to provide accurate mapping of habitats, roads, rivers and waterbodies
 8. Flyover imagery from APEM commissioned for the Proposed Development was converted to Phase 1 habitat types and used as a reference for habitat mapping

2.5 Field survey

2.5.1 UKHab surveys were undertaken to record the habitats and plants present. A selection of sites was subject to more detailed botanical surveys including NVC and Hedgerows Regulations survey, as identified by the desk study and UKHab surveys. The survey methods are described below.

UKHab classification

2.5.2 Habitat surveys were undertaken in accordance with the UK Habitat Classification User Manual Version 2.01 [23]. Surveys were undertaken between 2022 and 2024, with those undertaken in 2022 resurveyed in 2025 to revalidate the findings. Most surveys were undertaken between April and September.

2.5.3 The UKHab Classification System has a primary hierarchy of five levels from major ecosystems at level 1, through ecosystem type at level 2, broad habitats at level 3 and specific habitats at levels 4 and 5. Level 4 includes 85 habitats, including 46 HPis. Level 5 includes 119 habitats, including 72 Annex 1 habitats. The primary code classification has been supplemented by secondary codes to provide more information. Some classification codes are mandatory in the classification of certain habitat types such as ponds and traditional orchards.

2.5.4 Habitats were mapped in the field using the fine-scale Minimum Mapping Unit as outlined within the UK Habitat Classification User Manual Version 2.01 [23]. Therefore, habitat areas have only been mapped if they are equal to or greater than 25m² or 5m in length. Habitats meeting these criteria were mapped during the field surveys as either polygons or lines. The Global Positioning System (GPS) was used to map habitat information in the field, including recording target notes.

2.5.5 Habitats up to 200m from the Order Limits for the Summer 2024 consultation (29 January 2024) [39] were scoped in for survey where they were identified as potential groundwater dependent terrestrial ecosystems (GWDTE) that could be impacted by the Proposed Development. The process for identifying such sites was as follows:

1. Groundwater dependent terrestrial ecosystems habitat types were converted into a list of their respective HPI equivalents using Annex 1 tables within the UK Technical Advisory Group (UKTAG) Guidance on the Identification and Risk Assessment of GWDTE [35].
2. Using HPI data from HBIC, potential GWDTE were identified using the shortlist of HPI types in step i, and assessed for:
 - a. Their likelihood of groundwater dependence (unlikely, possible or likely)
 - b. Their likelihood of connection to the Proposed Development (unlikely, possible or likely)
3. All shortlisted potential GWDTE that had not already been surveyed were subject to UKHab surveys and NVC surveys as required.

Condition assessment

2.5.6 Condition assessments were undertaken within areas of the Order Limits within the field survey area in accordance with the Statutory Biodiversity Metric Condition

assessment methodology [25]. Habitats may vary in condition, therefore where habitats were classified as the same habitat type but have different conditions, they were split into separate polygons. Habitats that could not be surveyed within the Order Limits were precautionarily assigned good condition.

National Vegetation Classification survey

- 2.5.7 Botanical surveys were undertaken in accordance with the National Vegetation Survey Classification Users’ Handbook [26]. The surveys were completed in 2022 to 2024, during the months of April (specifically for when surveying woodlands), May, June, July and August.
- 2.5.8 Habitats were scoped in for NVC survey if they met any of the following criteria:
1. Identified as very high, high or potentially high distinctiveness according to the Statutory Biodiversity Metric User Guide [24].
 2. Sites designated for botanical or habitat features or for potentially supporting protected or notable plant species as identified from the desk study.
- 2.5.9 The identification of NVC plant communities has been used to establish whether the habitats are HPIs or Annex 1 habitats and gather more detail on the habitat type and information on the conservation value of the habitats. NVC surveys have also informed the identification of the presence of protected and/or notable plant species.
- 2.5.10 At each site, habitats were sampled using vegetation quadrats. Stands of homogenous vegetation were identified and sampled with a minimum of five quadrats of a size appropriate to the vegetation being surveyed. A full list of species present within each quadrat has been recorded and abundance assessed using the Domin scale as detailed in Table 2-2.

Table 2-2 Assessment of percentage cover using the Domin Scale

| Domin Scale | Cover |
|-------------|----------------------------------|
| 10 | 91-100% |
| 9 | 76-90% |
| 8 | 51-75% |
| 7 | 34-50% |
| 6 | 26-33% |
| 5 | 11-25% |
| 4 | 4-10% |
| 3 | Less than 4% many individuals |
| 2 | Less than 4% several individuals |
| 1 | Less than 4% few individuals |

Source: (Rodwell: 2006)

- 2.5.11 Homogenous stands of vegetation were mapped and assigned to units of the NVC, to sub-community where possible. Assignment of units of the NVC was largely made during analysis of the survey results. Representative quadrat samples of the main vegetation types at each site were collected to support the assignment of

homogenous stands to NVC units and to provide detailed records of vegetation composition and structure. The sampling method followed standard NVC methods.

- 2.5.12 The nomenclature for vascular plants follows the Botanical Society of Britain and Ireland Taxon List [40] for both scientific and English names. The bryophyte nomenclature follows the British Bryological Society for scientific names [41]. Each stand of homogenous vegetation has been assigned to a community and sub community type using the five-volume series titled British Plant Communities Volume 1, Woodlands and Scrub [27], Volume 2, Mires and Heaths [28], Volume 3, Grasslands and Montane Communities [29], Volume 4, Aquatic Communities, Swamps and Tall Herb Fens [30] and Volume 5, Maritime Communities and vegetation of Open Habitats [31].
- 2.5.13 Each plant species' conservation status was checked against the Vascular Plant Red Data List for Great Britain [42] and the England Red List [43]. These sources use threat categories from the IUCN Red List [44] to assess a plant species' conservation status as Least Concern (LC), VU, EN, or CE.
- 2.5.14 For all NVC habitats, the soil type of each site was gathered from the Land Information System (LandIS) database [45]. For woodland habitats, each plant species' Ancient Woodland Indicator (AWI) status was checked against the Hampshire AWI Key in the Wildflower Key [46].

Hedgerows Regulations surveys

- 2.5.15 Hedgerows were surveyed to comply with the requirements of the “Wildlife and Landscape criteria” in the Hedgerows Regulations 1997 [34].
- 2.5.16 Depending on the length of the hedgerow, this survey involved recording the criteria for the classification for important hedgerows listed in Part II of Schedule 1. The criteria included the following:
1. Contains species listed in the WCA, Red Data Birds (declining), RDB (extinct, rare, endangered and vulnerable) or Joint Nature Conservation Committee (JNCC) publications, or
 2. Within an average 30m section, the hedgerow contains one of the following:
 - a. at least seven woody species
 - b. at least six woody species and has at least three associated features
 - c. at least six woody species, including a black poplar tree *Populus nigra*, large leaved lime *Tilia platyphyllos*, small-leaved lime *Tilia cordata* or wild service tree *Sorbus torminalis*
 - d. at least five woody species and has at least four associated features
 - e. at least four woody species, at least two associated features (see below) and is adjacent to a bridleway, footpath or public road
- 2.5.17 Associated hedgerow features include:
1. a bank or wall along at least half of the length
 2. gaps combined represent less than 10% of the total length
 3. where the length of the hedgerow does not exceed 50m, at least one standard tree

4. one tree every 50m (on average)
5. at least three woodland indicator plant species within 1m
6. a ditch along at least half of the length
7. at least four connections to other hedgerows, ponds or parcels of woodland
8. a parallel hedge within 15m

2.5.18 The start and end points of each hedgerow were recorded with at least an eight figure OS grid reference using GPS. The total number of other hedgerow connections to the hedgerow being surveyed has also been recorded, as recommended in the Department for Environment, Food and Rural Affairs (Defra) Hedgerow Survey Handbook [34].

2.5.19 Hedgerows were recorded and mapped using a sequential numerical referencing system. Hedgerows were mapped from aerial photography in advance of survey so that survey sections and nodes can be identified. Hedgerow surveys were undertaken between April and early October 2024.

2.6 Desk-based scoping

2.6.1 A desktop UKHab assessment was undertaken where a field survey was not possible due to access constraints or changes to the Order Limits following the surveys. The methodology for this assessment is described in the steps below:

1. Each habitat was assessed using the available desk study data (HBIC HPI data and primarily APEM and OS imagery, or in the case of those habitats with no APEM data available, just OS imagery).
2. The habitat was assigned a UKHab code to level 4 of the hierarchical system described in the UK Habitat Classification User Manual Version 2.01 [23] where feasible, except for roads and buildings which could be classified to level 5.

2.6.2 The results of the UKHab desk-based assessment are provided in section 3.2 in conjunction with the field survey results.

2.7 Limitations and assumptions

2.7.1 Protected and notable species records are recorded within three sizes of hectads: 10m-by-10m, 1km-by-1km and 10km-by-10km. Those associated with hectads that fall within or intersect the Order Limits are identified, however the exact location of the plant record within the hectad is unknown.

2.7.2 The assessment has been derived from habitat data from several sources. In total, 90% of the field survey area has been subject to UKHab field survey. Data collected via the desk study accounts for the remaining 10% of the field survey area. Of the 10%, there is 9% that is classified as urban and sealed surface land such as roads, residential areas and buildings and so is not relevant to this assessment. A total of 125 hedgerows within the field survey area were not subject to Hedgerows Regulations Surveys, of which 56 were within the Order Limits.

2.7.3 In some instances, UKHab surveys were not conducted within the optimal period for cropland with no arable field margins and urban parcels. One of the Hedgerows Regulations surveys (H221) was undertaken in November, outside the optimum survey period. However, this was not considered to be a limitation, since woody

species were still evident and only four were recorded, meaning that woodland species are not relevant to the assessment of importance.

- 2.7.4 Eight habitat parcels identified as potential GWDTE were not subject to UKHab surveys due to changes to the Order Limits following the field surveys or a lack of access. The assessment has assumed that they meet the relevant HPI criteria:
1. Two parcels of wet woodland HPI immediately west of Budds Farm WTW within the Pipelines between Budds Farm WTW and WRP site.
 2. Three parcels of wet woodland HPI within Otterbourne Park Wood west of the pipeline at Section M: Brambridge to Otterbourne WSW (Section M).
 3. A parcel of fen marsh and swamp, also designated as coastal and floodplain grazing marsh HPI, located south of Highbridge, south of the pipeline at Section L: Lower Upham to Brambridge (Section L).
 4. A parcel of lowland meadow HPI located east of Crowdhill, south of the pipeline at Section L.
 5. A parcel of lowland meadow HPI located south of Highbridge, south of the pipeline at Section M.
- 2.7.5 There were 16 NVC surveys for woodland sites (sites 2, 4, 5, 6, 8, 9, 10, 11, 12, 32, 34, 35, 36, 38, 40, 42) completed outside of the optimal survey period for woodland, during July 2023 and August 2024. As different AWI ground flora species are most evident at different times of survey season (April – August), at any given time not all AWI may be detected. Therefore, these NVC surveys may not have detected all early flowering plants. However, a second UKHab survey was completed for sites 32 and 34 in May, during the optimal season for woodland surveys to detect early flowering AWIs (April – June). For the remaining sites, this remains a limitation. Where the woodlands were smaller than 50m by 50m, the canopy quadrats were adjusted to suit to the woodland dimensions.

3 Results

3.1 Desk study

Ancient woodland and ancient, veteran and notable trees

- 3.1.1 All parcels of ancient woodland within 200m of the Order Limits and affected road network are shown on ES Figure 8.5 Ancient Woodland and ancient, veteran and notable trees within the desk study area, Volume III (Document reference 6.3, DCO Volume 6). This includes ancient semi-natural woodland (ASNW), plantation on ancient woodland sites (PAWS) and Infilled Ancient Wood Pasture and Parkland (IAWPP). This also includes new woodlands and updates associated with NEs review of the Ancient Woodland Inventory that was undertaken in 2024. A list of relevant sites within the desk study area is found in Table A-1 within Annex A.
- 3.1.2 There are 62 parcels of ancient woodland within the desk study area that are relevant to the assessment, consisting of 54 parcels of ASNW, seven parcels of PAWS and one parcel of IAWPP. A total of 10 parcels of ANSW and three PAWS are within 30m of the Order Limits, of which four are adjacent to the Order Limits within the Pipeline between the WRP site and Otterbourne WSW:
1. Carpenters Copse (ID: 1463; Section F: Boarhunt to Crockerhill (Section F))
 2. Kimbers Copse (ID: 2502; The River Hamble to Lower Upham (Section K))
 3. Unnamed woodland (ID 0319; Section L: Lower Upham to Brambridge (Section L))
 4. Sparrowgrove Copse (ID 3410; Section M: Brambridge to Otterbourne WSW (Section M))
- 3.1.3 Two ancient, veteran and notable trees from the Woodland Trust's Ancient Tree Inventory were located within the desk study area and are included in Table A-1 within Annex A. One of these trees was mapped incorrectly. An oak *Quercus* sp. (ID 32630), was mapped adjacent to the Order Limits along Section L. However, the arboricultural field survey identified that this tree (T70) was located within the Order Limits, approximately 21m east of temporary construction compound L-4. The second tree was located over 30m from the Order Limits at the WRP site to Bedhampton Springs component.
- 3.1.4 The arboricultural field survey identified a veteran common beech *Fagus sylvatica* (T1430) that was not included in the Ancient Tree Inventory but is located within the Limits of Deviation at Bedhampton Springs. For full details of all other ancient, veteran and notable trees refer to Appendix 13.5 Arboricultural Impact Assessment, Volume II (Document reference 6.2, DCO Volume 6).
- 3.1.5 All ancient veteran and notable trees collated from the Woodland Trust's Ancient Tree Inventory within the desk study area and T1430 are shown on ES Figure 8.5 Ancient Woodland and ancient, veteran and notable trees within the desk study area, Volume III (Document reference 6.3, DCO Volume 6).

Habitats of principal importance in conserving biodiversity

3.1.6 HPIs within the desk study area derived from HBIC are shown in ES Figure 8.4 Habitats of principal importance for conserving biodiversity within the desk study area, Volume III (Document reference 6.3, DCO Volume 6). There are 13 HPIs within the desk study area that are relevant to the assessment that are listed below. These all fall within the Order Limits, apart from purple moor grass and rush pastures and lowland dry acid grassland:

1. Coastal saltmarsh
2. Coastal sand dunes
3. Coastal vegetated shingle
4. Intertidal mudflats
5. Purple moor grass and rush pastures
6. Lowland dry acid grassland
7. Lowland calcareous grassland
8. Lowland meadows
9. Rivers
10. Wet woodland
11. Lowland mixed deciduous woodland
12. Wood-pasture and parkland
13. Coastal and floodplain grazing marsh

Protected and notable plants

3.1.7 The data search returned 632 records of protected or otherwise notable plant species within 2km of the Order Limits, consisting of 123 different plant species.

3.1.8 No records of plant species listed on Schedule 5 of the Habitats Regulations were returned. Three are protected under Schedule 8 of the WCA: Jersey cudweed *Gnaphalium luteoalbum*; field cow-wheat *Melampyrum arvense*; and lizard orchid *Himantoglossum hircinum* although these records do not fall within hectads within the Order Limits.

3.1.9 A total of 38 are 'Nationally Scarce' and five are 'Nationally Rare' including four-leaved allseed *Polycarpon tetraphyllum*, field cow-wheat, hairy vetchling *Lathyrus hirsutus* and box *Buxus sempervirens*. A total of 13 are S41 species and some have Vascular Plant England Red Data Lists ratings. This includes 49 species listed as 'Near Threatened', 14 species as 'vulnerable', four species as 'Endangered' (annual knawel *Scleranthus annuus*, nettle-leaved goosefoot *Chenopodium murale*, field cow-wheat and spreading hedge-parsley *Torilis arvensis*) and one species, red hemp-nettle *Galeopsis angustifolia*, as 'critically endangered'. There are 61 plant species listed as 'scarce' and 18 as 'rare' within Hampshire.

3.1.10 Of the notable species records, total of 40 were recorded within a hectad that falls within or intersects the Order Limits including:

1. Four species, chalk eyebright *Euphrasia pseudokernerii*, slender hare's-ear *Bupleurum tenuissimum*, chamomile *Chamaemelum nobile* and cornflower *Centaurea cyanus*, are S41 species.
2. Two species are 'nationally rare' including hairy vetchling and twelve are 'Nationally Scarce'.
3. Eighteen species are 'scarce' within Hampshire.
4. Four species, autumn lady's-tresses *Spiranthes spiralis*, sea wormwood *Seriphidium maritimum*, rye brome *Bromus secalinus* and yellow-horned poppy *Glaucium flavum* are 'near threatened' on the Vascular Plant England Red Data Lists and 12 species, are 'vulnerable'.

Non-native invasive species

- 3.1.11 The data search returned 950 records of INNS of plants within 2km of the Order Limits, consisting of 74 different plant species.
- 3.1.12 There are 271 records of invasive plant species listed under Schedule 9 of the WCA, consisting of 23 different species.
- 3.1.13 There are 52 records of invasive plant species listed under the IASO, comprising six species, of which three are terrestrial: Himalayan balsam *Impatiens glandulifera*, giant rhubarb *Gunnera manicata* and giant hogweed *Heracleum mantegazzianum*; only the Himalayan balsam records fall within hectads inside the Order Limits. There are 14 records of invasive plant species listed under the IASR, comprised of three species, of which only one is terrestrial: American skunk cabbage *Lysichiton americanus*.
- 3.1.14 A total of 11 INNS of plants listed under Schedule 9 of the WCA fall within or inside a grid square that intersects the Order Limits, including the following terrestrial species:
 1. Himalayan balsam
 2. Montbretia *Crocasmia x crocosmifolia*
 3. Wall cotoneaster *Cotoneaster horizontalis*
 4. Three-cornered leek *Allium triquetrum*
 5. Japanese knotweed *Reynoutria japonica*
 6. Few flowered garlic *Allium paradoxum*
 7. Japanese rose *Rosa rugosa*
- 3.1.15 ES Figure 8.6 Invasive non-native terrestrial plant species within the desk study area, Volume III (Document reference 6.3, DCO Volume 6) shows the INNS of plants that were recorded within the desk study area.

3.2 Field survey

All components

UKHab classification

- 3.2.1 An overview of area habitats within the field survey area is found in Table 3-1. The results are shown in ES Figure 8.7 UK Habitat Classification for polygons within

the field survey area, Volume III (Document reference 6.3, DCO Volume 6). The total area within the field survey area is approximately 774 hectares which includes parts of the Order Limits plus 50m as defined in Table 2-1. Freshwater and marine habitats are listed in Table 3-1, but are considered in ES Appendix 8.9 Freshwater ecology, Volume II (Document reference 6.2, DCO Volume 6) and ES Appendices 9.1 to 9.11, Volume II (Document Reference 6.2, DCO Volume 6).

Table 3-1 UK Habitat Classification area habitats

| UKHab code | UKHab description | Size (ha) | % coverage of the field survey area |
|------------|----------------------------------|-----------|-------------------------------------|
| g and g4 | Grassland and modified grassland | 316.2 | 41.1 |
| c1 | Cropland | 225.3 | 29.3 |
| u1 | Built-up areas and gardens | 73.3 | 9.5 |
| g3 | Neutral grassland | 64.7 | 8.4 |
| w1 | Deciduous woodland | 59.9 | 7.8 |
| h3 | Dense scrub | 8.3 | 1 |
| t2 | Littoral sediment | 6.3 | <1 |
| g2 | Calcareous grassland | 6.8 | <1 |
| f2 | Fen marsh and swamp | 3.2 | <1 |
| r2 | Rivers and streams | 1.8 | <1 |
| r1 | Standing open water and canals | 1.7 | <1 |
| w2 | Coniferous woodland | 1 | <1 |
| g1 | Acid grassland | 0.2 | <1 |
| s3 | Supralittoral sediment | 0.2 | <1 |

3.2.2 UKHab survey results for potential GWDTE within 200m of the Order Limits are summarised in Table 3-2, which are shown in ES Figure 8.8 UK Habitat Classification for potential groundwater dependent terrestrial ecosystems within the field survey area that have potential to be impacted by the Proposed Development, Volume III (Document Reference 6.3, DCO Volume 6). The areas comprise the entire parcels within and beyond 200m from the Order Limits.

Table 3-2 UK Habitat Classification area habitats for potential groundwater dependent terrestrial ecosystems within 200m of the Order Limits

| UKHab code | UKHab classification | Size (ha) |
|------------|-------------------------------------|-----------|
| f2b | Purple moor grass and rush pastures | 0.8 |
| f2e | Reedbeds | 4.3 |
| f2f | Other wetlands | 3.6 |
| g3a | Lowland meadow | 0.5 |
| g3c | Other neutral grassland | 4.6 |
| g4 | Modified grassland | 0.9 |
| w1d | Wet woodland | 11.1 |
| w1f | Lowland mixed deciduous woodland | 1.0 |

3.2.3 Potential GWDTE were recorded in discrete locations, associated with wet woodland and reedbeds at Budds Farm WTW; wet woodland east of Wickham

Meadow Site of Importance for Nature Conservation (SINC); purple moor grass and rush pastures within Wickham Meadow SINC; wet woodland within the River Meon floodplain; scattered wet woodland at Wickham Park and Gravel Pit Copse; wet woodland and lowland mixed deciduous woodland with an NVC quadrat of wet woodland south of Brooklands Farm; wet woodland east of Highbridge; the River Itchen floodplain (reedbed and wet woodland); and other wetlands east of Otterbourne Park Wood.

- 3.2.4 Lowland meadow was not recorded during the surveys but is included in Table 3-2 where HPI data indicates its presence, but it was not possible to ground truth due to a lack of access for survey.
- 3.2.5 Modified grassland is included in Table 3-2 where HPI data indicates it is lowland meadow but surveys classifying it as modified grassland were undertaken out of season, meaning it was not possible to entirely discount it as a GWDTE.
- 3.2.6 An overview of the linear habitats recorded within the field survey area is provided in Table 3-3, which are shown in ES Figure 8.9 UK Habitat Classification for linear features and Important hedgerows within the field survey area, Volume III (Document reference 6.3, DCO Volume 6). A schedule of hedgerows, including the results of the UKHab surveys is found in Table B-1 of Annex B.

Table 3-3 UK Habitat Classification linear habitats

| UKHab code | UKHab classification | Length (km) |
|------------|-----------------------------------------------|-------------|
| h2a | Native hedgerow | 20.43 |
| h2a, 11 | Native hedgerow with trees | 13.18 |
| r2b | Other rivers and streams | 8.4 |
| w, 34 | Ecologically valuable line of trees | 5.37 |
| r1g, 50 | Ditches | 3.4 |
| w, 33 | Line of trees | 2. |
| r2a | Rivers (HPI) | 1.7 |
| h2b | Non-native and ornamental hedgerow | 1.3 |
| h2b, 11 | Non-native and ornamental hedgerow with trees | 0.01 |

Notable and protected plants

- 3.2.7 The following notable plant species on the Vascular Plant England Red Data Lists were recorded during the UKHab surveys:
1. Field scabious *Knautia arvensis* in two road verges within modified grassland crossing the Order Limits in Section F and Section E; and five strips of other neutral grassland crossing Section E.
 2. Crosswort *Cruciata laevipes* in a hedgerow within the 50m buffer outside section J (H124), other neutral grassland in Section H and a bracken *Pteridium aquilinum* road verge crossing Section G.
 3. Wild strawberry *Fragaria vesca* within a hedgerow in Section G (H115).
 4. Common cow wheat *Melampyrum pratense* in lowland mixed deciduous woodland in Section K.

- 3.2.8 Spreading hedge parsley was the only S41 species recorded, in modified grassland within the 50m buffer east of Section K during the UKHab survey.

Cropland

- 3.2.9 Cropland habitats were a mixture of cereal and non-cereal crops and mostly in the eastern part of the Pipeline between the WRP site and Otterbourne WSW (sections E, F, and G). Cropland was more fragmented and comprised a lower proportion of the land coverage to the west, with the most westward parcel of cropland recorded in Section L. Large parcels of temporary grass and clover leys were infrequently encountered. These comprised a mixture of fields sown with either grasses or clovers or left to be colonised with pioneer vegetation such as hogweed *Heracleum sphondylium* and ragwort *Jacobaea* sp. There was also an orchard and a single parcel of horticulture.
- 3.2.10 Arable field margins were recorded which is an HPI, predominantly within Section E: Portsdown Hill to Boarhunt (Section E). They tended to occur around larger parcels of cereal cropland and were most commonly rough tussocky grasslands, with some sown with wildflower seed mixes.

Wetland

- 3.2.11 Wetland habitats included purple moor grass and rush pastures HPI within the 50m buffer at Wickham Meadows SINC. Reedbeds were recorded at Budds Farm WTW and within the 200m of the Order Limits associated with the River Itchen. Furthermore, discrete parcels of other wetland and aquatic marginal vegetation were recorded.

Grassland

- 3.2.12 A small parcel of other lowland acid grassland was recorded east of Waltham Chase within Section K marginally within and predominantly south of the Order Limits.
- 3.2.13 A long thin strip of bracken was outside and along the southern edge of temporary construction compound G-1, south of Wickham, and intersected the trenchless crossing west of this compound.
- 3.2.14 Lowland calcareous grassland HPI was recorded at Farlington WTW within the temporary construction compound D-1, at land to the east of the B2177 within the temporary construction compound E-4a, and within the Order Limits immediately west of Crooked Walk Lane within Section E.
- 3.2.15 Other neutral grassland was frequently recorded in the east of the field survey area, including at Budds Farm WTW, the WRP site and Bedhampton Springs. Within the Pipeline between the WRP site and Otterbourne WSW, small to medium-sized generally fragmented neutral grassland parcels were present that were most commonly false oat-grass *Arrhenatherum elatius* dominated.
- 3.2.16 In the far east of the field survey area, modified grassland tended to be fragmented, small, and less common than moderate quality neutral grasslands. Further westward, sections E and F contained multiple small parcels of modified grassland in the form of open pastures and small road verges. Some were of varying sward heights, but all were species poor with fewer than seven species per m². Sections

G, H, J, K, L and M contained a far greater proportion of modified grassland than the more eastern sections and were largely the dominant habitat type. The parcels were mainly used as grazing pasture, and some were more intensively managed lawns such as at Wickham Golf Course.

Dense scrub

- 3.2.17 Bramble *Rubus fruticosus* agg., hawthorn *Crataegus monogyna* and mixed scrub were quite sparse across the Order Limits. The largest dense scrub parcels were in the east of the field survey area within Budds Farm WTW and on the WRP site. These were mixed scrub with well-developed edges and a diverse mix of species. Smaller fragments of dense, butterfly bush *Buddleja davidii* dominated scrub were recorded at Bedhampton Springs. Within the Pipeline from the WRP site to Otterbourne WSW component there were very small, fragmented parcels of scrub along the full stretch of the route, but these made up a small proportion of the field survey area.

Rivers and lakes

- 3.2.18 Waterbodies included eutrophic standing water and one pond (both HPis) within the Order Limits. There was a total of 22 ditches within the field survey area, predominantly forming drainage features bordering and intersecting fields, as well as footpaths and public roads. Most were characterised as shallow or temporarily holding water, occasionally displaying signs of nutrient enrichment from agricultural runoff. Emergent and marginal flora typically comprised common species such as hemlock water-dropwort *Oenanthe crocata*, common nettle and rushes *Juncus* sp.
- 3.2.19 Four priority rivers were recorded within proposed trenchless crossings:
1. The River Meon was in moderate condition (watercourse crossing IDs WCX_G_010 and WCX_G_003)
 2. Bow Lake was in fairly poor condition (WCX_L_005) which also runs adjacent to the northern edge of the Order Limits
 3. A tributary to the River Itchen was in moderate condition (WCX_M_002), which also flows south-east within the southern edge of the Order Limits
 4. The River Itchen was in moderate condition (WCX_M_010 and WCX_M_011)
- 3.2.20 There were also 29 other rivers and streams, 20 of which cross the proposed pipeline:
1. Upstream tributary of the Hermitage Stream at Mill Lane was in fairly poor condition (trenchless watercourse crossing ID WCX_B2_001)
 2. Hermitage stream (trenchless WCX_C_003)
 3. Ditch along Chalk Lane (open cut WCX_F_001)
 4. Ditch southeast of Crockerhill (open cut WCX_F_002)
 5. River Wallington (trenchless WCX_F_004)
 6. Drain north of River Meon (trenchless WCX_G_004 and WCX_G_011)
 7. Upstream tributary of the River Hamble (Curbridge Creek) east of Pricketts Hill was in poor condition (open cut WCX_H_001)

8. Drain upstream of Shawfords Lake west of Little Bull Lane (open cut WCX_J_002)
 9. Drain upstream of Shawfords Lake south of Little Bull Lane was in fairly poor condition (open cut WCX_J_004)
 10. Drain upstream of Shawfords Lake (open cut WCX_J_005)
 11. Drain southeast of Winters Hill (open cut WCX_K_001)
 12. River Hamble: the northern section was in fairly poor condition and the southern section was in moderate condition (trenchless WCX_K_002)
 13. Drain upstream of the Horton Heath Stream east of Alma Lane (open cut WCX_K_005)
 14. Drain upstream of the Horton Heath Stream east of Scivier's Lane was in moderate condition (open cut WCX_K_006)
 15. Upstream tributary of the River Itchen north of Wardle Road (trenchless WCX_L_001)
 16. Drain upstream of Bow Lake north of Park Hills Wood (trenchless WCX_L_003)
 17. Ditch south of Nob's Crook (west) (open cut WCX_L_006)
 18. Ditch south of Nob's Crook (east) was in poor condition (open cut WCX_L_007)
 19. Drain upstream of the Itchen Navigation south of Kiln Lane (open cut WCX_M_004)
 20. Drain west of the railway and River Itchen (trenchless WCX_M_009)
- 3.2.21 Refer to ES Appendix 8.9 Freshwater ecology, Volume II (Document reference 6.2, DCO Volume 6) for full descriptions of each river by catchment.

Urban

- 3.2.22 In the east of the field survey area, built up areas and gardens comprised a higher proportion of the Order Limits, particularly through infrastructure at Budds Farm WTW and Havant Bypass, along with the Havant suburban area of buildings and gardens. A culverted watercourse was recorded south of Budds Farm WTW. There was an area of sparsely vegetated urban land at Bedhampton Springs adjacent to the neutral grassland area south of the railway line. To the west of the field survey area the Pipeline between the WRP site and Otterbourne WSW encroached upon far less built-up areas and gardens, with the occasional tarmacked road of suburban or residential garden within the field survey area.

Woodland

- 3.2.23 Most woodlands encountered were deciduous, including areas of lowland mixed deciduous, wet woodland and wood-pasture and parkland which are HPIs. These habitats were recorded within the Order Limits.
- 3.2.24 Areas of wet woodland were frequently willow *Salix* sp. dominated, often also with alder *Alnus glutinosa*. Those within the Pipeline between the WRP site and Otterbourne WSW component and 200m buffer are described below:
1. Two parcels around the River Meon trenchless watercourse crossing within Section G, one of which is within 15m of temporary construction compound G-4.

2. North of the Order Limits south of Wickham, Section G. Veteran trees were recorded within the woodland.
 3. There were four parcels within Wickham Golf Course within Section G. One of these is within the Limits of Deviation for the proposed open cut pipeline across the golf course.
 4. East of temporary construction compound K-2 and marginally within the Order Limits.
 5. Two parcels west and south of Lower Upham, beyond 50m from the Order Limits, Section K.
 6. East of Highbridge adjacent to and north, south and west of temporary construction compound L-9. There are two veteran trees within the woodland north and west of the compound.
 7. Within the trenchless section of the River Itchen within Section M on fen peat soils, which is within the River Itchen Site of Special Scientific Interest (SSSI).
 8. Parcels west of temporary construction compound M-1 within Otterbourne Park Wood.
 9. Two narrow strips south-east of Otterbourne WSW, one of which is less than 10m from the Order Limits.
- 3.2.25 Parcels of lowland mixed deciduous woodland were recorded across all components and sections, except for the WRP site and Pipelines between Budds Farm WTW and the WRP site. These tended to be smaller isolated fragments dominated by oak species or common ash *Fraxinus excelsior*. More notably, larger lowland mixed deciduous woodland parcels mostly dominated by oak species and common ash were present at Shirrell Heath, Marriot Meon Valley Hotel and Country Club, the River Hamble, Kimbers Copse, Winters Hill, north of Lowhill Farm, Chestnut Gully Wood, Hill Copse, Otterbourne Park Wood and immediately north and east of Otterbourne WSW. These woodlands were mature and tended to contain well-defined canopy, shrub and ground flora layers and other features typical of the HPI habitat type, such as deadwood and veteran trees.
- 3.2.26 The Proposed Development intersects areas of lowland mixed deciduous woodland as described below:
1. A strip crosses the Order Limits and proposed open cut pipeline east of Crockerhill within Section F, which was linked to Carpenters Copse ASNW to the north.
 2. Narrow strip north of the proposed temporary construction compound G-4 and within compound G-7.
 3. Marginally within the proposed temporary construction compound H-5.
 4. Five belts crossed by the proposed open cut pipeline south and south-west of Waltham Chase within Section J. Four of these were connected to a larger parcel of woodland west of the Order Limits, including Sandles Copse PAWS approximately 295m from the Order Limits. Three NVC sites are associated with these woodlands (NVC sites 21a, 22 and 23).
 5. Along the River Hamble in Section K, including a parcel east of the proposed temporary construction compound K-2 (NVC site 29).
 6. Within temporary construction compound K-5.

7. A shelterbelt of oak with AWIs marginally within the proposed temporary construction compound K-6 and east and south of the AGP site BPT K; including within the footprint of the proposed permanent access road from Winters Hill from the east and crossing the proposed pipeline north of the wood pasture and parkland (refer to paragraph 3.2.32).
 8. North of and linking with Park Hill's Wood ASNW ID 2968 ancient woodland (refer to ES Figure 8.5 Ancient Woodland and ancient, veteran and notable trees within the desk study area, Volume III (Document reference 6.3, DCO Volume 6) within Section L and crossed by the open cut pipeline in two locations.
 9. Marginally within the northern edge of the Order Limits within Section L between Chestnut Gully Wood and Park Hill's Wood.
 10. Chestnut Gully Wood was marginally inside the southern boundary of the Order Limits within Section L and extended south connecting with Park Hill's Wood ASNW (NVC site 36).
 11. Within, north and east of the Order Limits within Section L associated with ASNW ID 0319 (refer to ES Figure 8.5 Ancient Woodland and ancient, veteran and notable trees within the desk study area, Volume III (Document reference 6.3, DCO Volume 6) (NVC site 38).
 12. Within Otterbourne WSW, linking with Sparrowgrove Copse ASNW further north (ID 3410) (refer to ES Figure 8.5 Ancient Woodland and ancient, veteran and notable trees within the desk study area, Volume III (Document Reference 6.3, DCO Volume 6).
- 3.2.27 There are additional proposed crossings associated with lines of deciduous trees linked with parcels of woodland. Species most often comprised pedunculate oak, common ash, birch *Betula*, willow, field maple, hawthorn and sycamore and included ecologically valuable (mature) lines of trees.
- 3.2.28 Other broadleaved woodland parcels were frequently recorded across all components and sections. In the east of the field survey area, this included south of the WRP site, along the north-east edge of the WRP site, at Budds Farm WTW, as well as to the north-east of the WRP site around Havant Bypass. These woodlands tended to be replanted other broadleaved and other mixed woodlands comprising a mixture of native and non-native species and dominated by species such as white poplar, sycamore *Acer pseudoplatanus* and common ash, amongst other species. Within the pipeline from the WRP site to Otterbourne WSW component, they were mostly scattered small parcels of young or replanted woodland comprising a large variety of both native and non-native species. The largest of the non HPI parcels were found at Wickham Golf Club, immediately east of the River Itchen and at Otterbourne WSW.
- 3.2.29 There were also fragmented parcels of other mixed and coniferous woodland. Seven parcels of other mixed woodland were noted mainly within the 50m buffer of the pipeline from the WRP site to Otterbourne WSW component. This comprised a mix of broadleaved and coniferous species, including planted conifers, Scots pine *Pinus sylvestris*, pedunculate oak, willow and hawthorn.
- 3.2.30 There were five small, fragmented parcels of coniferous woodland recorded within the field survey area. The largest of which was a commercial coniferous plantation woodland south of Shirrell Heath in the 50m buffer next to Section H. Coniferous

woodland was dominated by species such as Scots pine, with occasional broadleaved species, and no understorey.

Coastal and floodplain grazing marsh

- 3.2.31 There were areas of coastal and floodplain grazing marsh HPI associated with the River Wallington, Meon, Hamble, Itchen (and tributary) and Bow Lake. Within the Order Limits and partly within temporary construction compound L-5 there was a parcel of coastal floodplain and grazing marsh HPI that is designated as Fielders Farm Meadows (Eastleigh) SINC.

Wood-pasture and parkland

- 3.2.32 Wood-pasture and parkland was recorded within Section K. The woodland contained standing deadwood offering microhabitats for invertebrates and veteran and over-mature trees. Species included willow, pedunculate oak and hawthorn. The proposed temporary construction compound K-5 falls within neutral grassland within the wood-pasture and parkland HPI. The grassland species list included abundant meadow foxtail *Alopecurus pratensis* and false oat-grass and occasional meadow buttercup *Ranunculus acris* and broadleaved dock *Rumex obtusifolius*.

Open mosaic habitat on previously developed land

- 3.2.33 Other neutral grassland and other calcareous grassland at the WRP site was classified, in conjunction with areas of bare ground, scrub and pools, as open mosaic habitat on previously developed land (OMH), which is an HPI.

Hedgerows

- 3.2.34 A schedule of hedgerows, including the results of the Hedgerows Regulations surveys is found in Table B-1 within Annex B and detailed results for these surveys can be found in Table B-3 to Table B-12. There were 274 hedgerows within the field survey area and 178 hedgerows crossed by the proposed pipeline.
- 3.2.35 Hedgerows were frequently recorded bordering agricultural fields; they were predominantly native (an HPI) and species-rich, several containing features such as trees and AWI plants. A total of 57 hedgerows were surveyed and classified as 'important' under the Wildlife and Landscape Criteria of the Hedgerows Regulations 1997, of which 44 were within the Order Limits. A total of 126 hedgerows were not subject to a Hedgerow Regulations survey and were classified as assumed 'important', 56 of which were within the Order Limits.
- 3.2.36 The native hedgerows were mostly characterised by hawthorn, blackthorn *Prunus spinosa*, field maple *Acer campestre*, hazel *Corylus avellana* and pedunculate oak *Quercus robur*. Two hedgerows contained notable species (large-leaved lime and small-leaved lime) under the Hedgerows Regulations. Native hedgerows are an HPI. Non-native and ornamental hedgerows were most often dominated by Leyland cypress *Cupressus x leylandii* or cherry laurel *Prunus laurocerasus*. The hedgerows of highest distinctiveness contained an average of seven to nine species per 30m section.
- 3.2.37 The locations of all hedgerows including those that met the criteria for important are shown in ES Figure 8.9 UK Habitat Classification for linear features and

Important hedgerows within the field survey area, Volume III (Document reference 6.3, DCO Volume 6).

National Vegetation Classification

- 3.2.38 A total of 44 NVC sites were surveyed, representing grassland and woodland. There were 30 woodland sites, distributed evenly throughout the route, consisting of 23 lowland mixed deciduous woodland HPI sites (mostly W8d *Hedera helix* sub-community), five wet woodland HPI and one other broadleaved woodland site. There was also one NVC site classified as wood-pasture and parkland HPI.
- 3.2.39 There was a total of 14 grassland NVC sites distributed evenly throughout the field survey area, comprising:
1. Four coastal floodplain and grazing marsh HPI
 2. One purple moor grass and rush pasture HPI
 3. One other lowland acid grassland
 4. Four lowland calcareous grassland HPI sites
 5. One area of OMH HPI
 6. One modified grassland
 7. One other neutral grassland
 8. One area of swamp and other neutral grassland
- 3.2.40 The following notable plant species on the Vascular Plant England Red Data Lists were recorded during the NVC surveys:
1. Field scabious (NVC site 3 lowland calcareous grassland) and in six field boundaries and road verges within modified grassland crossing the Order Limits in Section F and adjacent to the southern edge of Section E; and four strips of other neutral grassland crossing Section E.
 2. Crosswort (NVC site 9 lowland calcareous grassland) and in a hedgerow within the 50m buffer outside Section J (H124), other neutral grassland in Section H and a bracken road verge crossing Section G.
 3. Wild strawberry (NVC sites 4 and 9 lowland calcareous grassland and site 17 lowland mixed deciduous woodland) and within a hedgerow in Section G (H115).
 4. Tormentil *Potentilla erecta* (NVC site 13 purple moor grass and rush pasture).
 5. Marsh stitchwort *Stellaria palustris* and lesser spearwort *Ranunculus flammula* (NVC site 7 swamp and other neutral grassland).
 6. Common cow wheat ('near threatened', NVC site 27 lowland mixed deciduous woodland) and in lowland mixed deciduous woodland in Section K.
 7. Bitter vetch *Lathyrus linifolius* ('near threatened', NVC site 34b lowland mixed deciduous woodland).
- 3.2.41 An overview of the NVC survey results is found in Table 3-4, which are shown in ES Figure 8.10 National Vegetation Classification within the field survey area, Volume III (Document reference 6.3, DCO Volume 6). The figure includes the site numbers referenced in Table 3-4 and subsequent sections of this report. The figure also includes sites that fulfil the criteria set out in paragraph 2.5.8 that could not be

surveyed. Refer to Annex B for detailed NVC survey results. Table 3-4 includes existing designations and an assessment of whether the sites meet the criteria for being HPI.

Table 3-4 National Vegetation Classification survey results

| Site | Component | OS grid reference | Distance from Order Limits | Designation status | NVC community/sub-community | HPI |
|----------|-----------|----------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1 | WRP site | SU 70119 05678 | Within | N/A | MG1b <i>Holcus lanatus</i> – <i>Juncus effusus</i> rush pasture grassland, <i>Juncus inflexus</i> sub-community | OMH |
| 2 | D | SU 68110 06250 | Within | Field to West of Gillman Road SINC Land to the north of Portsdown Hill Road SINC | CG3b <i>Bromus erectus</i> , <i>Centaurea nigra</i> MG1a <i>Arrhenatherum elatius Festuca rubra</i> MG1b <i>Arrhenatherum elatius Urtica dioica</i> MG1e <i>Arrhenatherum elatius Centaurea nigra</i> sub-communities. | Lowland calcareous grassland |
| 3 | D | SU 68034 06345 SU 68127 06347 SU 68255 06326 | 20m | Land to the north of Portsdown Hill Road SINC | CG3b <i>Bromus erectus grassland</i> , <i>Centaurea nigra</i> sub-community | Lowland calcareous grassland |
| 4 | E | SU 65472 06900 | Within 45m | N/A | MG1e <i>Arrhenatherum elatius grassland</i> , <i>Centaurea nigra</i> sub-community | Lowland calcareous grassland |
| 5a 5b | E | 5a - SU 64405 07225 5b - SU 64398 07225 | 5a – 37m 5b – 17m | N/A | 5a - W8 <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland community. 5b- W8f <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> , <i>Allium ursinum</i> | Lowland mixed deciduous woodland |
| 6a 6b | E | 6a - SU 63952 07323 6b - SU 63982 07334 | 6a- 27m 6b- 21m | Motte and Bailey and Chalk Pit SINC | 6a - W8e <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland, <i>Geranium robertianum</i> sub-community. 6b - W8d <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> , <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |

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| Site | Component | OS grid reference | Distance from Order Limits | Designation status | NVC community/sub-community | HPI |
|------|-----------|----------------------------------------------------------------------|----------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 7 | E | SU 62552 07637 | Within | N/A | MG1a <i>Arrhenatherum elatius</i> grassland, <i>Festuca rubra</i> | Lowland calcareous grassland |
| 8 | E | SU 63952 07323 | 20m | Motte and Bailey and Chalk Pit SINC | W10c <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> , <i>Hedera helix</i> sub-community woodland | Lowland mixed deciduous woodland |
| 9 | E | SU 62552 07637 | Within | N/A | MG1d <i>Arrhenatherum elatius</i> grassland, <i>Pastinaca sativa</i> sub-community | Lowland calcareous grassland |
| 10 | F | SU 58634 08310 | Within | N/A | MG7d <i>Lolium perenne</i> leys and related grasslands, <i>Lolium perenne</i> – <i>Alopecurus pratensis</i> grassland | Coastal floodplain and grazing marsh |
| 11 | G | SU 57947 10351 | 21m | N/A | W10c <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> , <i>Hedera helix</i> sub-community woodland | Lowland mixed deciduous woodland |
| 12 | G | SU 58126 10713 | 15m | N/A | W6a <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, sub-community. | Wet woodland |
| 13 | G | SU 57682 10860 | Within | Wickham Meadow SINC | M23a <i>Juncus effusus/acutiflorus</i> – <i>Galium palustre</i> rush pasture | Purple moor grass and rush pasture |
| 14 | G | SU 56781 10693 | Within | N/A | MG10a <i>Holcus lanatus</i> – <i>Juncus effusus</i> rush pasture S7 <i>Carex acutiformis</i> swamp NVC community. | No - swamp and other neutral grassland |
| 15 | G | SU 56712 10722 | Within | N/A | W6a <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland | Wet woodland |
| 16 | G | SU 56672 11116 SU 56349 10896 SU 56349 11108 SU 56636 10822 | Within | N/A | W6a <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland W6c <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, <i>Salix viminalis/Salix triandra</i> sub-community. | Wet woodland |

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| Site | Component | OS grid reference | Distance from Order Limits | Designation status | NVC community/sub-community | HPI |
|------------|-----------|----------------------------------------------------|----------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 17 | G | SU 56448 10898 | Within | N/A | W10c <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> , <i>Hedera helix</i> sub-community woodland | Lowland mixed deciduous woodland |
| 18 | G | SU 56847 11005 | Within | N/A | W10c <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> , <i>Hedera helix</i> woodland sub-community | No - other broadleaved woodland |
| 19 | G | SU 56764 12101. | Within | N/A | W8d <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 20 | H | SU 57122 13121 | 7m | Ancient woodland | W8d <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 21a 21b | J | 21a – SU 56056 14368 21b – SU 56086 14489 | 21a –5m 21b – within | N/A | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 22 | J | SU 55902 14460 | Within | N/A | W10d <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, <i>Holcus lanatus</i> sub-community. | Lowland mixed deciduous woodland |
| 23 | J | SU 55798 14602 | Within | N/A | W10c <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |
| 24 | J | SU 55647 14892 | 29m | N/A | W10c <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 25 | J | SU 55647 14892 | Within | N/A | W10 <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, <i>Hedera helix</i> sub-community W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |

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| Site | Component | OS grid reference | Distance from Order Limits | Designation status | NVC community/sub-community | HPI |
|------------|-----------|-----------------------------------------------|------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 26a 26b | J | 26a - SU 55622 114861 26b - SU 54181 15311 | 26a – Within 26b - Within | N/A | 26a – <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community 26b - W8b <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Anemone nemorosa</i> sub-community | 26a- Hedgerow with trees 26b -Lowland mixed deciduous woodland |
| 27 | J | SU 53941 15672 | 30m | N/A | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |
| 28 | J | SU 53952 15723 | Within | N/A | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |
| 29 | K | SU 54196 16548 | Within | N/A | W8e <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Geranium robertianum</i> sub-community. W6a <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, Typical sub-community | Lowland mixed deciduous woodland Wet Woodland |
| 30 | K | SU 54181 15311 | Within | N/A | U1f <i>Festuca ovina</i> - <i>Agrostis capillaris</i> - <i>Rumex acetosella</i> , <i>Hypochoeris radicata</i> sub-community acid grassland | Other lowland acid grassland |
| 31 | K | SU 52878 17968 | Within | N/A | W10 <i>Quercus robur</i> - <i>Pteridium aquilinum</i> - <i>Rubus fruticosus</i> woodland | Wood-pasture and parkland |
| 32 | K | SU 52999 17999 | Within | N/A | W10 <i>Quercus robur</i> - <i>Pteridium aquilinum</i> - <i>Rubus fruticosus</i> woodland | Lowland mixed deciduous woodland |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Site | Component | OS grid reference | Distance from Order Limits | Designation status | NVC community/sub-community | HPI |
|------------|-----------|----------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 33 | K | SU 53010 18393 | Within | Part of the same woodland outside the Order Limits is designated as Kimbers Copse SINC | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |
| 34a 34b | L | 34a – SU 50806 20102 34b – SU 51128 19946 | Within | N/A | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |
| 35 | L | SU 50038 20443 | Within | N/A | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |
| 36 | L | SU 49445 20378 | Within | N/A | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |
| 37a 37b | L | 37a – SU49576 20622 37b – SU49579 20555 | 37a – 17m 37b - Within | N/A | MG7a <i>Lolium perenne</i> leys and related grasslands, <i>Lolium perenne</i> - <i>Trifolium repens</i> leys | No – modified grassland |
| 38 | L | SU 49123 20391 | 15m | The Mount, Fair Oak and Horton Heath SINC | W8d <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Hedera helix</i> sub-community | Lowland mixed deciduous woodland |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Site | Component | OS grid reference | Distance from Order Limits | Designation status | NVC community/sub-community | HPI |
|---------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 39a 39b 39c 39d 39e | L | 39a -SU 48889 20690 39b – SU 48942 20657 39c – SU48955 20558 39d – SU 48960 20690 39e – SU 49024 20535 | Within | Fielders Farm Meadows (Eastleigh) SINC | 39a - S22a <i>Glyceria fluitans</i> 39b – S28b <i>Phalaris arundinacea</i> , <i>Epilobium hirsutum-Urtica dioica</i> sub- community tall-herb fen 39c – S6 <i>Carex riparia</i> 39d - S6 <i>Carex riparia</i> 39e – MG6a <i>Lolium perenne</i> – <i>Cynosurus cristatus</i> | Coastal floodplain and grazing marsh |
| 40 | L | SU 47131 21476 | Within | N/A | W6b <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, <i>Salix fragilis</i> sub-community. | Wet woodland |
| 41 | M | SU 46471 21877 | Within | River Itchen SSSI | W6 <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland | Wet woodland |
| 42 | M | SU 46238 22172 | Within | N/A | S7 <i>Carex acutiformis</i> community | Coastal floodplain and grazing marsh |
| 43 | M | SU 46125 22118 | 19m | Otterbourne Wood SINC Ancient woodland | W8b <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, <i>Anemone nemorosa</i> sub-community. | Lowland mixed deciduous woodland |
| 44a 44b | M | 44a - SU 46493 22954 44b - SU 46425 22723 | 44a – 90m 44b – 56m | N/A | 44a- MG1c <i>Arrhenatherum elatius</i> grassland, <i>Filipendula ulmaria</i> woodland sub-community. 44b - S6 <i>Carex riparia</i> swamp | Coastal floodplain and grazing marsh |

3.2.42 Detailed results for habitat surveys within the individual components and sections are described in the following sections (3.2.43 to 3.2.213). The hedgerow and NVC survey data has been filtered to only include data within the field survey area.

Water Recycling Plant site

UKHab classification

Grassland

3.2.43 The WRP site contains two distinct parcels of grassland, together within a mosaic of bare ground forming OMH HPI. The western parcel was *Holcus – Juncus* neutral grassland (g3c8) in good condition with patches of bare ground. Species recorded within the neutral grassland included wild *Reseda luteola*, common ragwort *Jacobaea vulgaris*, field mustard *Brassica rapa*, garlic mustard *Alliaria petiolata*, common mallow *Malva sylvestris*, carnation spurge *Euphorbia terracina*, sticky mouse-ear *Cerastium glomeratum* and early forget-me-not *Myosotis ramosissima*. The eastern portion qualified as other calcareous grassland (g2c) due to the presence of calcareous grassland indicators such as chalk knapweed *Centaurea debeauxii* and downy oat grass *Avenula pubescens*. However, it did not meet the criteria to be classed as lowland calcareous grassland (g2a).

3.2.44 Although not returned by the desk study or recorded during the field survey, Hampshire County Council has advised that the WRP site is known to support a large population of the County Notable Hairy buttercup *Ranunculus sardous* and species such as pyramidal orchid *Anacamptis pyramidalis* and corky-fruited water dropwort *Oenanthe pimpinelloides*.

Heathland and shrub

3.2.45 The WRP site was bordered to the west and south by a belt of mixed scrub containing a variety of species such as dogwood *Cornus sanguinea*, elder, white poplar *Populus alba* and bramble amongst others.

Rivers and lakes

3.2.46 Immediately east of the WRP site, Hermitage Stream flows into Langstone Harbour (WCX_C_006).

Hedgerows

3.2.47 There were no hedgerows within this component.

National Vegetation Classification

3.2.48 There was one NVC site within the WRP site. The results for this NVC site can be found in Table 3-5.

Table 3-5 National Vegetation Classification results for the Water Recycling Plant site

| Site | Soil type | NVC community and sub-community | HPI |
|------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1 | Loamy soils with naturally | The majority of vegetation comprised an open flower-rich damp grassland with a NVC community most closely matching MG10 <i>Holcus</i> | OMH |

| Site | Soil type | NVC community and sub-community | HPI |
|------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| | high groundwater | <i>lanatus</i> – <i>Juncus effusus</i> rush pasture grassland, with the constant presence of hard rush <i>Juncus inflexus</i> meaning it also closely matches the MG10b <i>Juncus inflexus</i> sub-community. This habitat consisted of a spatial mosaic of various soil moistures and soil types with more than 0.25ha of early successional communities, including inundation communities, open grassland, ruderals and flower rich grassland. There were also pools, mounds of loose substrate and bare ground. | |

3.2.49 The NVC data table for vegetation communities identified at NVC site 1 can be found in Table B-13 of Annex B.

Pipeline between the Water Recycling Plant site and Bedhampton Springs

UKHab classification

Grassland

3.2.50 There were parcels of neutral grassland immediately south of the railway line at Bedhampton Springs. These grasslands were relatively species poor with six to seven species per m² and were dominated by false oat-grass, with frequent cocksfoot *Dactylis glomerata* and rare scentless mayweed *Tripleurospermum inodorum* and hedge mustard *Sisymbrium officinale*. Small, fragmented areas that were not surveyed were precautionarily classified as neutral grassland.

3.2.51 At the southern end of the component, immediately north of Havant Bypass and immediately west of Mill Lane, there was a parcel of ruderal dominated modified grassland with hemp agrimony *Eupatorium cannabinum* and thistle *Cirsium spp.* In addition, additional areas within the 50m buffer have been classified as modified grassland.

Heathland and shrub

3.2.52 A parcel of dense butterfly bush *Buddleia davidii* dominated scrub was present within Bedhampton Springs immediately adjacent to the area of sparsely vegetated land described below.

Rivers and lakes

3.2.53 Hermitage Stream and Old Mill Dam within Bedhampton Springs flowed southwards into Langstone Harbour. There was a shaded stretch of an upstream tributary of the Hermitage Stream at Mill Lane (WCX_B2_001) and a drainage ditch running adjacent to Meyrick Road to the north.

Urban

3.2.54 There was an area of sparsely vegetated urban land within Bedhampton Springs immediately adjacent to the neutral grassland area south of the railway line. It comprised mounds of earth with sparse ephemeral species such as annual

mercury, common ragwort, perforate St John's wort *Hypericum perforatum* and scattered butterfly bush scrub.

Woodland

- 3.2.55 There was a linear stretch of common beech dominated other broadleaved woodland between Old Mill Dam and Hermitage Stream at Bedhampton Springs, with frequent non-native self-set species including sycamore and laurel *Prunus* sp.
- 3.2.56 There was an ecologically valuable line of trees to the north of Havant Bypass, which connected to the parcel of woodland adjacent and which comprised mature oak trees. There was another line of trees bordering Meyrick Road, which comprised semi-mature sycamore trees.

Hedgerows

- 3.2.57 There were two hedgerows within the component: a stretch of native hedgerow (ID H4) at the northern edge of the component, dominated by bramble and bordering the railway line to the south; and a native hedgerow bordering a private garden (ID H6) with species such as hawthorn, elder and goat willow *Salix caprea*. However, these hedgerows were not subject to Hedgerows Regulations surveys.

National Vegetation Classification

- 3.2.58 No NVC surveys were undertaken within this component as the habitats did not meet the criteria set out in paragraph 2.5.8.

Pipelines between Budds Farm Wastewater Treatment Works and the Water Recycling Plant site

UKHab classification

Grassland

- 3.2.59 This component contained extensive grasslands. The highest quality areas were *Arrhenatherum* neutral grasslands located in the west and south, where management was less intense.
- 3.2.60 The largest parcel of neutral grassland was immediately south of the WRP site. Additional grasslands were on the other side of Langstone Harbour, to the west of Budds Farm WTW. Where access was permitted for survey, these were identified as *Arrhenatherum* neutral grasslands dominated by false oat grass, and were subject to sparse management, being tussocky and overgrown. Other scattered parcels of grassland were not surveyed due to the lack of access.
- 3.2.61 Areas of modified grassland were scattered throughout Budds Farm WTW around the existing infrastructure, and within the urban areas of Havant fringing the component buffer.

Wetland

- 3.2.62 An area of reedbeds was present between two parcels of woodland to the west of Budds Farm WTW. It was a poor representation of its habitat type, containing

ruderals such as common nettle *Urtica dioica* and scrub, with poor water quality and dry areas, with bare ground from mammal digging.

Heathland and shrub

- 3.2.63 Two pockets of mixed scrub were recorded in the east of the component. One bordered the lagoon located south of Budds Farm WTW, and another was located on the eastern boundary of the WTW. They both contained elder, bramble, cherry *Prunus* spp., hawthorn, and butterfly bush with occasional scattered trees and a well-developed transition zone alongside the adjacent grassland, reedbed and woodland habitats.

Rivers and lakes

- 3.2.64 A large lagoon was in the southern part of Budds Farm WTW, surrounded by scrub, grassland, and reedbeds; it forms part of the Southmoor Nature Reserve site.
- 3.2.65 A tributary running into Langstone Harbour was located directly north of the WTW site in the buffer area. The mouth of Hermitage stream (WCX_C_003) which feeds into Langstone Harbour was also within this component.

Urban

- 3.2.66 A culverted watercourse was recorded within Budds Farm WTW (WCX_C_001).

Woodland

- 3.2.67 A thin belt of wet woodland was recorded along the western edge of Budds Farm WTW, primarily in the 50m buffer. This woodland was characterised by ash as well as non-natives including Lawson's cypress *Chamaecyparis lawsoniana* and sycamore.
- 3.2.68 There was large ring of other broadleaved woodland surrounding the grassland south of the WRP site, comprising willow, oak, hawthorn and blackthorn in a mosaic of scrub and trees, including some newly planted and established trees.

Hedgerows

- 3.2.69 A single species-rich native hedgerow (H3) was bordering a Public Right of Way (PRoW) to the south of Budds Farm WTW. The species recorded included cherry plum *Prunus cerasifera*, hawthorn, elder and ash (young trees).
- 3.2.70 An overview of the Hedgerows Regulations survey results for the single hedgerow within this component can be found in Table B-3 of Annex B, including an assessment against the criteria for important hedgerows. The hedgerow met the criteria for 'important'.

National Vegetation Classification

- 3.2.71 No NVC surveys were undertaken within this component as the habitats did not meet the criteria set out in paragraph 2.5.8.

Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works

Section D: The Water Recycling Plant site to Portsdown Hill

3.2.72 The field survey area only comprises part of this section as the majority is in tunnel.

UKHab classification

Cropland

3.2.73 In the far west of the component at the intersection with Section E, there was a parcel of cropland immediately west of the Widley urban area.

Grassland

3.2.74 False oat-grass dominated neutral grasslands were present north-west of Dellcrest Path and Boundary Way, next to Widley.

3.2.75 Calcareous and neutral grassland were recorded at Farlington WTW, including lowland calcareous grassland HPI within the Order Limits and the footprint of the proposed temporary construction compound D-1. Of the calcareous grasslands, one parcel was species-rich and mildly calcareous, another other herb-rich and calcareous, and a final parcel rough, herb-poor to locally herb rich and neutral to calcareous with all parcels meeting the HPI criteria. The grassland within the footprint of the proposed temporary construction compound was herb rich calcareous grassland; very high herb cover (90%) in 2021, approximately 40% in 2024 with coarser grasses increasing, particularly tall fescue *Schedonorus arundinaceus*, though still open and visually very species rich [37]. The *Arrhenatherum* other neutral grassland here tended to be rough herb-rich grasslands dominated by false oat grass, perennial rye-grass *Lolium perenne* and crested dog's tail *Cynosurus cristatus*.

Heathland and shrub

3.2.76 There was a linear parcel of scrub in the far east of the component on a Havant Bypass verge, north-west of the WRP site, which could not be accessed for survey.

Woodland

3.2.77 There were woodland parcels surrounding Havant Bypass in the far east. Immediately north of Havant Bypass, there was other mixed woodland dominated by non-native species including white poplar and Leyland cypress, with some natives such as *Tilia x europaea* and an elder shrub layer. This area was largely overgrown with common nettle, with patches of bare ground. Another woodland parcel surrounding the bypass was inaccessible for survey.

Hedgerows

3.2.78 There were seven hedgerows within Section D. A single native hedgerow (H10) had been recently flailed and formed the boundary between arable fields and adjacent private properties. Additionally, there were six species-rich native hedgerows, bordering roads at the eastern end of the section and bordering arable

fields in the west. Species present included pedunculate oak, blackthorn, hawthorn, dog rose *Rosa canina*, rose *Rosa sp.* and sycamore, with species diversity averaging six species per 30m (H11). One hedgerow bordering an arable field had an average of five woody species per 30m, including elder, dog rose, blackthorn, hawthorn, dogwood and ash.

3.2.79 An overview of the Hedgerows Regulations survey results for Section D: The WRP site to Portsdown Hill (Section D) can be found in Table B-3 of Annex B, including an assessment against the criteria for important hedgerows. Three hedgerows were surveyed and none met the criteria for ‘important’.

National Vegetation Classification

3.2.80 There was two NVC sites within Section D. The results for each NVC site can be found in Table 3-6.

Table 3-6 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section D

| Site | Soil type | NVC community and sub-community | HPI |
|------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 2 | Freely draining lime-rich loamy soils | The central area within the proposed temporary construction compound D-1 and areas south and west had an NVC community that most closely matches CG3 <i>Bromus erectus</i> with common knapweed <i>Centaurea nigra</i> , meaning it also closely matches the CG3b <i>Centaurea nigra</i> sub-community. Parcels to the south, east and west comprised herb-poor and herb-rich neutral grassland NVC communities of MG1a <i>Arrhenatherum elatius Festuca rubra</i> , MG1b <i>Arrhenatherum elatius Urtica dioica</i> , and MG1e <i>Arrhenatherum elatius Centaurea nigra</i> grasslands. | Lowland calcareous grassland |
| 3 | Freely draining lime-rich loamy soils | The NVC community most closely matches CG3 <i>Bromus erectus</i> grassland, with the proportion of common knapweed <i>Centaurea nigra</i> , yarrow <i>Achillea millefolium</i> and hedge bedstraw <i>Gallium album</i> meaning it also closely matches the CG3b <i>Centaurea nigra</i> sub-community. | Lowland calcareous grassland |

3.2.81 The NVC data table for vegetation communities identified at NVC sites 2 and 3 can be found in Table B-14 of Annex B.

Section E: Portsdown Hill to Boarhunt

UKHab classification

Cropland

3.2.82 This section consisted of large parcels of arable land used to grow cereal crops between east of Boarhunt Road and Portsdown Hill Road. There were also three arable field margins (an HPI), two of which were tussocky/ruderal rich grasslands and the third was sown with a wildflower seed mix. Two large parcels of ley were present, one sown with grass south of Southwick and another left to be colonised with pioneering vegetation north of Southwick Road.

- 3.2.83 The AGP Break Pressure Tanks and Intermediate Pumping Station E (BPT/IPS E) is proposed within a parcel of cropland at the west end of the component section, north of Portsdown Hill Road.

Grassland

- 3.2.84 Three parcels of lowland calcareous grassland HPI were recorded; two parcels are within the Order Limits and the other within 50m. Lowland calcareous grassland to the east of Mill Lane consisted of a tall sward with more than 10 species per m² including false oat-grass, cocksfoot, meadow buttercup, bulbous buttercup *Ranunculus bulbosus*, devils' bit scabious *Succisa pratensis*, greater knapweed *Centaurea scabiosa*, wild parsnip *Pastinaca sativa*, yellow rattle *Rhinanthus minor*, wild marjoram *Origanum vulgare*, red fescue *Festuca rubra*, fairy flax *Linum catharticum*, yellow wort *Blackstonia perfoliata*, crosswort, yarrow, common bird's foot trefoil *Lotus corniculatus* and ribwort plantain *Plantago lanceolata*. There was an additional parcel within the Order Limits immediately west of Crooked Walk Lane. Species recorded included false-oat grass, red fescue, pyramidal orchid, hedge bedstraw and fairy flax.
- 3.2.85 Two parcels of other calcareous grassland were recorded, the first south of Portsdown Hill Road. Species included cocksfoot, smooth meadow grass *Poa pratensis*, frequent yellow rattle, wild marjoram, greater knapweed and agrimony *Agrimonia eupatoria*. A second parcel was recorded east of the B2177, species included red fescue, false oat grass, rough hawkbit *Leontodon hispidus*, wild parsnip, wild carrot *Daucus carota* and red clover *Trifolium pratense*.
- 3.2.86 There were multiple parcels of neutral grasslands consisting of small road verges adjacent to Boarhunt Road and one large arable field margin. These grasslands were located within and adjacent to the Order Limits, with more than nine species per m² consisting of false oat grass, Yorkshire fog *Holcus lanatus*, red fescue, agrimony and common knapweed.
- 3.2.87 There were multiple parcels of modified grassland east of Pigeon House Lane and Portsdown Hill Road within the Order Limits. These modified grasslands had varied sward heights consisting of open pasture and small road verges. They were species poor with fewer than seven species per m² and dominated by cocksfoot, white clover *Trifolium repens*, annual meadow grass *Poa annua*, dock *Rumex sp.* and perennial rye-grass.

Heathland and shrub

- 3.2.88 There were multiple parcels of mixed, bramble and hawthorn scrub to the north of Portsdown Hill Road and small patches of scrub between Boarhunt Road and Widley walk within and adjacent to the Order Limits. These parcels of scrub consisted of hawthorn, hazel, bramble and elder with scattered sycamore trees, rides and glades and a well-developed edge.

Woodland

- 3.2.89 There was one parcel of lowland mixed deciduous woodland to the north-west of Boarhunt Road and adjacent to the Order Limits. The woodland connects to a parcel of ancient woodland and consists of pedunculate oak, ash with understorey layer of hazel, field maple and bramble and dog's mercury *Mercurialis perennis*.

- 3.2.90 There were two parcels of lowland mixed deciduous woodland to the east of B2177 and adjacent to the Order Limits. These woodlands consisted of a mixture of pedunculate oak and ash dominated canopies with an understorey of hazel and elder. There were AWIs of dog's mercury, English bluebell *Hyacinthoides non-scripta*, wood sedge *Carex sylvatica*, butcher's broom *Ruscus aculeatus* and scaly male fern *Dryopteris affinis*.
- 3.2.91 There were small parcels of other broadleaved wood either side of Boarhunt Road and within the Order Limits and four parcels of other broadleaved woodland east of Monument Lane, Crooked Walk Lane and east and west of Widley Walk located adjacent to the Order Limits. These woodland parcels consisted of a canopy of ash, sycamore, Italian alder *Alnus cordata*, large-leaved lime, Leyland cypress with a bramble and elder understorey layer.

Hedgerows

- 3.2.92 There were 33 native hedgerows within this section. These were varied, including both intact and gappy hedgerows, some that were newly planted and others that were heavily flailed at the time of survey. All hedgerows formed boundaries between arable fields and most comprised blackthorn, hawthorn and bramble, with elder and dogwood.
- 3.2.93 Ten species-rich, native hedgerows were present with species including blackthorn, hawthorn, wild privet, field maple, holly *Ilex aquifolium*, dogwood, ash, pedunculate oak, dog rose and elder. Four hedgerows contained trees, including ash and sycamore. The most notable hedgerows were: H37, which bordered an agricultural field adjacent to the B1277 and had an average of six species per 30m; and H16, which bordered agricultural land to the north of Portsdown Hill Road which had an average of seven species per 30m.
- 3.2.94 A small section of hedgerow H17, which borders New Down Lane and an area of cropland, falls within the footprint of the AGP BPT/IPS-E.
- 3.2.95 An overview of the Hedgerows Regulations survey results for Section E can be found in Table B-5 of Annex B including an assessment against the criteria for important hedgerows. A total of 20 hedgerows were surveyed and four met the criteria for 'important'.

National Vegetation Classification

- 3.2.96 There were seven NVC sites comprising four lowland mixed deciduous woodlands, two lowland calcareous grasslands and one other neutral grassland within Section E. The results for each NVC site can be found in Table 3-7.

Table 3-7 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section E

| Site | Soil type | NVC community and sub-community | HPI |
|------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 4 | Shallow, lime-rich soils over chalk/limestone soils. | The NVC community most closely matches MG1 <i>Arrhenatherum elatius</i> grassland, with a low abundance of false oat grass and the constant presence of various other species it also closely matches the MG1e <i>Centaurea nigra</i> sub-community. | Lowland calcareous grassland |

| Site | Soil type | NVC community and sub-community | HPI |
|------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 5a | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils. | The NVC community most closely matches W8 <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland community. No sub-community is discernible from the field layer due to the high abundance of common nettle and cleavers <i>Galium aparine</i> . | Lowland mixed deciduous woodland |
| 5b | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W8d <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland community. The presence of wild garlic <i>Allium ursinum</i> and dog's mercury means it most closely matches the W8f <i>Allium ursinum</i> sub-community. | Lowland mixed deciduous woodland |
| 6a | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W8 <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland. The presence of cleavers, common nettle and dog's mercury means that it most closely matches the W8e <i>Geranium robertianum</i> sub-community. However, the woodland lacks herb Robert <i>Geranium robertianum</i> . | Lowland mixed deciduous woodland |
| 6b | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W8 <i>Fraxinus excelsior</i> – <i>Acer campestre</i> woodland. The constant presence of common ivy <i>Hedera helix</i> most closely matches the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 7 | Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches MG1 <i>Arrhenatherum elatius</i> grassland, with the proportion of red fescue it mostly closely matches the MG1a <i>Festuca rubra</i> sub-community. | Lowland calcareous grassland |
| 8 | Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W10 <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, with the presence of common ivy it mostly closely matches the W10c <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 9 | Shallow, lime-rich soils over chalk/limestone soils | The NVC community most closely matches MG1 <i>Arrhenatherum elatius</i> grassland, with the proportion of red fescue meaning it mostly closely matches the MG1d <i>Pastinaca sativa</i> sub-community. The grassland also contained various calcareous grassland indicators typically associated with CG6 <i>Avenula pubescens</i> grassland. | Lowland calcareous grassland |

- 3.2.97 The NVC data table for vegetation communities identified at NVC sites 4 to 9 can be found in Table B-15 to Table B-22 of Annex B.

Section F: Boarhunt to Crockerhill

UKHab classification

Cropland

- 3.2.98 There were large parcels of arable land used to grow cereal crops between east of Wickham Road and Boarhunt Road. There was also an arable field margin in this component. A single parcel of ley comprising tussocky grassland was present south-east of Crockerhill.
- 3.2.99 The AGP Intermediate Pumping Station F (IPS-F) is proposed within a parcel of cropland at the southern end of the section, east of Wickham Road.

Grassland

- 3.2.100 There was one parcel of modified grassland and one parcel of neutral grassland either side of the River Wallington within the Order Limits. The modified grassland on the eastern side of the river was species poor, with fewer than seven species per m² and dominated by meadow foxtail and perennial rye-grass. The neutral grassland was also species poor, with fewer than 10 species per m² and consisted of a tall sward of false oat-grass and cocksfoot.
- 3.2.101 There were multiple parcels of modified grass east of Wickham Road and within the Order Limits. These grasslands are species poor with fewer than seven species per m² and consisted of meadow foxtail, Yorkshire fog, meadow buttercup and creeping buttercup *Ranunculus repens*.

Heathland and shrub

- 3.2.102 There was one large parcel of scrub south of Knowle Road adjacent to the Order Limits. This parcel of scrub consisted of bramble, blackthorn, rose sp. and hawthorn with scattered willow trees.

Rivers and lakes

- 3.2.103 The River Wallington crosses the Order Limits within this section (WCX_F_004), which was assessed as a non-priority river. Three ditches were also recorded, bordering roads and agricultural fields (including WCX_F_001 and WCX_F_002).

Woodland

- 3.2.104 There was one parcel of lowland mixed deciduous woodland known as Carpenters Copse located east of Wickham Road located adjacent to the northern boundary of the Order Limits. It is ASNW (ID 1463). A strip of lowland mixed deciduous woodland extended across the Order Limits, which is not ancient woodland. This woodland was dominated by oak and the understorey consisted of hazel, blackthorn and bramble scrub.

- 3.2.105 To the south-east of Carpenters Copse, there was a small parcel of other broadleaved woodland within the Order Limits. The woodland consisted of oak, hazel and hawthorn and the ground flora was dominated by nettles.
- 3.2.106 A line of trees bordered an arable field, with species comprising ash, pedunculate oak, elder, hawthorn and blackthorn.

Hedgerows

- 3.2.107 Eighteen native hedgerows bordered arable fields, roads, private residences and a small stretch of the River Wallington. These mostly contained blackthorn and hawthorn, with occasional elder, buckthorn *Rhamnus cathartica*, field maple and hazel. The notable species small-leaved lime was present in a hedgerow bordering a private residence (H64). Ten of the native hedgerows contained trees including oak, sycamore and ash.
- 3.2.108 Seven species-rich native hedgerows were present, bordering public roads and fields. Woody species included within the hedgerows included buckthorn, ash, blackthorn, field maple, spindle *Euonymus europaeus*, elder, hazel, dogwood, elm *Ulmus* sp., whitebeam *Sorbus* sp., hornbeam *Carpinus betulus* and willow. Seven of the hedgerows contained trees and one hedgerow (H57) was notably species rich, averaging nine species per 30m.
- 3.2.109 An overview of the Hedgerows Regulations survey results for Section F can be found in Table B-6 of Annex B, including an assessment against the criteria for important hedgerows. Eleven hedgerows were surveyed and three met the criteria for 'important'.

National Vegetation Classification

- 3.2.110 There was one NVC site within Section F. The results for this NVC site can be found in Table 3-8.

Table 3-8 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section F

| Site | Soil type | NVC community and sub-community | HPI |
|------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 10 | Freely draining lime-rich loamy soils | The NVC community most closely matches MG7 <i>Lolium perenne</i> leys and related grassland, with the constant presence of creeping bent <i>Agrostis stolonifera</i> , dandelion <i>Taraxacum officinale</i> agg., common chickweed <i>Stellaria media</i> , and dock meaning it most closely matches MG7d <i>Lolium perenne</i> leys and related grasslands, <i>Lolium perenne</i> – <i>Alopecurus pratensis</i> grassland. This grassland meets the criteria to be classified as coastal floodplain and grazing marsh HPI, as this habitat does become seasonally wet and had wet depressions. | Coastal and floodplain grazing marsh |

- 3.2.111 The NVC data table for vegetation communities identified at NVC site 10 is found in Table B-23 of Annex B.

Section G: Crockerhill to Wickham

UKHab classification

Cropland

- 3.2.112 There are multiple parcels of cropland used for growing cereal crops, clustered east of Hoads Hill and west of A334. The AGP Intermediate Pumping Station G (IPS-G) is proposed within a parcel of cropland at the northern end of the section, south-east of Titchfield Lane.
- 3.2.113 Three moderate sized parcels of ley were recorded south of Wickham, which were crop stubble sown with clovers *Trifolium* sp., other legumes, and common ragwort. An additional parcel of ley was recorded as a ploughed field east of Wickham.

Grassland

- 3.2.114 A road verge of bracken with false oat-grass and crosswort was recorded south of Wickham.
- 3.2.115 There were multiple parcels of modified grassland and one parcel of neutral grassland across Wickham Golf course and within the Order Limits. It was mown short and species poor with fewer than seven species per m² and dominated by cocksfoot, false oat-grass and perennial rye-grass. The neutral grassland was also species poor and consisted of a short sward of meadow foxtail, sweet vernal grass *Anthoxanthum odoratum* and meadow thistle *Cirsium dissectum*.
- 3.2.116 There were additional parcels of modified grassland between Mayles Lane and Hoads Hill Road and within the Order Limits. These grasslands were horse grazed and species poor with fewer than seven species per m² comprising tall fescue and Yorkshire fog. To the east of Hoads Hill, there was one parcel of neutral grassland within the Order Limits. The grass was a tall sward with false oat grass, cocksfoot, meadow buttercup and sweet vernal grass.

Wetland

- 3.2.117 There was a parcel of purple moor grass and rush pasture HPI to the east of Hoads Hill Road. This habitat consisted of purple moor grass *Molinia caerulea*, soft rush *Juncus effusus*, wild angelica *Angleica sylvestris* and there was some bracken encroachment.
- 3.2.118 To the south of the River Meon, there was a parcel of other fen wetland habitat and coastal floodplain and grazing marsh HPI, which was diverse with species consisting of water mint *Mentha aquatica*, greater pond sedge *Carex riparia*, marsh marigold *Caltha palustris* and water horsetail *Equisetum fluviatile*.

Heathland and shrub

- 3.2.119 There was one narrow parcel of bramble scrub to the east of Hoad's Hill Road within the Order Limits.

Rivers and lakes

- 3.2.120 The River Meon (WCX_G_003) flows through this section. It is an HPI as it is a chalk river.
- 3.2.121 Seven ditches were recorded, including drainage features within Wickham Park Golf Club and others which bordered agricultural fields. Macrophyte species present included hemlock water dropwort and bittersweet *Solanum dulcamara*.

Woodland

- 3.2.122 There was one parcel of lowland mixed deciduous woodland and one parcel of wet woodland located south and north of Castle Farm Lane. These woodlands were located outside the Order Limits; the wet woodland included alder and willow, and the lowland mixed deciduous woodland included ash, willow and oak.
- 3.2.123 There were multiple parcels of wet woodland, lowland mixed deciduous woodland and other broadleaved woodland within Wickham Golf Course and within the Order Limits. They included self-seeded turkey oak *Quercus cerris*, sycamore, alder and pedunculate oak trees.
- 3.2.124 There were two parcels of lowland mixed deciduous woodland located east and west of the A334 within the Order Limits, which included pedunculate oak, sycamore and a cherry laurel understorey layer.
- 3.2.125 There were two ecologically valuable lines of trees bordering arable fields adjacent to Hoad's Hill Road. Species included mature pedunculate oak, ash, elder, hazel and hawthorn. Additionally, there were six lines of trees bordering roads, arable land and within Wickham Golf Course with dominant species comprising grey willow *Salix cinerea*, silver birch *Betula pednula* and pedunculate oak.

Hedgerows

- 3.2.126 There were 16 hedgerows within this section. Seven native hedgerows bordered field boundaries and roads. Three of these contained trees and species included elm, elder, hazel, dogwood, rose sp., blackthorn, hawthorn, ash, dogwood, holly and field maple.
- 3.2.127 There were nine species-rich native hedgerows and five contained trees. Species recorded included including elder, blackthorn, pedunculate oak, sessile oak *Quercus petraea*, hazel, hawthorn, field maple, ash, dog rose, dogwood, holly, elm, guelder rose *Viburnum opulus*, yew, crab apple *Malus sylvestris* and wild cherry *Prunus avium*. Those of highest distinctiveness included: H50 within arable fields adjacent to Wickham Common, which had an average of seven to eight species per 30m and contained trees; and H116 bordering an arable field adjacent to Titchfield Lane, which had an average of seven species per 30m and contained mature trees.
- 3.2.128 There were also two non-native and ornamental hedgerows, with species comprising cherry laurel and Leyland cypress.
- 3.2.129 An overview of the Hedgerows Regulations survey results for component Section G can be found in Table B-7 of Annex B, including an assessment against the criteria for important hedgerows. Fourteen hedgerows were surveyed and eight met the criteria for 'important'.

National Vegetation Classification

3.2.130 There were nine NVC sites comprising three lowland mixed deciduous woodlands, three wet woodlands, one purple moor grass and rush pastures, one other broadleaved woodland and one other neutral grassland and swamp within Section G. A summary of each NVC site can be found in Table 3-9.

Table 3-9 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section G

| Site | Soil type | NVC community and sub-community | HPI |
|------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 11 | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soil | The NVC community most closely matches W10 <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, and with the constant presence of common ivy, bramble, and bracken most closely matching W10c <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 12 | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soil | The NVC community most closely matches W6 <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, and with the constant presence of common nettle <i>Urtica dioica</i> , it most closely matches the W6a sub-community. | Wet woodland |
| 13 | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soil | The NVC community most closely matches M23 <i>Juncus effusus/acutiflorus</i> – <i>Galium palustre</i> rush pasture, and with the proportion of false oat grass, it most closely matches the M23a sub-community | Purple moor grass and rush pastures |
| 14 | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soil | The NVC community most closely matches MG10a <i>Holcus lanatus</i> – <i>Juncus effusus</i> rush pasture. There were patches of lesser pond sedge <i>Carex acutiformis</i> associated with a S7 <i>Carex acutiformis</i> swamp NVC community. | No - swamp and other neutral grassland |
| 15 | Loamy soils with naturally high groundwater | The NVC community most closely matches W6 <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, with the constant presence of cleavers, rough meadow grass, and common nettle most closely matching the W6a typical subcommunity. | Wet woodland |
| 16 | Loamy soils with naturally high groundwater | The NVC community most closely matches W6 <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, with the constant presence of cleavers, rough meadow grass, and common nettle in quadrats 1, 2 and 3, these areas most closely match the W6a typical | Wet woodland |

| Site | Soil type | NVC community and sub-community | HPI |
|------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| | | subcommunity. Quadrat 4 most closely matches W6c <i>Salix viminalis</i> / <i>Salix triandra</i> sub-community due to the constant presence of osier <i>Salix viminalis</i> . | |
| 17 | Loamy soils with naturally high groundwater | This NVC community most closely matches W10 <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, and with the constant presence of common ivy most closely match the W10c <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 18 | Loamy soils with naturally high groundwater | This NVC community most closely matches W10 <i>Quercus robur</i> – <i>Pteridium aquilinum</i> – <i>Rubus fruticosus</i> woodland, and with the constant presence of common ivy most closely matches the W10c <i>Hedera helix</i> sub-community. | No - other broadleaved woodland |
| 19 | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W8 <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland, with the constant presence of English bluebell and common ivy most closely matching the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |

3.2.131 The NVC data table for vegetation communities identified at NVC sites 11 to 19 is found in Table B-24 to Table B-32 of Annex B.

[Section H: Wickham to Shedfield](#)

[UKHab classification](#)

[Cropland](#)

3.2.132 The largest cluster of cropland in this section was found immediately south and east of the intersection between Blind Lane and Mill Lane, which contained cereal crops. A smaller parcel was located immediately north of Gamblins Lane.

[Grassland](#)

3.2.133 There were multiple parcels of modified grassland between B2177 and Prickett's Hill. These grasslands were species poor, with fewer than seven species per m² dominated by perennial rye-grass, cocksfoot and dandelion. There were also parcels of neutral grassland east of Prickett's Hill. These grasslands had fewer than nine species per m² and consisted of false oat-grass, crested dog's tail, sweet vernal grass, red clover, lesser stitchwort *Stellaria graminea*, spotted medick *Medicago arabica*, bugloss *Anchusa arvensis*, marsh foxtail *Alopecurus geniculatus* and Yorkshire fog.

3.2.134 There was one parcel of species-rich neutral grassland to the east of Alma Lane and south of Lower Upham. This grassland had more than ten species per m² comprising crested dog's tail, meadow fescue *Festuca pratensis* and meadow foxtail, meadow buttercup and greater bird's foot trefoil *Lotus pedunculatus*.

Rivers and lakes

- 3.2.135 There was an upstream tributary of the River Hamble east of Pricketts Hill (WCX_H_001). The watercourse bisected a field and was bordered by a native hedgerow.

Heathland and shrub

- 3.2.136 There was one parcel of dense scrub to the east of High Street in Shirrel Heath, within the Order Limits. The scrub consisted of bramble, hazel and nettles with scattered willow, sycamore and silver birch trees.

Woodland

- 3.2.137 There was one parcel of lowland mixed deciduous woodland to the north-west of Prickett's Hill. The woodland was outside the Order Limits and consisted of pedunculate oak, willow dominated canopy layer and a hawthorn dominated understorey layer.
- 3.2.138 There was one parcel of coniferous woodland to the east of High Street, located outside the Order Limits. The woodland consisted of Norway spruce *Picea abies* and sparse ground flora of common ivy.
- 3.2.139 There was a large parcel of lowland mixed deciduous woodland to the east of the B2177. The woodland intersects the Order Limits and consisted of ash, silver birch and willow canopy layer with a hazel dominated understorey layer and AWI species dog's mercury.
- 3.2.140 There were two ecologically valuable line of trees that bordered pasture fields, both of which were characterised by mature pedunculate oak trees, with other species including birch, holly and hazel. One of these crosses the Order Limits (VX_H_009). Two lines of trees bordered fields, with species predominantly comprising pedunculate oak, holly, Norway maple *Acer platanooides* and grey willow.

Hedgerows

- 3.2.141 There were 39 hedgerows within this section, including nine non-native and ornamental hedgerows, with species such as Lawson's cypress and Leyland cypress.
- 3.2.142 There were 15 native hedgerows, with species most commonly including hazel, blackthorn, hawthorn and field maple. One of the hedgerows contained trees.
- 3.2.143 There were 14 species-rich native hedgerows and seven contained trees. Those of note included H86 which had an average of seven species per 30m, contained trees, and had AWI species comprising dog's mercury, English bluebell, lords and ladies *Arum maculatum* and wood anemone *Anemone nemorosa*. Furthermore, H92 had an average of six species per 30m section, contained trees and had five woodland indicator species including wood melick *Melica uniflora*, lords and ladies, black bryony *Dioscorea communis*, wood dock *Rumex sanguineus* and male fern *Dryopteris filix-mas*.
- 3.2.144 An overview of the Hedgerows Regulations survey results for Section H: Wickham to Shedfield (Section H) can be found in Table B-8 of Annex B, including an

assessment against the criteria for important hedgerows. Twenty-one hedgerows were surveyed and seven were assessed as ‘important’.

National Vegetation Classification

3.2.145 There was one NVC site within Section H. The results for this NVC site can be found in Table 3-10.

Table 3-10 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section H

| Site | Soil type | NVC community and sub-community | HPI |
|------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 20 | Slowly permeable seasonally, wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W8 <i>Fraxinus excelsior</i> – <i>Acer campestre</i> – <i>Mercurialis perennis</i> woodland, with the constant presence of common ivy most closely matching the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |

3.2.146 The NVC data table for vegetation communities identified at NVC site 20 is found in Table B-33 of Annex B.

Section J: Shedfield to the River Hamble

UKHab classification

Cropland

3.2.147 There was a cluster of large parcels of cropland north-west of Meon Valley Hotel and Country Club, comprising a mixture of cereal and non-cereal crops. A single arable field margin was mapped which comprised short tussocky grassland. A single orchard was present south-west of Waltham Chase, which had tussocky unmanaged grassland with nettles. There was a single parcel of horticulture in the form of a large plant nursery west of Waltham Chase. It also contained non-cereal crops and limited ruderal vegetation.

Grassland

3.2.148 There were multiple parcels of modified grassland and neutral grassland within this section between B2177 and south of the River Hamble and most of these were modified. They were used as horse and cow pasture and were species-poor, with fewer than seven species per m², and dominated by perennial rye-grass, meadow foxtail, cocksfoot, white clover and creeping buttercup. The neutral grasslands were species rich of more than nine species per m² and consisted of grass vetchling, sweet vernal grass, cocksfoot, meadow foxtail, betony, soft brome, Yorkshire fog, squirrel tailed fescue *Vulpia bromoides*, red clover, cut-leaved cranesbill *Geranium dissectum* and rough meadow grass.

Rivers and lakes

3.2.149 Two watercourses were present: a heavily shaded stream with vegetated banks for 50% of the length; and a shallow watercourse upstream of Shawfords Lake

south of Little Bull Lane (WCX_J_004), which had poor water quality and some emergent vegetation.

- 3.2.150 Six ditches bordered fields, with species recorded including common nettle, willowherb *Epilobium* sp. and soft rush.

Woodland

- 3.2.151 There were multiple of parcels of lowland mixed deciduous woodland to the west of the B2177. The woodlands were within the Order Limits and had an ash and oak canopy with an understorey layer of hazel, holly and blackthorn. There were AWIs, namely dog's mercury and wood anemone.
- 3.2.152 There were two parcels of lowland mixed deciduous woodland to the north of Sandy Lane within the Order Limits. They consisted of young self-seeded oak, ash and holly trees on potential ancient woodland soils due to the presence of AWIs including English bluebells.
- 3.2.153 To the south of the River Hamble was lowland mixed deciduous woodland located adjacent to the Order Limits and consisting of ash and oak canopy with occasional beech and cherry. The woodlands had an understorey of hazel and holly with AWIs comprising wood anemone, English bluebells and dog's mercury.
- 3.2.154 Seven ecologically valuable line of trees were present (three of which were within the Order Limits), comprising mature oak trees bordering field margins and a pond.
- 3.2.155 An additional ten lines of trees were present, bordering field margins and roads. Tree species included ash, pedunculate oak, field maple, elder, wild cherry, hazel and grey willow.

Hedgerows

- 3.2.156 Ten native hedgerows were recorded, predominantly bordering arable fields and occasionally roads and public footpaths. The species most commonly noted were blackthorn, hawthorn and hazel. Four of the hedgerows contained trees, while one hedgerow (H140) had been flailed and the hazel coppiced.
- 3.2.157 Three non-native and ornamental hedgerows were present, predominantly bordering private residences. Species included Leyland cypress, cherry laurel and evergreen spindle *Euonymus japonicus*.
- 3.2.158 There were 14 species-rich, native hedgerows, bordering public footpaths, roads, farmyards and arable fields. Species included hawthorn, dogwood, hazel, blackthorn, field maple, crab apple, dog rose, holly and grey willow. Five of the hedgerows contained trees including ash and pedunculate oak.
- 3.2.159 An overview of the Hedgerows Regulations survey results for Section J can be found in Table B-9 of Annex B, including an assessment against the criteria for important hedgerows. Fifteen hedgerows were surveyed and four met the criteria for 'important'.

National Vegetation Classification

3.2.160 There were six NVC sites, each containing lowland mixed deciduous woodlands, with one also including a hedgerow with trees within Section J. A summary of each NVC site can be found in Table 3-11.

Table 3-11 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section J

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 21a | Slowly permeable seasonally, wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W8 <i>Fraxinus excelsior – Acer campestre – Mercurialis perennis</i> woodland, and with the constant presence of common ivy it most closely matches the W8d <i>Hedera helix</i> sub-community. The woodland appears to be an intermediate community between W8 and W10 due to the additional constant presence of bracken and pedunculate oak. | Lowland mixed deciduous woodland |
| 21b | Slowly permeable seasonally, wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W8 <i>Fraxinus excelsior – Acer campestre – Mercurialis perennis</i> woodland, and with the constant presence of common ivy it most closely matches the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 22 | Slowly permeable seasonally, wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W10 <i>Quercus robur – Pteridium aquilinum – Rubus fruticosus</i> woodland, and with the constant presence of Yorkshire fog it most closely matches the W10d <i>Holcus lanatus</i> sub-community. | Lowland mixed deciduous woodland |
| 23 | Slowly permeable seasonally, wet slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches W10 <i>Quercus robur – Pteridium aquilinum – Rubus fruticosus</i> woodland, and with the constant presence of common ivy it most closely matches the W10c <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 24 | Loamy soils with naturally high groundwater | The NVC community most closely matches W10 <i>Quercus robur – Pteridium aquilinum – Rubus fruticosus</i> woodland, and with the constant presence of common ivy it most closely matches the W10c <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 25 | Loamy soils with naturally high groundwater | The NVC community within quadrats 1 and 2 most closely matches W10 <i>Quercus robur – Pteridium aquilinum – Rubus fruticosus</i> woodland, and with the constant presence of common ivy it most closely matches the W10c <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| | | The NVC community within quadrat 3 closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland and with the constant presence of common ivy most closely matches the W8d <i>Hedera helix</i> sub-community. This habitat qualifies as lowland mixed deciduous woodland HPI. | |
| 26a | Loamy soils with naturally high groundwater | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, and with the constant presence of common ivy <i>subsp. Helix</i> , dogs' mercury, most closely matches the W8d <i>Hedera helix</i> sub-community. This hedgerow with trees had a higher proportion of grasses and common nettle. | Native hedgerow with trees |
| 26b | Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland and with the constant presence of English bluebells <i>Hyacinthoides non-scripta</i> , lesser celandine <i>Ficaria verna</i> , and wood anemone most closely matches the W8b <i>Anemone nemorosa</i> sub-community. | Lowland mixed deciduous woodland |

3.2.161 The NVC data table for vegetation communities identified at NVC sites 21 to 26 is found in Table B-34 to Table B-40 of Annex B.

[Section K: The River Hamble to Lower Upham](#)

[UKHab classification](#)

[Cropland](#)

3.2.162 A single parcel of cereal cropland is located at Ford Farm in the east of this section.

[Grassland](#)

3.2.163 There was an area of other lowland acid grassland located east of Waltham Chase marginally within and predominantly south of the Order Limits that had been left unmanaged as horse pasture. The grassland included abundant common bent *Agrostis capillaris*, occasional bird's foot trefoil and rare common centaury *Centaureum erythraea* and there were frequent clumps of dense bramble and rose scrub throughout and along the edge.

3.2.164 There were also several areas of other neutral grassland, including within the Order Limits. There were three parcels to the north and south of the River Hamble within the southern extent of the section, including an area of species-rich g3c7 *Deschampsia* grassland in good condition within the Order Limits to the south of the river with areas of inundation and marshy grassland. Species recorded included common bent, tufted hair grass *Deschampsia cespitosa*, red fescue, common knapweed, and common vetch *Vicia sativa*. There was an area of other neutral grassland used as horse-grazing within the footprint of the proposed

temporary construction compound K-3, which was species-poor, including Yorkshire fog, meadow foxtail, crested dog's-tail, sweet vernal grass, cocksfoot and false-oat grass.

- 3.2.165 A large area of other neutral grassland was recorded north of Winter's Hill, which falls within the Order Limits and encompassed the location of the proposed temporary construction compound K-5. In conjunction with the woodland habitat and veteran trees (which are described below), it qualifies as wood-pasture and parkland HPI. The grassland species list included abundant meadow foxtail and false oat-grass as well as occasional meadow buttercup and broadleaved dock.
- 3.2.166 To the east and west of the Scivier's Lane south of Lower Upham and partly within the Order Limits, there were two parcels of other neutral grassland; these grasslands were species poor and comprised false oat-grass, Yorkshire fog, cocksfoot and meadow foxtail. To the east of Alma Lane and south of Lower Upham outside the Order Limits, there was an additional parcel of other neutral grassland located within the 50m buffer.
- 3.2.167 There were multiple parcels of modified grassland within this section between B3037 Mortimers Lane and west of Kimbers Copse, south of Winters Hill and the land north of the River Hamble. These parcels of grassland included areas of sheep pasture and had fewer than seven species per m² dominated by rye grass *Lolium* sp., creeping bent, meadow foxtail and creeping buttercup.
- 3.2.168 The AGP Break Pressure Tank K (BPT-K) is proposed within a parcel of modified grassland at the northern end of the section, east of Scivier's Lane. The AGP site would occupy an area of 0.47ha within this habitat.

Heathland and shrub

- 3.2.169 There were two parcels of mixed scrub south of the Winters Hill road and east of Sciever's Lane adjacent to the Order Limits. These consisted of field maple, rose sp., hawthorn, bramble and blackthorn.

Rivers and lakes

- 3.2.170 Six watercourses were recorded, including the River Hamble (WCX_K_002), tributaries connecting to the River Hamble and two watercourses upstream of the Horton Heath Stream east of Alma Lane (WCX_K_005) and east of Scivier's Lane (WCX_K_006).
- 3.2.171 There were nine ditches to the south-east of Mortimer's Lane, to the east of Scivier's Lane and north and south of Winter's Hill Road. Some ditches were heavily shaded and of poor water quality.

Woodland

- 3.2.172 There was a parcel of lowland mixed deciduous woodland adjacent to an area of wood-pasture and parkland HPI north of Winters Hill. The woodland is located outside the Order Limits.
- 3.2.173 There were two parcels of lowland mixed deciduous and one parcel of wet woodland either side of the River Hamble and to the south-west of Brooklands Farm. One is located within and the other two border the Order Limits. These

woodlands were dominated by an alder, oak and ash canopy with an understorey of hazel, hawthorn and holly and had a diverse assemblage of AWIs including English bluebells, broad buckler fern *Dryopteris dilatata*, wild garlic, wood anemone, wood speedwell *Veronica montana*, three nerved sandwort *Moehringia trinervia* and wood sedge.

- 3.2.174 Three ecologically valuable lines of trees bordered field margins and predominantly comprised pedunculate oak, with occasional willow, hawthorn, blackthorn and ash. An ecologically valuable line of trees bordered a parcel of modified grassland adjacent to the east of Scivier’s Lane within the footprint of AGP BPT-K. Four more lines of trees bordered fields, with species including pedunculate oak, ash, willow and hawthorn.
- 3.2.175 To the north of Winter’s Hill, there was an area of wood-pasture and parkland HPI comprising blocks of trees and other neutral grassland. The woodland contained standing deadwood and veteran trees with species including willow pedunculate oak and hawthorn.

Hedgerows

- 3.2.176 In total, 67 hedgerows were recorded, with species most commonly present including hawthorn, ash, blackthorn and hazel. Nine of the hedgerows contained trees.
- 3.2.177 There were 36 species-rich native hedgerows, with species including blackthorn, hawthorn, sycamore, dog rose, holly, ash, pedunculate oak, field maple, apple *Malus* sp., dogwood, wild privet, wild plum *Prunus domestica*, hazel, willow and silver birch. A total of nine of the hedgerows contained trees.
- 3.2.178 There were four non-native and ornamental hedgerows, with species such as cherry laurel and rhododendron *Rhododendron ponticum*.
- 3.2.179 An overview of the Hedgerows Regulations survey results for Section K can be found in Table B-10 of Annex B, including an assessment against the criteria for important hedgerows. A total of 22 hedgerows were surveyed and 10 met the criteria for ‘important’.

National Vegetation Classification

- 3.2.180 There were seven NVC sites comprising: five lowland mixed deciduous woodlands (including one also containing wet woodland); one wood-pasture and parkland; and one other lowland acid grassland within Section K. A summary of each NVC site can be found in Table 3-12.

Table 3-12 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section K

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 27 | Slowly permeable seasonally, wet slightly acid but base-rich loamy and clayey soils | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, and with the constant presence of herb Robert, common ivy, and dogs’ mercury most closely matches the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 28 | Slowly permeable seasonally, wet slightly acid but base-rich loamy and clayey soils | This NVC community most closely matches W8 <i>Fraxinus excelsior - Acer campestre - Mercurialis perennis</i> woodland, and with the constant presence of common ivy most closely matches the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 29 | Loamy soils with naturally high groundwater | This NVC community most closely matches W8 <i>Fraxinus excelsior - Acer campestre - Mercurialis perennis</i> woodland, and with the constant presence of common ivy subsp. <i>Helix</i> , dogs' mercury and Herb robert match the W8e <i>Geranium robertianum</i> sub-community. The NVC community in the south-west of section of this woodland most closely matches W6 <i>Alnus glutinosa – Urtica dioica</i> woodland, due to a alder dominated canopy. Although a sub-community could not be determined, as this woodland is a transition to wet woodland. | Lowland mixed deciduous woodland Wet woodland |
| 30 | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | This NVC community most closely matches the U1 <i>Festuca ovina-Agrostis capillaris-Rumex acetosella</i> acid grassland, and with the constant presence of cat's-ear <i>Hypochoeris radicata</i> it most closely matches the U1f <i>Hypochoeris radicata</i> sub-community. | No - other lowland acid grassland |
| 31 | Freely draining slightly acid loamy soils | This NVC community most closely matches W10 <i>Quercus robur-Pteridium aquilinum-Rubus fruticosus</i> woodland, the habitat does not match to a particular NVC sub-community. This habitat consisted of blocks of veteran and ancient trees, hollow trees, standing deadwood offering microhabitats for invertebrates and surrounded by open grassland managed by grazing animals with long-lived individual trees. | Wood-pasture and parkland |
| 32 | Loamy soils with naturally high groundwater soils | This NVC community most closely matches W10 <i>Quercus robur-Pteridium aquilinum-Rubus fruticosus</i> woodland, the habitat does not match to a particular NVC sub-community. | Lowland mixed deciduous woodland |
| 33 | Loamy soils with naturally high groundwater soils | This NVC community most closely matches W8 <i>Fraxinus excelsior-Acer campestre-Mercurialis perennis</i> woodland and with the constant presence of common ivy, wood avens <i>Geum urbanum</i> and false brome <i>Brachypodium sylvaticum</i> it appears to most closely matches the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |

3.2.181 The NVC data table for vegetation communities identified at NVC sites 27 to 33 is found in Table B-41 to Table B-48 of Annex B.

Section L: Lower Upham to Brambridge

UKHab classification

Cropland

- 3.2.182 There were small to medium sized cereal cropland parcels south of Portsmouth Road between Lower Upham and Crowdhill. A single parcel of ley sown with grasses was present east of Lowhill Farm.

Grassland

- 3.2.183 There were multiple parcels of modified grassland between Highbridge Road and the B3345 and in between B3037 and B3037 Mortimers Lane. These parcels of grassland were species poor, with fewer than seven species per m², dominated by meadow foxtail, perennial rye-grass, Yorkshire fog and Timothy *Phleum pratense*.
- 3.2.184 To the east of the B3345 south of Fishers Pond, there were two parcels of neutral grassland. The southern area within the Order Limits is designated as Fielders Farm Meadows (Eastleigh) SINC was a good representation of g3c6 *Lolium perenne-Cynosurus cristatus* grassland, due to constant presence of crested dog's tail, meadow foxtail, red fescue and Yorkshire fog. It also contained meadow barley *Hordeum secalinum* which is an ancient meadow indicator. The grassland included areas of tall fen and swamp. However, it was in poor condition with Himalayan balsam present. The northern portion is designated as Fielders Farm Meadows (Winchester) SINC; it was other neutral grassland which was species poor, with abundant meadow fescue and meadow foxtail, frequent creeping bent, and occasional timothy grass.

Heathland and shrub

- 3.2.185 A parcel of dense mixed scrub was present south of Portsmouth Road, immediately adjacent to the area of modified grassland within the Order Limits. This parcel of scrub consisted of blackthorn, willow and hawthorn with scattered oak trees, rides and glades and a well-developed edge.

Rivers and lakes

- 3.2.186 A pond was recorded south of the Order Limits within the 50m buffer. There were six watercourses: an upstream tributary of the River Itchen north of Wardle Road (WCX_L_001), Store House Gully (WCX_L_002), a drain upstream of Bow Lake north of Park Hills Wood (WCX_L_003) and Bow Lake which was a priority river (WCX_L_005). There were also two drains crossing the Order Limits and flowing south to Bow Lake south of Nob's Crook along hedgerows (WCX_L_006 and WCX_L_007).
- 3.2.187 Five ditches were recorded. These comprised a heavily shaded dry ditch at the base of woodland shelterbelt and four wet ditches bordering fields.

Woodland

- 3.2.188 There was an area of wet woodland to the east of Highbridge Road dominated by willow with holly and hawthorn understorey layer.

- 3.2.189 There was an area of lowland mixed deciduous woodland south of the Order Limits at Hill Copse, dominated by pedunculate oak and ash trees. There was another area of lowland mixed deciduous woodland bordering the Order Limits to the east of Winchester Road, dominated by oak and a layer of hazel and hawthorn, which had a diverse assemblage of AWIs including English bluebells, wood anemone and wild garlic.
- 3.2.190 Chestnut Gully Wood lowland mixed deciduous woodland was predominantly south of but slightly encroaching on the Order Limits. This woodland had a canopy of pedunculate oak and ash and an understorey layer of hawthorn and hazel. It also had a diverse assemblage of ancient woodland indicators including English bluebells, wood sedge and dogs' mercury.
- 3.2.191 There were two belts of lowland mixed deciduous woodland located south of the B2177 that crossed the Order Limits (VX_L_002 and VX_L_003). They had a canopy of oak and ash trees with an understorey layer of hawthorn and field maple trees.
- 3.2.192 Six lines of trees were bordering fields and a public footpath, which comprised pedunculate oak, sycamore, hawthorn, field maple, elder, willow and birch.

Hedgerows

- 3.2.193 A total of 51 native hedgerows were present, with the most common species comprising blackthorn, hawthorn, pedunculate oak, ash and field maple. Of these, 25 hedgerows contained trees.
- 3.2.194 There were 19 species-rich native hedgerows, with species including blackthorn, hawthorn, wild plum, dog rose, ash, pedunculate oak, field maple, spindle, elder, dogwood, holly, elm, willow and, notably, large-leaved lime within H236. Eight of the hedgerows contained trees. Hedgerows of the highest distinctiveness included H263 and H246 which averaged seven species per 30m; the latter also had six AWI species (dog's mercury, lords and ladies, common primrose, scaly male fern, English bluebell and wood anemone).
- 3.2.195 An overview of the Hedgerows Regulations survey results for Section L can be found in Table B-11 of Annex B, including an assessment against the criteria for important hedgerows. A total of 38 hedgerows were surveyed and 15 met the criteria for 'important'.

National Vegetation Classification

- 3.2.196 There were seven NVC sites comprising of four lowland mixed deciduous woodlands, one wet woodland, one coastal floodplain and grazing marsh and one modified grassland within Section L. The results for each NVC site can be found in Table 3-13.

Table 3-13 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section L

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 34a | Loamy soils with naturally high | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, and with the | Lowland mixed deciduous woodland |

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| | groundwater soils | constant presence of common ivy, false brome <i>Brachypodium sylvaticum</i> , and wood dock associated with a W8d <i>Hedera helix</i> sub-community. | |
| 34b | Loamy soils with naturally high groundwater soils | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland and with the constant presence of common ivy associated with a W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 35 | Loamy soils with naturally high groundwater soils | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, and with the constant presence of common ivy, bramble, enchanters' nightshade <i>Circaea lutetiana</i> and false brome <i>Brachypodium sylvaticum</i> most closely matching the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 36 | Loamy soils with naturally high groundwater soils | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, and with the constant presence of wood anemone and false brome <i>Brachypodium sylvaticum</i> and common ivy associated with a W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 37a | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | This NVC community most closely matches MG7a <i>Lolium perenne</i> leys and related grasslands, <i>Lolium perenne</i> - <i>Trifolium repens</i> leys sub-community. This habitat does not qualify as coastal and floodplain grazing marsh HPI due to the absence of ditches, swamp and water filled hollows. | No - modified grassland |
| 37b | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | This NVC community most closely matches MG7a <i>Lolium perenne</i> leys and related grasslands, <i>Lolium perenne</i> - <i>Trifolium repens</i> leys sub-community. | No - modified grassland |
| 38 | Slowly permeable, seasonally wet slightly acid but base-rich loamy and clayey soils | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, and with the constant presence of common ivy, dogs' mercury, common dog violet <i>Viola riviniana</i> , wood avens and enchanters' nightshade most closely matches the W8d <i>Hedera helix</i> sub-community. | Lowland mixed deciduous woodland |
| 39a | Slowly permeable, seasonally wet, slightly acid but | The NVC community most closely matches S22 <i>Glyceria fluitans</i> water-margin vegetation, and with the constant presence of floating sweet | Coastal and floodplain grazing marsh |

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| | base-rich loamy and clayey soils | grass <i>Glyceria fluitans</i> it also closely matches S22a <i>Glyceria fluitans</i> sub-community. | |
| 39b | Slowly permeable, seasonally wet, slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches S28 <i>Phalaris arundinacea</i> tall-herb fen with some species associated with the S26 <i>Phragmites australis-Urtica dioica</i> tall-herb fen NVC community. However, with the constant presence of reed canary grass <i>Phalaris arundinacea</i> and common nettle, it most closely matches the S28b <i>Phalaris arundinacea</i> tall-herb fen, <i>Epilobium hirsutum-Urtica dioica</i> sub-community with no great willowherb <i>Epilobium hirsutum</i> . | Coastal and floodplain grazing marsh |
| 39c | Slowly permeable, seasonally wet, slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches S6 <i>Carex riparia</i> swamp with a higher proportion of hard rush <i>Juncus inflexus</i> , false oat grass, compact rush <i>Juncus conglomeratus</i> , and clustered dock species associated with M27 <i>Filipendula ulmaria-Angelica sylvestris</i> mire and MG9 <i>Holcus lanatus-Deschampsia cespitosa</i> grassland communities. | Coastal and floodplain grazing marsh |
| 39d | Slowly permeable, seasonally wet, slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches S6 <i>Carex riparia</i> swamp with a higher proportion of amphibious bistort <i>Persicaria amphibia</i> associated with an A10 <i>Polygonum amphibium</i> NVC community. | Coastal and floodplain grazing marsh |
| 39e | Slowly permeable, seasonally wet, slightly acid but base-rich loamy and clayey soils | The NVC community most closely matches the MG6a <i>Lolium perenne-Cynosurus cristatus</i> sub-community grassland, due to the presence of crested dog's-tail, meadow foxtail, red fescue and Yorkshire fog. The grassland also had a low presence of rye grasses and cocksfoot, and a higher presence of rough meadow grass compared to a typical MG6a sub-community. The grassland also contained meadow barley which is an ancient meadow indicator. | Coastal and floodplain grazing marsh |
| 40 | Loamy soils with naturally high groundwater soils | This NVC community most closely matches W6 <i>Alnus glutinosa – Urtica dioica</i> woodland, and with the constant presence of bramble and common nettle most closely match the W6b <i>Salix fragilis</i> sub-community. | Wet woodland |

3.2.197 The NVC data table for vegetation communities identified at NVC site 34 to 40 is found in Table B-49 to Table B-61 of Annex B.

Section M: Brambridge to Otterbourne Water Supply Works

UKHab classification

Grassland

- 3.2.198 At the southern end of the component, immediately west of Highbridge Road, there was a parcel of wet neutral grassland. This grassland was relatively species poor, with fewer than nine species per m² and dominated by meadow foxtail and frequent Yorkshire fog.
- 3.2.199 To the west of the railway line, there were two parcels of neutral grassland with one of these grasslands containing swamp habitat. These grasslands were species poor, with fewer than nine species per m². One parcel had a high-water table, with dominant meadow foxtail and abundant soft rush, as well as frequent Yorkshire fog and purple moor grass and was coastal floodplain and grazing marsh HPI.
- 3.2.200 The largest area neutral grassland within this section was immediately south of Otterbourne WSW. This grassland was coastal floodplain and grazing marsh and was relatively species rich with 9-10 species per m². It was dominated by false oat-grass and cocksfoot with tussocky areas and occasional species including common comfrey, cleavers *Galium aparine* and hogweed.
- 3.2.201 To the south of the main parcel of neutral grassland, immediately north of Kiln Road, the grassland quality diminished and was classified as modified grassland. There was a small parcel of neutral grassland immediately south of Kiln Road. This grassland was relatively species poor, with fewer than nine species per m² and was dominated by false oat-grass.
- 3.2.202 There were four parcels of modified grassland within this section, immediately north-east of Otterbourne Woods. These grasslands were species poor, with fewer than seven species per m² dominated by meadow foxtail, frequent Yorkshire fog and rye grass. An area of modified grassland that qualifies as coastal floodplain and grazing marsh was recorded west of the River Itchen, which was not inundated at the time of the survey, but the presence of hard rush indicated periodic inundation. The grassland was dominated with perennial rye-grass with scattered trees and other species including frequent creeping buttercup and cocksfoot, occasional hard rush and rare broadleaved dock.

Wetland

- 3.2.203 East of the temporary construction compound M-1, a parcel of other wetland habitat was recorded that was frequently wet with dominant dense bramble, frequent soft rush occasional hard rush and tufted hair grass. At Otterbourne WSW within the 50m buffer, two parcels of other wetland swamp/fen were recorded that met the criteria for coastal and floodplain grazing marsh HPI.

Heathland and shrub

- 3.2.204 A parcel of dense hawthorn dominated scrub was present south of Otterbourne WSW, immediately adjacent to the area of neutral grassland. There was a parcel of mixed scrub to the west of Highbridge road within the Order Limits, which

consisted of dense bramble, gorse *Ulex europaeus* and willow and sycamore saplings.

Rivers and lakes

- 3.2.205 Two stretches of the River Itchen were recorded within the centre of the section and to the east of the railway line (WCX_M_010 and WCX_M_011). There was a stream immediately west of the railway line within the centre of the section (WCX_M_009).
- 3.2.206 There were six ditches, including two that ran either side of Kiln Lane (WCX_M_004 and WCX_M_006) and a ditch crossing a field of modified grassland (WCX_M_008).

Woodland

- 3.2.207 There was a linear stretch of common beech, Scot's pine and wild plum dominated other mixed woodland on the western boundary of the Otterbourne WSW. There was an area of wet woodland in between two stretches of the River Itchen, dominated by alder and grey willow. There was also an area of other broadleaved woodland bordering Highbridge Road, dominated by grey poplar trees.
- 3.2.208 Two lines of trees were present, including a line of cedar *Cedrus* sp., pine *Pinus* sp., hornbeam and field maple trees along the southern boundary of Otterbourne WSW.

Hedgerows

- 3.2.209 Seven native hedgerows bordered the railway line to the west, fields of modified and neutral grassland and an area of broadleaved woodland. Species most commonly present included hawthorn, blackthorn, hazel and pedunculate oak. Two of the hedgerows contained trees.
- 3.2.210 There were another seven species-rich hedgerows, with species including hawthorn, hazel, field maple, guelder rose, spindle, holly, dogwood, dog rose, blackthorn, willow and elder. Four of the hedgerows contained trees. The most notable hedgerow (H284) had an average of seven species per 30m and six AWI species including hard-shield fern *Polystichum aculeatum*, male fern, English bluebell, wood anemone, lords and ladies and common dog violet.
- 3.2.211 An overview of the Hedgerows Regulations survey results for Section M can be found in Table B-12 of Annex B, including an assessment against the criteria for important hedgerows. Eight hedgerows were surveyed and five were assessed as 'important'.

National Vegetation Classification

- 3.2.212 There were four NVC sites comprising one lowland mixed deciduous woodland, one wet woodland and two coastal and floodplain grazing marsh sites within Section M. The results for each NVC site can be found in Table 3-14.

Table 3-14 National Vegetation Classification results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works Section M

| Site number | Soil type | NVC community and sub-community | HPI |
|-------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 41 | Fen peat soils | W6 <i>Alnus glutinosa</i> – <i>Urtica dioica</i> woodland, and with the constant presence of common nettle, cleavers, rough meadow grass most closely matches the W6a typical sub-community. | Wet woodland |
| 42 | Freely draining slightly acid loamy soils. | The NVC community most closely matches S7 <i>Carex acutiformis</i> swamp with Yorkshire fog, Creeping buttercup and meadow foxtail associated with MG10 <i>Holcus lanatus</i> - <i>Juncus effusus</i> rush-pasture grassland communities. This habitat was located adjacent to slow moving watercourses and classified as other fen wetland habitats. | Coastal and floodplain grazing marsh |
| 43 | Freely draining slightly acid loamy soils | This NVC community most closely matches W8 <i>Fraxinus excelsior</i> - <i>Acer campestre</i> - <i>Mercurialis perennis</i> woodland, and with the constant presence of common ivy ssp. <i>Helix</i> , lesser celandine, wood anemone, common dog violet, wood avens <i>Geum urbanum</i> and enchanters' nightshade most closely match the W8b <i>Anemone nemorosa</i> sub-community. | Lowland mixed deciduous woodland |
| 44a | Freely draining slightly acid loamy soils | The NVC community most closely matches MG1 <i>Arrhenatherum elatius</i> grassland, with the proportion of common couch <i>Elmyus repens</i> , cocksfoot and Yorkshire fog associated with the MG1c <i>Filipendula ulmaria</i> sub-community. | Coastal and floodplain grazing marsh |
| 44b | Freely draining slightly acid loamy soils | The NVC community most closely matches S6 <i>Carex riparia</i> swamp due to a dominance of greater pond-sedge. This community is commonly found within a range of waterlogged soils adjacent to mesotrophic and eutrophic slow-moving waters. | Coastal and floodplain grazing marsh |

3.2.213 The frequency table for vegetation communities identified at NVC sites 41 to 44 are found in Table B-62 to Table B-66 of Annex B.

4 Summary

Data search

Ancient woodland and ancient, veteran and notable trees

- 4.1.1 A total of 10 parcels of ANSW and three PAWS fall within 30m of the Order Limits, of these four are adjacent to the Order Limits, within the Pipeline between the WRP site and Otterbourne WSW component.
- 4.1.2 One ancient oak tree (T70) falls within the Order Limits, approximately 21m east of temporary construction compound L-4, and one ancient common beech tree (T1430) is located within the Limits of Deviation at Bedhampton Springs. Full details of additional ancient, veteran or notable trees can be found within the Appendix 13.5 Arboricultural Impact Assessment, Volume II (Document reference 6.2, DCO Volume 6).

Habitats of principal importance in conserving biodiversity

- 4.1.3 The data search identified a total of 12 HPis comprising: coastal saltmarsh; coastal sand dunes; coastal vegetated shingle; intertidal mudflats; purple moor grass and rush pastures; reedbed; lowland dry acid grassland; lowland calcareous grassland; lowland meadows; rivers; wet woodland; lowland mixed deciduous woodland; and coastal and floodplain grazing marsh. These fall within the Order Limits except for purple moor grass and rush pastures and lowland dry acid grassland.

Protected and notable plants and invasive non-native species

- 4.1.4 A total of 123 protected and notable plant species were recorded within 2km of the Order Limits. No records of plant species listed on Schedule 5 of the Habitats Regulations were returned. Records of Jersey cudweed, field cow-wheat and lizard orchid were returned, which are listed on Schedule 8 of the WCA, although these records do not fall within hectads within the Order Limits.
- 4.1.5 Notable species included chalk eyebright, slender hare's-ear, chamomile and cornflower that are S41 species that fall within grid squares covering the Order Limits. Additional species records were returned from the Vascular Plant England Red Data Lists, as well as 'Nationally Rare' and 'Nationally Scarce' species and species that are scarce in Hampshire.
- 4.1.6 A total of 74 different species of INNS plants were recorded within 2km of the Order Limits, including Himalayan balsam, montbretia, wall cotoneaster, three-cornered leek, Japanese knotweed, few flowered garlic, Japanese rose that were recorded within hectads within the Order Limits. These species are listed on Schedule 9 of the WCA.

Field surveys

UKHab classification

- 4.1.7 Cropland habitats comprised the largest area within the field survey area and were a mixture of cereal and non-cereal crops, with some arable field margins, which is

an HPI. Modified grassland was the second-most recorded habitat type by area, predominantly towards the west. Urban areas were predominantly associated with Havant to the east.

- 4.1.8 Most of the woodlands were deciduous, including areas of lowland mixed deciduous, wet woodland and wood-pasture and parkland which are HPIs. There were also fragmented parcels of other mixed and coniferous woodland.
- 4.1.9 Other neutral grassland was also frequently recorded, including an area classified as OMH at the WRP site, which is an HPI. Lowland calcareous grassland HPI was also recorded including within the Order Limits at Farlington WTW in Section D and in Section E. A small parcel of lowland acid grassland HPI was recorded east of Waltham Chase within Section K of which a small area was within the Order Limits.
- 4.1.10 Bramble, hawthorn and mixed scrub were sparse across the Order Limits. Hedgerows were frequently recorded particularly bordering agricultural fields; they were predominantly native (an HPI) and species-rich, several containing features such as trees and AWI plants.
- 4.1.11 Wetland habitats included purple moor grass and rush pastures within the 50m buffer and reedbeds at Budds Farm WTW. Both are HPIs. Waterbodies included eutrophic standing water and one pond (both HPIs) within the Order Limits. Four priority rivers were recorded within proposed trenchless crossings as well as 29 other rivers and streams, 20 of which cross the Order Limits. There were areas of coastal and floodplain grazing marsh HPI associated with the River Wallington, Hamble, Meon, Hamble, Itchen and Bow Lake.

Hedgerows Regulations

- 4.1.12 A total of 57 hedgerows were classified as ‘important’ under the Wildlife and Landscape Criteria of the Hedgerows Regulations 1997. This includes 44 within and 13 outside the Order Limits. A total of 126 hedgerows were not subject to survey and were assumed ‘important’. This includes 56 within and 70 outside of the Order Limits.

National Vegetation Classification

- 4.1.13 A total of 44 sites were subject to NVC surveys, representing grassland and woodland. There were 30 woodland sites, distributed evenly throughout the field survey area, consisting of 23 lowland mixed deciduous woodland HPI sites (mostly W8d *Hedera helix* sub-community), five wet woodland HPI and one other broadleaved woodland site. There was also one NVC site classified as wood-pasture and parkland HPI.

There was a total of 14 grassland NVC sites distributed evenly throughout the field survey area, of which four were coastal floodplain and grazing marsh HPI, one purple moor grass and rush pasture HPI, one other lowland acid grassland, one modified grassland, one other neutral grassland and one area of swamp and other neutral grassland. There was also one area of OMH HPI at the WRP site. There were five lowland calcareous grassland HPI sites in Section D and Section E of the Order Limits.

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Annex A Desk study

A.1 Ancient woodland and ancient, veteran and notable trees

A.1.1 Table A-1 below summarises the relevant parcels of ancient woodland within the desk study area. This excludes those within 200m of Havant Thicket Reservoir, the pipelines being delivered by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir (Portsmouth Waters pipelines) and the tunnel to Eastney Long Sea Outfall (LSO), unless these fall within the affected road network.

Table A-1 Ancient Woodland Inventory sites within the desk study area

| Ancient Woodland Inventory site | ID | Designation | Size (ha) | Within the Order Limits | Distance from the Order Limits | Direction of the Order Limits from the site | Nearest section |
|---------------------------------|---------|---------------------------------------------|-----------|-------------------------|--------------------------------|---------------------------------------------|-----------------------------|
| Great Copse | 2040 | Ancient semi-natural woodland (ASNW) | 4.93 | Yes | 0m | N/A | Portsmouth Waters pipelines |
| Wakeford's Copse | 3703 | ASNW | 2.57 | No | 532m | W | Portsmouth Waters pipelines |
| Battin's Copse | 1152 | ASNW | 2.66 | No | 562m | W | Portsmouth Waters pipelines |
| Stroud Coppice | 3515 | Plantation on ancient woodland sites (PAWS) | 5.34 | No | 54m | S | E |
| Damson Row | 1662 | ASNW | 0.49 | No | 82m | NE | E |
| Dell Row | 1683 | ASNW | 2.49 | No | 137m | SW | F |
| Carpenters Copse | 1463 | ASNW | 6.38 | No | 0m | SW and W | F |
| Unnamed | 0171 | ASNW | 2.19 | No | 215m | E | F |
| Bone's Copse | 1266 | ASNW | 0.42 | No | 153m | W | G |
| Unnamed | 1488658 | ASNW | 0.88 | No | 312m | N | G |
| Lower Hunts Coppice | 2675 | ASNW | 2.74 | No | 144m | SW | G |
| Unnamed | 0209 | ASNW | 1.45 | No | 121m | E | G |
| Unnamed | 0928 | PAWS | 1.19 | No | 196m | E | G |

| Ancient Woodland Inventory site | ID | Designation | Size (ha) | Within the Order Limits | Distance from the Order Limits | Direction of the Order Limits from the site | Nearest section |
|---------------------------------|---------|-------------|-----------|-------------------------|--------------------------------|---------------------------------------------|-----------------|
| Birchfrith/Aylesbury Copses | 1199 | ASNW | 11.90 | No | 69m | N | G |
| Old Warren Copse | 2938 | ASNW | 0.78 | No | 107m | E | G |
| Redhill Copse | 3161 | ASNW | 4.17 | No | 243m | S | G |
| Unnamed | 1488463 | ASNW | 9.44 | No | 530m | SE | G |
| Shirrel Copse | 3332 | PAWS | 3.96 | No | 17m | NE | H |
| Unnamed | 0230 | ASNW | 2.18 | No | 6m | SW | H |
| Hilly Cantsley | 2320 | PAWS | 0.54 | No | 2m | E | J |
| Long Acre Copse | 2625 | ASNW | 1.01 | No | 157m | NE | J |
| Unnamed | 0258 | ASNW | 0.71 | No | 138m | NE | J |
| Sandles Copse | 3254 | PAWS | 1.1 | No | 195m | E | J |
| Unnamed | 1487945 | ASNW | 2.92 | No | 949m | NE | J |
| Crooked Row | 1487732 | ASNW | 2.82 | No | 1045m | NE | J |
| Harfield's Row | 2224 | ASNW | 1.79 | No | 386m | NE | J |
| Lodge Copse | 2622 | ASNW | 0.39 | No | 28m | S | K |
| Kimbers Copse | 2502 | PAWS | 2.76 | No | 0m | W | K |
| Durley Copse | 1779 | ASNW | 4.06 | No | 171m | E | K |
| Durley Copse | 1780 | ASNW | 1.80 | No | 91m | NE | K |
| Unnamed | 1488935 | ASNW | 2.78 | No | 604m | NE | N |
| Stoke Park Wood | 1488802 | PAWS | 73.73 | No | 991m | N | L |
| Stoke Park Wood | 1488449 | ASNW | 0.86 | No | 1471m | N | L |
| Stoke Park Wood | 1488452 | ASNW | 1.95 | No | 989m | NE | L |
| Park Hill's Wood | 2968 | ASNW | 26.3 | No | 111m | N | L |

| Ancient Woodland Inventory site | ID | Designation | Size (ha) | Within the Order Limits | Distance from the Order Limits | Direction of the Order Limits from the site | Nearest section |
|---------------------------------|---------|----------------------------------------------------|-----------|-------------------------|--------------------------------|---------------------------------------------|-----------------|
| Lord's Wood | 2655 | ASNW | 0.42 | No | 215m | N | L |
| Lord's Wood | 2658 | ASNW | 0.23 | No | 12m | N | L |
| Lord's Wood | 2656 | ASNW | 0.19 | No | 23m | NE | L |
| Unnamed | 0319 | ASNW | 0.87 | No | 0m | S and W | L |
| Stratton's Copse | 1490813 | ASNW | 1.79 | No | 942m | SW | L |
| Lord's Wood | 2657 | ASNW | 1.57 | No | 55m | NE | L |
| Colden Common Wood | 1565 | ASNW | 7.01 | No | 346m | S | L |
| Hill Copse | 2316 | ASNW | 4.03 | No | 17m | N | L |
| Fisher's Pond Wood | 1896 | ASNW | 0.24 | No | 221m | S | L |
| Blacknell's Copse | 1490902 | ASNW | 1.82 | No | 892m | W | L |
| Deeps Copse, Deeps Bushes Copse | 1490849 | ASNW | 13.21 | No | 386m | S | L |
| Taylor's Copse | 1490898 | ASNW | 3.95 | No | 1082m | S | L |
| Golding Common | 1991 | Infilled Ancient Wood Pasture and Parkland (IAWPP) | 3.46 | No | 313m | S | L |
| Stoke Park Wood | 3477 | ASNW | 1.59 | No | 479m | N | L |
| Pitmore Copse | 1488025 | ASNW | 3.71 | No | 635m | SW | M |
| Castle/Woodend Copses | 1488208 | ASNW | 11.71 | No | 999m | W | M |
| Freemantles/ Great Moorlands | 1488462 | ASNW | 36.91 | No | 811m | W | M |
| Unnamed | 1488547 | ASNW | 0.91 | No | 674m | W | M |

| Ancient Woodland Inventory site | ID | Designation | Size (ha) | Within the Order Limits | Distance from the Order Limits | Direction of the Order Limits from the site | Nearest section |
|---------------------------------|---------|-------------|-----------|-------------------------|--------------------------------|---------------------------------------------|-----------------|
| Unnamed | 1489079 | ASNW | 1.26 | No | 762m | W | M |
| Unnamed | 1489875 | ASNW | 3.53 | No | 972m | SW | M |
| Sparrowgrove Copse | 1490896 | ASNW | 0.12 | No | 68m | W | M |
| Otterbourne Park Wood | 2946 | ASNW | 29.83 | No | 14m | E | M |
| Oakwood Copse | 2931 | ASNW | 3.65 | No | 12m | E | M |
| Sparrowgrove Copse | 3410 | ASNW | 5.09 | No | 1m | S | M |
| Dell Copse | 1682 | ASNW | 0.90 | No | 163m | SE | M |
| Lincolns Copse | 1489271 | ASNW | 2.75 | No | 647m | NE | M |

A.1.2 Table A-2 below summarises the relevant ancient and/or veteran trees within the desk study area. This excludes those within 200m of Havant Thicket Reservoir, the pipelines being delivered by Portsmouth Water between Bedhampton Springs and Havant Thicket Reservoir (Portsmouth Waters pipelines) and the tunnel to Eastney LSO.

Table A-2 Ancient, veteran and notable trees within the desk study area

| Tree ID | Common name | Latin name | Status (ancient, veteran or notable) | Within the Order Limits (Yes and No) | Distance from the Order Limits | Direction of the Order Limits from the site | Nearest section |
|-----------|-------------|----------------------|--------------------------------------|--------------------------------------|--------------------------------|---------------------------------------------|-----------------|
| 32630/T70 | Oak | <i>Quercus sp.</i> | Ancient tree | Yes | 0m | N/A | L |
| 14969 | Yew | <i>Taxus baccata</i> | Ancient tree | No | 178m | SE | B |

Annex B Field survey

B.1 Hedgerow surveys

- B.1.1 A schedule of hedgerows, including the results of the UKHab surveys and Hedgerows Regulations surveys is found in Table B-1. The table provides pipeline crossing IDs; tunnel and trenchless crossings are identified, with other hedgerows crossing the proposed open cut pipeline. It also states where a UKHab survey was not possible and the UKHab classification has been assumed to inform the Biodiversity Net Gain (BNG) assessment and where hedgerows were not surveyed under the Hedgerows Regulations and are therefore assumed 'important'.
- B.1.2 Table B-3 to Table B-12 summarise the results of the Hedgerows Regulations surveys within each component and section. Key woody species mentioned in column three include black poplar *Populus nigra*, large-leaved lime *Tilia platyphyllos*, small-leaved lime *Tilia cordata*, and wild service-tree *Sorbus torminalis*. There are 57 'important' hedgerows, 44 of which fall within the Order Limits.
- B.1.3 There were 56 hedgerows between the Water Recycling Plant (WRP) site and Otterbourne Water Supply Works (WSW) that are within the Order Limits and have not been subject to a Hedgerows Regulations survey so are classified as assumed 'important'; the remaining hedgerows that were not surveyed are outside the Order Limits.

B.2 National Vegetation Classification

- B.2.1 The National Vegetation Classification (NVC) survey results are provided in Table B-13 to Table B-66. NVC data for site 2 was provided by Portsmouth Water and as such, there is no table included for this site.

Table B-1 Schedule of hedgerows

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|---------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H3 | Order Limits | N/A | Pipelines between Budds Farm Water Treatment Works (WTW) and the WRP site | h2a5, 11, 111 | Important |
| H4 | Order Limits | N/A | Pipelines between the WRP site and Bedhampton Springs | h2a | Assumed Important |
| H6 | 50m buffer | N/A | Pipelines between the WRP site and Bedhampton Springs | h2a | Assumed Important |
| H7 | Order Limits | HX_D_003 (tunnel) | Pipeline between the WRP site and Otterbourne WSW, Section D | h2a5 (assumed) | Assumed Important |
| H8 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section D | h2a5 (assumed) | Assumed Important |
| H9 | Order Limits | HX_D_004 (tunnel) | Pipeline between the WRP site and Otterbourne WSW, Section D | h2a5 (assumed) | Assumed Important |
| H10 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section D | h2a | Assumed Important |
| H11 | Order Limits | HX_D_007 (tunnel) | Pipeline between the WRP site and Otterbourne WSW, Section D | h2a5 | No |
| H12 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H13 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H14 | Order Limits | HX_D_008 (tunnel) | Pipeline between the WRP site and Otterbourne WSW, Section D and E | h2a5 | No |

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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|-------------------------------|--------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H15 | Order Limits | HX_D_009, HX_E_002 & HX_E_013 | Pipeline between the WRP site and Otterbourne WSW, Section D and E | h2a5 | No |
| H16 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5, 11 | Important |
| H17 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H18 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H19 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5 (assumed) | Assumed Important |
| H20 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H21 | Order Limits | HX_E_020 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H22 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H23 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H24 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a, 11 | No |
| H25 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5 | No |
| H26 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H28 | Order Limits | HX_E_021 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |

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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H29 | Order Limits | HX_E_023 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H30 | Order Limits | HX_E_024 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H31 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5 (assumed) | Assumed Important |
| H32 | Order Limits | HX_E_025 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H33 | Order Limits | HX_E_026 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H34 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5 | Assumed Important |
| H35 | Order Limits | HX_E_027 & HX_E_028 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H36 | Order Limits | HX_E_031 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5, 11 | Important |
| H37 | Order Limits | HX_E_034 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5, 11 | Important |
| H38 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H39 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H40 | Order Limits | HX_E_035 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H41 | Order Limits | HX_E_036 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |

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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|-----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H42 | Order Limits | HX_E_037 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Important |
| H43 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | No |
| H44 | Order Limits | HX_E_038 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a | Assumed Important |
| H45 | Order Limits | HX_E_039 | Pipeline between the WRP site and Otterbourne WSW, Section E | h2a5 | No |
| H46 | Order Limits | HX_F_008 (trenchless) | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a | Assumed Important |
| H48 | Order Limits | HX_F_006 | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a | No |
| H49 | Order Limits | HX_F_007 | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a | No |
| H50 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a5, 11 | Important |
| H51 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a5, 11 | Important |
| H52 | Order Limits | HX_G_008 | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a, 11 | Important |
| H53 | Order Limits | HX_G_007 | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a5 | Important |
| H54 | Order Limits | HX_F_005 | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a, 11 | No |
| H55 | Order Limits | HX_G_009 | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a | No |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H56 | Order Limits | HX_F_001 | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a5 (assumed) | Assumed Important |
| H57 | Order Limits | HX_F_002 | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a5, 11 | Important |
| H58 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a | Assumed Important |
| H59 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a | No |
| H60 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a5 (assumed) | Assumed Important |
| H61 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a5, 11 | Important |
| H62 | Order Limits | HX_F_003 | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a, 11 | No |
| H63 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a | No |
| H64 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a, 11 | No |
| H65 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a, 11 | No |
| H66 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a, 11 | Assumed Important |
| H67 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a5, 11 (assumed) | Assumed Important |
| H68 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section F | h2a5, 11 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H69 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a, 11 | Important |
| H70 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a5 | No |
| H71 | Order Limits | HX_G_003 | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a | No |
| H72 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5 (assumed) | Assumed Important |
| H73 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a (assumed) | Assumed Important |
| H74 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b, 11 | Assumed Important |
| H75 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5, 11 | Important |
| H76 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | Assumed Important |
| H77 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H78 | Order Limits | HX_H_015 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5, 11 | Important |
| H79 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | Assumed Important |
| H80 | Order Limits | HX_H_011 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H81 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H82 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a, 11 | No |
| H83 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | Assumed Important |
| H84 | Order Limits | HX_H_009 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H85 | Order Limits | HX_H_010 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H86 | Order Limits | HX_H_013 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5, 11 | Important |
| H87 | Order Limits | HX_H_007 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | Assumed Important |
| H88 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5 (assumed) | Assumed Important |
| H89 | Order Limits | HX_H_008 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5, 11 | Important |
| H90 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | No |
| H91 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | Assumed Important |
| H92 | Order Limits | HX_H_012 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5, 11 | Important |
| H93 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | No |
| H94 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H95 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5 (assumed) | Assumed Important |
| H96 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | Assumed Important |
| H97 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | Assumed Important |
| H99 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H100 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5 (assumed) | Assumed Important |
| H101 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | No |
| H102 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | Assumed Important |
| H103 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H104 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5, 11 | Important |
| H105 | Order Limits | HX_H_006 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | Important |
| H106 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a, 11 | Important |
| H107 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H108 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|-----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H110 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a5, 11 (assumed) | Assumed Important |
| H111 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a (assumed) | Assumed Important |
| H112 | Order Limits | HX_H_002 | Pipeline between the WRP site and Otterbourne WSW, Section H | h2a | No |
| H113 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section H | h2b | No |
| H114 | Order Limits | HX_G_004 (trenchless) | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a5, 11 | No |
| H115 | Order Limits | HX_G_005 | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a5, 11 | Important |
| H116 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a5, 11 | Important |
| H117 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2b | No |
| H118 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a (assumed) | Assumed Important |
| H119 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2b | Assumed Important |
| H120 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a5, 11 | Important |
| H121 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 | No |
| H122 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2a | No |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H123 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section G | h2b | No |
| H124 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5, 11 | Important |
| H125 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a, 11 | No |
| H126 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a, 11 | No |
| H127 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a | No |
| H128 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a | Important |
| H129 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 (assumed) | Assumed Important |
| H130 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2b | Assumed Important |
| H131 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a | No |
| H132 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 (assumed) | Assumed Important |
| H133 | Order Limits | HX_J_001 | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 | Important |
| H134 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5, 11 (assumed) | Assumed Important |
| H136 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H137 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 | No |
| H138 | Order Limits | HX_J_002 | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 (assumed) | Assumed Important |
| H139 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a | Assumed Important |
| H140 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a, 11 | No |
| H141 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a | Assumed Important |
| H142 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2b | Assumed Important |
| H143 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5, 11 (assumed) | Assumed Important |
| H144 | Order Limits | HX_J_007 | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5, 11 | No |
| H145 | Order Limits | HX_J_008 | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5, 11 | No |
| H146 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2b | Assumed Important |
| H147 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2b | Assumed Important |
| H148 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H149 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H150 | Order Limits | HX_K_012 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H151 | Order Limits | HX_K_011 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H152 | Order Limits | HX_K_010 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 | Assumed Important |
| H153 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H154 | Order Limits | HX_K_008 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H155 | Order Limits | HX_K_009 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H156 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a (assumed) | Assumed Important |
| H157 | Order Limits | HX_K_001 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H158 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H159 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 | Assumed Important |
| H160 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H161 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H162 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|-----------------------|----------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H163 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 | Assumed Important |
| H164 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 | Assumed Important |
| H165 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H166 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 (assumed) | Assumed Important |
| H167 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H168 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H169 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a (assumed) | Assumed Important |
| H170 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H171 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Important |
| H172 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K A | h2a5, 11 | Important |
| H173 | Order Limits | HX_K_006 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |
| H174 | Order Limits | HX_K_007 (trenchless) | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 | Important |
| H175 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H176 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H177 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a, 11 | Assumed Important |
| H178 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 | Important |
| H179 | Order Limits | HX_K_027 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 | No |
| H180 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 | Assumed Important |
| H181 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2b | Assumed Important |
| H182 | Order Limits | HX_K_026 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 (assumed) | Assumed Important |
| H183 | Order Limits | HX_K_025 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 | Important |
| H184 | Order Limits | HX_K_024 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 | Important |
| H185 | Order Limits | HX_K_023 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 | No |
| H186 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a (assumed) | Assumed Important |
| H193 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 | Assumed Important |
| H194 | Order Limits | HX_K_020 & HX_K_021 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5, 11 | Important |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H195 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |
| H196 | Order Limits | HX_K_019 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Important |
| H197 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H198 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H199 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a, 11 | Assumed Important |
| H200 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H201 | Order Limits | HX_K_018 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a, 11 | No |
| H202 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H203 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |
| H204 | Order Limits | HX_K_017 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 | Important |
| H205 | Order Limits | HX_K_016 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a, 11 | Important |
| H206 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |
| H207 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H208 | Order Limits | HX_K_015 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2b | Assumed Important |
| H209 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a, 11 | No |
| H210 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | No |
| H211 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H212 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H213 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H214 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a5 (assumed) | Assumed Important |
| H215 | Order Limits | HX_K_014 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H216 | Order Limits | HX_K_013 | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H217 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | Assumed Important |
| H219 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5, 11 | No |
| H220 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H221 | Order Limits | HX_L_010 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H222 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H223 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H224 | Order Limits | HX_L_009 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H225 | Order Limits | HX_L_006 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H226 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | No |
| H227 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H228 | Order Limits | HX_L_005 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | Important |
| H229 | Order Limits | HX_L_004 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | No |
| H230 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | Important |
| H231 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H232 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H233 | Order Limits | HX_L_002 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H234 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H237 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a6 (assumed) | Assumed Important |
| H241 | Order Limits | HX_L_015 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5, 11 | Important |
| H242 | Order Limits | HX_L_016 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H243 | Order Limits | HX_L_017 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5, 11 | Important |
| H244 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H245 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H246 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 | Important |
| H247 | Order Limits | HX_L_021 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | No |
| H248 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H249 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5, 11 (assumed) | Assumed Important |
| H250 | Order Limits | HX_L_022 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5, 11 | Important |
| H251 | Order Limits | HX_L_024 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | Important |
| H252 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | Important |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H253 | Order Limits | HX_L_027 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | No |
| H254 | Order Limits | HX_L_029 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | Important |
| H255 | Order Limits | HX_L_028 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 | Important |
| H256 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H257 | Order Limits | HX_L_031N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | Important |
| H258 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H259 | Order Limits | HX_L_030 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H260 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 (assumed) | Assumed Important |
| H261 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | Assumed Important |
| H262 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | Important |
| H263 | Order Limits | HX_L_032 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5, 11 | Important |
| H264 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H265 | Order Limits | HX_L_034 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | No |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|-----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H266 | Order Limits | HX_L_033 | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5, 11 | Important |
| H267 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | No |
| H268 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a | No |
| H269 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a6 | No |
| H270 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | No |
| H271 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a5 (assumed) | Assumed Important |
| H272 | Order Limits | HX_L_013 (trenchless) | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a, 11 | Important |
| H273 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a5 (assumed) | Assumed Important |
| H274 | Order Limits | HX_M_001 | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a | No |
| H275 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a | Assumed Important |
| H276 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a | No |
| H277 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a5 | Important |
| H278 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a5, 11 (assumed) | Assumed Important |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|-----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H279 | Order Limits | HX_M_010 (trenchless) | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a, 11 | No |
| H280 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a | Assumed Important |
| H281 | Order Limits | HX_M_004 | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a5, 11 | Important |
| H282 | Order Limits | HX_M_007 | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a5, 11 | Important |
| H283 | Order Limits | HX_M_009 (trenchless) | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a, 11 | Assumed Important |
| H284 | Order Limits | HX_M_008 | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a5, 11 | Important |
| H285 | Order Limits | HX_M_006 | Pipeline between the WRP site and Otterbourne WSW, Section M | h2a5 | Important |
| H286 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a | Assumed Important |
| H287 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 | Assumed Important |
| H288 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a | Important |
| H289 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne WSW, Section J | h2a5 | Assumed Important |
| H290 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section L | h2b | Assumed Important |
| H291 | Order Limits | HX_L_049 (trenchless) | Pipeline between the WRP site and Otterbourne WSW, Section L | h2a6 | No |

Hampshire Water Transfer and Water Recycling Project
Environmental Statement – Appendix 8.2 Habitats

| Hedgerow ID | Within the Order Limits or 50m buffer | Pipeline Crossing ID | Component | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 |
|-------------|---------------------------------------|----------------------|--------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|
| H292 | 50m buffer | N/A | Pipeline between the WRP site and Otterbourne WSW, Section K | h2a | Assumed Important |
| H293 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne, Section M | h2a | No |
| H294 | Order Limits | N/A | Pipeline between the WRP site and Otterbourne, Section K | h2a | Assumed Important |

Table B-2 Schedule of Important hedgerows

| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------|----------------------|----------------------------|
| H3 | h2a5, 11, 111 | Important | Order Limits | Pipelines between Budds Farm Water Treatment Works (WTW) and the WRP site | N/A | No |
| H4 | h2a | Assumed Important | Order Limits | Pipelines between the WRP site and Bedhampton Springs | N/A | No |
| H7 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section D | HX_D_003 (tunnel) | No |
| H9 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section D | HX_D_004 (tunnel) | No |
| H10 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section D | N/A | No |
| H12 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | N/A | No |

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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|-----------------------|----------------------------|
| H16 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | N/A | No |
| H19 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | N/A | No |
| H20 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | N/A | Yes |
| H29 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | HX_E_023 | Yes |
| H31 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | N/A | Yes |
| H34 | h2a5 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | N/A | No |
| H36 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | HX_E_031 | Yes |
| H37 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | HX_E_034 | Yes |
| H42 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | HX_E_037 | Yes |
| H44 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section E | HX_E_038 | Yes |
| H46 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section F | HX_F_008 (trenchless) | No |
| H52 | h2a, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section G | HX_G_008 | Yes |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|----------------------|----------------------------|
| H53 | h2a5 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section G | HX_G_007 | Yes |
| H56 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section F | HX_F_001 | Yes |
| H57 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section F | HX_F_002 | Yes |
| H61 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section F | N/A | No |
| H66 | h2a, 11 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section F | N/A | No |
| H69 | h2a, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section G | N/A | No |
| H78 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | HX_H_015 | Yes |
| H86 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | HX_H_013 | Yes |
| H87 | h2b | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | HX_H_007 | Yes |
| H89 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | HX_H_008 | Yes |
| H91 | h2b | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | N/A | No |
| H92 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | HX_H_012 | Yes |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|----------------------|----------------------------|
| H102 | h2b | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | N/A | No |
| H105 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | HX_H_006 | Yes |
| H106 | h2a, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section G | N/A | No |
| H108 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | N/A | No |
| H109 | h2a, 11 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section H | N/A | No |
| H115 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section G | HX_G_005 | Yes |
| H116 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section G | N/A | No |
| H133 | h2a5 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section J | HX_J_001 | Yes |
| H138 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section J | HX_J_002 | Yes |
| H139 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section J | N/A | No |
| H141 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section J | N/A | No |
| H143 | h2a5, 11 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section J | N/A | No |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|----------------------|----------------------------|
| H148 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H149 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H150 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_012 | Yes |
| H151 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_011 | Yes |
| H152 | h2a5 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_010 | Yes |
| H154 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_008 | Yes |
| H155 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_009 | Yes |
| H157 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_001 | Yes |
| H161 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H163 | h2a5 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H165 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H166 | h2a5, 11 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |

Hampshire Water Transfer and Water Recycling Project
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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|-----------------------|----------------------------|
| H167 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H170 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H171 | h2a, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H174 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_007 (trenchless) | No |
| H176 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | Yes |
| H180 | h2a5, 11 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | Yes |
| H182 | h2a5, 11 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_026 | Yes |
| H183 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_025 | Yes |
| H184 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_024 | Yes |
| H194 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_020 & HX_K_021 | Yes |
| H196 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_019 | Yes |
| H204 | h2a5 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_017 | Yes |

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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|-----------------------|----------------------------|
| H205 | h2a, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_016 | Yes |
| H208 | h2b | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_015 | Yes |
| H214 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |
| H215 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_014 | Yes |
| H216 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | HX_K_013 | Yes |
| H228 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_005 | Yes |
| H233 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_002 | No |
| H234 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | No |
| H236 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_001 (trenchless) | No |
| H237 | h2a6 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | No |
| H241 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_015 | Yes |
| H243 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_017 | Yes |

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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|----------------------|----------------------------|
| H244 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | No |
| H245 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | No |
| H246 | h2a5 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | Yes |
| H250 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_022 | No |
| H251 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_024 | No |
| H254 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_029 | Yes |
| H255 | h2a5 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_028 | Yes |
| H257 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_031N/A | Yes |
| H258 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | Yes |
| H261 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | No |
| H263 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_032 | Yes |
| H266 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_033 | Yes |

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| Hedgerow ID | UKHab classification | Important hedgerow under the “Wildlife and Landscape Criteria” under the Hedgerows Regulations 1997 | Location | Component | Pipeline Crossing ID | Subject to partial removal |
|-------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|-----------------------|----------------------------|
| H271 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | N/A | No |
| H272 | h2a, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section L | HX_L_013 (trenchless) | No |
| H273 | h2a5 (assumed) | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section M | N/A | No |
| H280 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section M | N/A | No |
| H281 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section M | HX_M_004 | Yes |
| H282 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section M | HX_M_007 | Yes |
| H283 | h2a, 11 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section M | HX_M_009 (trenchless) | No |
| H284 | h2a5, 11 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section M | HX_M_008 | Yes |
| H285 | h2a5 | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section M | HX_M_006 | Yes |
| H288 | h2a | Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section J | N/A | No |
| H289 | h2a5 | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section J | N/A | Yes |
| H294 | h2a | Assumed Important | Order Limits | Pipeline between the WRP site and Otterbourne WSW, Section K | N/A | No |

Table B-3 Hedgerow Regulations survey results for the Pipelines between Budds Farm Water Treatment Works and the Water Recycling Plant site component

| ID | Woody species within section (S) | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a public right of way (PRoW) | Important hedgerow |
|----|----------------------------------|----|----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|------------------------------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H3 | 4 | 3 | 3 | None | Yes | Yes | Yes | N/A | No | No | No | Yes | Yes |

Table B-4 Hedgerow Regulations survey results for the pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Water Recycling Plant site to Portsdown Hill (Section D)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRoW | Important hedgerow |
|-----|---------------|----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H11 | 6 | 5 | N/A | None | No | Yes | No | 1 | No | No | No | No | No |
| H15 | 5 | 5 | N/A | None | Yes | Yes | No | None | No | No | No | Yes | No |

Table B-5 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Portsdown Hill to Boarhunt (Section E)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRoW | Important hedgerow |
|-----|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H16 | 8 | 6 | 7 | None | Yes | Yes | Yes | None | No | No | No | No | Yes |
| H17 | 3 | N/A | N/A | None | No | Yes | No | None | No | No | No | Yes | No |
| H21 | 3 | N/A | N/A | None | Yes | No | No | None | No | No | No | Yes | No |
| H24 | 3 | N/A | N/A | None | Yes | Yes | Yes | None | No | No | No | Yes | No |
| H25 | 4 | 5 | 4 | None | No | Yes | No | 3 | No | No | No | Yes | No |
| H28 | 2 | 2 | N/A | None | No | Yes | No | None | No | No | Yes | Yes | No |

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| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|-----|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H30 | 3 | 2 | 3 | None | No | Yes | No | None | No | No | Yes | Yes | No |
| H32 | 4 | N/A | N/A | None | No | No | No | None | No | No | No | No | No |
| H33 | 3 | 4 | 2 | None | No | Yes | No | 2 | No | No | Yes | Yes | No |
| H35 | 4 | 5 | 2 | None | Yes | Yes | Yes | None | No | No | Yes | Yes | No |
| H36 | 4 | 5 | 5 | None | No | Yes | Yes | None | Yes | No | Yes | Yes | Yes |
| H37 | 5 | 6 | N/A | None | Yes | No | Yes | 1 | Yes | No | Yes | Yes | Yes |
| H38 | 4 | 5 | 4 | None | No | No | No | None | No | No | No | No | No |
| H40 | 2 | 2 | N/A | None | Yes | No | No | None | No | No | Yes | No | No |
| H41 | 2 | 2 | N/A | None | Yes | No | No | None | No | No | Yes | Yes | No |
| H42 | 4 | 5 | N/A | None | Yes | Yes | No | 2 | No | No | Yes | Yes | Yes |
| H43 | 3 | 3 | 4 | None | No | Yes | No | 2 | No | No | No | No | No |

Table B-6 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Boarhunt to Crockerhill (Section F)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|-----|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H48 | 1 | N/A | N/A | None | No | Yes | No | None | No | No | No | Yes | No |
| H49 | 3 | N/A | N/A | None | No | Yes | No | 2 | No | No | No | No | No |
| H51 | 4 | 5 | 4 | None | No | Yes | Yes | None | No | No | Yes | No | yes |
| H54 | 5 | 5 | N/A | None | No | Yes | Yes | None | No | No | No | No | No |
| H57 | 9 | 9 | 8 | None | Yes | Yes | Yes | 1 | No | No | Yes | Yes | Yes |
| H59 | 4 | 4 | 3 | None | Yes | Yes | No | None | No | No | Yes | Yes | No |
| H61 | 5 | 7 | 4 | None | No | Yes | Yes | None | No | No | Yes | Yes | Yes |

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| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|-----|---------------|----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H62 | 5 | 4 | N/A | None | No | Yes | Yes | None | No | No | No | No | No |
| H63 | 2 | 1 | 1 | None | No | Yes | No | 1 | No | No | No | No | No |
| H64 | 3 | 4 | 5 | Small leaved lime | No | Yes | Yes | None | No | No | No | No | No |
| H65 | 3 | 4 | 4 | None | No | Yes | Yes | None | No | No | Yes | Yes | No |

Table B-7 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Crockerhill to Wickham (Section G)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H50 | 8 | 7 | N/A | None | Yes | Yes | Yes | 4 | No | Yes | Yes | Yes | Yes |
| H52 | 4 | N/A | N/A | None | Yes | Yes | Yes | 3 | No | No | Yes | Yes | Yes |
| H53 | 7 | N/A | N/A | None | Yes | Yes | No | 1 | Yes | No | Yes | Yes | Yes |
| H55 | 3 | N/A | N/A | None | Yes | Yes | No | None | No | No | No | No | No |
| H69 | 4 | 5 | N/A | None | Yes | Yes | Yes | 3 | Yes | Yes | No | Yes | Yes |
| H70 | 6 | 5 | 2 | None | No | Yes | No | None | No | Yes | No | Yes | No |
| H71 | 3 | 3 | 3 | None | No | Yes | No | None | No | No | No | No | No |
| H101 | 1 | N/A | N/A | None | No | None | No | None | No | No | No | No | No |
| H106 | 5 | 3 | 5 | None | Yes | No | Yes | None | No | No | Yes | Yes | Yes |
| H114 | 6 | N/A | N/A | None | No | Yes | Yes | 2 | Yes | No | No | No | No |
| H115 | 5 | 5 | 7 | None | No | Yes | Yes | 4 | Yes | Yes | No | Yes | Yes |
| H116 | 7 | 6 | N/A | None | No | Yes | Yes | 1 | Yes | No | No | No | Yes |
| H120 | 5 | 5 | 4 | None | Yes | Yes | Yes | 1 | No | No | No | Yes | Yes |
| H122 | 3 | N/A | N/A | None | Yes | Yes | No | None | No | No | No | Yes | No |

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| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H123 | 1 | 2 | N/A | None | No | None | No | None | No | No | No | No | No |

Table B-8 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Wickham to Shedfield (Section H)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H75 | 6 | 3 | N/A | None | No | Yes | Yes | 2 | Yes | No | Yes | No | Yes |
| H77 | 3 | 4 | N/A | None | Yes | Yes | Yes | None | No | No | No | No | No |
| H78 | 5 | 7 | N/A | None | No | Yes | Yes | None | No | No | Yes | Yes | Yes |
| H80 | 3 | 2 | N/A | None | Yes | Yes | Yes | 1 | No | No | Yes | Yes | No |
| H82 | 4 | N/A | N/A | None | Yes | Yes | Yes | 1 | Yes | No | No | No | Yes |
| H84 | 3 | 2 | N/A | None | No | Yes | No | None | Yes | No | Yes | No | No |
| H85 | 4 | 4 | N/A | None | No | No | No | None | No | No | Yes | No | No |
| H86 | 7 | 7 | 7 | None | No | Yes | Yes | 4 | No | No | No | Yes | Yes |
| H89 | 6 | 4 | 6 | None | No | Yes | Yes | 4 | Yes | No | No | No | Yes |
| H90 | 1 | N/A | N/A | None | No | Yes | No | None | No | No | No | Yes | No |
| H92 | 6 | 6 | 5 | None | Yes | Yes | Yes | 5 | No | No | No | No | Yes |
| H93 | 1 | N/A | N/A | None | No | Yes | No | None | No | No | No | Yes | No |
| H98 | 1 | 1 | 1 | None | No | Yes | Yes | None | No | No | No | No | No |
| H99 | 3 | 4 | 4 | None | No | Yes | No | 1 | No | No | No | No | No |
| H103 | 2 | N/A | N/A | None | No | Yes | No | None | No | No | No | No | No |
| H104 | 6 | 4 | 3 | None | Yes | Yes | Yes | 3 | No | Yes | Yes | No | Yes |
| H105 | 4 | N/A | N/A | None | No | Yes | No | None | No | No | Yes | Yes | Yes |
| H107 | 2 | N/A | N/A | None | No | Yes | No | None | No | No | No | Yes | No |

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| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H112 | 3 | N/A | N/A | None | Yes | Yes | Yes | None | No | No | No | No | No |
| H113 | 2 | N/A | N/A | None | No | Yes | No | None | No | No | No | No | No |

Table B-9 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Shedfield to the River Hamble (Section J)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H117 | 1 | 3 | N/A | None | No | Yes | Yes | 0 | No | No | No | Yes | No |
| H121 | 6 | N/A | N/A | None | No | No | No | 1 | No | No | No | No | No |
| H124 | 6 | N/A | N/A | None | No | Yes | Yes | 3 | Yes | No | No | Yes | Yes |
| H125 | 3 | N/A | N/A | None | No | Yes | No | 2 | No | No | No | No | No |
| H126 | 3 | N/A | N/A | None | Yes | No | No | 7 | No | No | No | Yes | No |
| H127 | 3 | N/A | N/A | None | No | Yes | No | None | Yes | Yes | No | No | No |
| H128 | 4 | 5 | N/A | None | Yes | Yes | No | 2 | No | No | No | Yes | Yes |
| H131 | 4 | N/A | N/A | None | No | Yes | No | 1 | No | No | No | No | No |
| H133 | 5 | N/A | N/A | None | Yes | Yes | No | None | No | No | Yes | Yes | Yes |
| H135 | 4 | 5 | N/A | None | Yes | Yes | Yes | None | No | No | No | No | No |
| H137 | 4 | 5 | N/A | None | No | No | No | 1 | No | Yes | Yes | No | No |
| H140 | 3 | 4 | 2 | None | Yes | Yes | Yes | 3 | Yes | No | No | No | No |
| H144 | 5 | N/A | N/A | None | No | No | Yes | 7 | No | No | No | No | No |
| H145 | 6 | 5 | 3 | None | No | No | Yes | 3 | Yes | Yes | No | No | No |
| H288 | 5 | N/A | N/A | None | No | No | Yes | 8 | Yes | No | No | No | Yes |

Table B-10 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, the River Hamble to Lower Upham (Section K)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H162 | 2 | 3 | 3 | None | No | Yes | No | 2 | Yes | No | No | No | No |
| H171 | 4 | N/A | N/A | None | Yes | Yes | Yes | None | No | No | Yes | Yes | Yes |
| H172 | 5 | N/A | N/A | None | No | Yes | Yes | 1 | Yes | Yes | No | No | Yes |
| H173 | 4 | N/A | N/A | None | No | Yes | No | None | No | Yes | No | No | No |
| H174 | 7 | 4 | 5 | None | No | Yes | Yes | 1 | Yes | Yes | No | Yes | Yes |
| H175 | 2 | 3 | 3 | None | No | Yes | No | 2 | No | No | Yes | Yes | No |
| H178 | 5 | N/A | N/A | None | No | Yes | Yes | None | Yes | Yes | No | No | Yes |
| H179 | 5 | 4 | 5 | None | No | Yes | Yes | 4 | No | No | Yes | No | No |
| H183 | 6 | 5 | 4 | None | Yes | Yes | Yes | None | No | Yes | No | No | Yes |
| H184 | 5 | N/A | N/A | None | No | Yes | Yes | None | Yes | Yes | No | No | Yes |
| H185 | 4 | 5 | N/A | None | No | Yes | Yes | None | No | No | No | No | No |
| H192 | 3 | 3 | N/A | None | No | No | Yes | None | No | No | No | No | No |
| H194 | 4 | 5 | N/A | None | No | Yes | Yes | None | Yes | Yes | Yes | Yes | Yes |
| H195 | 4 | 3 | N/A | None | No | Yes | Yes | None | Yes | Yes | No | No | No |
| H196 | 4 | 5 | 5 | None | No | Yes | No | None | No | No | Yes | Yes | Yes |
| H201 | 3 | 3 | N/A | None | Yes | No | Yes | None | Yes | No | No | No | No |
| H203 | 1 | N/A | N/A | None | No | Yes | No | None | No | No | No | No | No |
| H204 | 6 | 6 | 6 | None | No | Yes | No | 3 | No | No | Yes | Yes | Yes |
| H205 | 5 | N/A | N/A | None | No | Yes | Yes | 1 | No | No | Yes | Yes | Yes |
| H206 | 3 | N/A | N/A | None | No | Yes | No | None | No | Yes | Yes | No | No |
| H207 | 1 | 2 | 1 | None | No | Yes | No | None | No | No | No | No | No |
| H209 | 3 | 3 | 4 | None | No | Yes | No | 2 | Yes | No | Yes | Yes | No |
| H210 | 1 | N/A | N/A | None | No | Yes | No | None | No | No | No | No | No |

Table B-11 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Lower Upham to Brambridge (Section L)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRoW | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H253 | 4 | 3 | 3 | None | No | Yes | No | None | Yes | Yes | No | No | No |
| H269 | 2 | 3 | N/A | None | No | No | No | None | No | No | No | No | No |
| H270 | 4 | 3 | N/A | None | No | Yes | Yes | None | No | Yes | No | No | No |
| H248 | 1 | 1 | 3 | None | No | Yes | Yes | 1 | No | No | Yes | Yes | No |
| H229 | 4 | 2 | N/A | None | No | Yes | No | None | No | No | Yes | Yes | No |
| H262 | 3 | N/A | N/A | None | No | Yes | Yes | None | No | Yes | No | No | Yes |
| H230 | 5 | N/A | N/A | None | Yes | Yes | Yes | None | Yes | No | Yes | Yes | Yes |
| H252 | 4 | N/A | N/A | None | Yes | Yes | Yes | None | No | No | Yes | Yes | Yes |
| H227 | 2 | 3 | 2 | None | No | Yes | Yes | None | No | Yes | No | No | No |
| H251 | 4 | 4 | N/A | None | Yes | Yes | No | None | No | Yes | Yes | Yes | Yes |
| H218 | 1 | N/A | N/A | None | No | No | No | None | No | No | No | No | No |
| H228 | 4 | 4 | N/A | None | No | Yes | No | None | Yes | No | Yes | Yes | Yes |
| H254 | 3 | 4 | 3 | None | No | Yes | Yes | None | Yes | Yes | No | Yes | Yes |
| H242 | 4 | 4 | 4 | None | Yes | Yes | Yes | 3 | Yes | Yes | No | No | No |
| H222 | 3 | 3 | 3 | None | Yes | Yes | Yes | 2 | Yes | No | Yes | Yes | No |
| H272 | 5 | 4 | N/A | None | Yes | No | Yes | 1 | No | No | No | Yes | Yes |
| H257 | 4 | 4 | 3 | None | Yes | Yes | No | 3 | No | Yes | No | Yes | Yes |
| H221 | 4 | N/A | N/A | None | No | Yes | Yes | None | No | Yes | No | No | No |
| H268 | 1 | N/A | N/A | None | Yes | Yes | No | None | Yes | No | Yes | Yes | No |
| H267 | 3 | N/A | N/A | None | No | Yes | Yes | None | No | No | No | No | No |
| H226 | 2 | 3 | 2 | None | No | Yes | Yes | None | No | Yes | No | Yes | No |

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| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H264 | 3 | 4 | 4 | None | Yes | Yes | Yes | 1 | Yes | Yes | No | No | No |
| H231 | 3 | 2 | N/A | None | Yes | Yes | Yes | 1 | Yes | Yes | No | No | No |
| H225 | 4 | 3 | N/A | None | Yes | Yes | No | 3 | Yes | Yes | Yes | No | No |
| H265 | 4 | 2 | 1 | None | Yes | Yes | No | 3 | No | No | Yes | Yes | No |
| H263 | 6 | 8 | N/A | None | No | Yes | Yes | None | No | Yes | No | No | Yes |
| H246 | 6 | 7 | N/A | None | No | Yes | No | 6 | No | Yes | No | No | Yes |
| H235 | 5 | 4 | N/A | None | No | Yes | Yes | 2 | No | No | No | No | No |
| H240 | 7 | 3 | 3 | None | Yes | Yes | Yes | 2 | Yes | Yes | No | No | No |
| H236 | 5 | 5 | N/A | Large-leaved lime | No | Yes | Yes | 1 | No | Yes | Yes | No | Yes |
| H241 | 6 | 5 | 3 | None | Yes | Yes | Yes | 2 | Yes | Yes | No | No | Yes |
| H266 | 5 | 5 | N/A | None | No | Yes | Yes | 3 | No | Yes | Yes | Yes | Yes |
| H250 | 5 | 8 | N/A | None | Yes | Yes | Yes | 4 | Yes | No | Yes | Yes | Yes |
| H255 | 3 | 5 | 4 | None | No | Yes | No | 2 | Yes | Yes | No | Yes | Yes |
| H219 | 5 | N/A | N/A | None | No | Yes | Yes | None | No | No | No | No | No |
| H243 | 6 | 4 | N/A | None | Yes | Yes | Yes | 2 | No | Yes | No | No | Yes |
| H224 | 2 | 2 | 4 | None | No | No | Yes | None | No | Yes | No | No | No |
| H247 | 2 | 2 | N/A | None | No | Yes | No | None | No | No | Yes | No | No |
| H259 | 3 | 3 | 4 | None | No | Yes | No | 2 | Yes | Yes | No | No | No |
| H291 | 2 | 4 | 4 | None | No | No | No | None | No | Yes | No | No | No |

Table B-12 Hedgerow Regulations survey results for the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Brambridge to Otterbourne WSW (Section M)

| ID | Woody species | | | Key woody species | Bank/wall | Intact hedge | Trees | Woodland species | Ditch | Four or more connections | Parallel hedgerow | Adjacent to a PRow | Important hedgerow |
|------|---------------|-----|-----|-------------------|-----------|--------------|-------|------------------|-------|--------------------------|-------------------|--------------------|--------------------|
| | S1 | S2 | S3 | | | | | | | | | | |
| H277 | 6 | N/A | N/A | None | No | Yes | No | None | No | No | No | No | Yes |
| H281 | 5 | 5 | N/A | None | No | Yes | Yes | 1 | No | No | Yes | No | Yes |
| H282 | 5 | 7 | 8 | None | No | Yes | Yes | 3 | Yes | No | No | Yes | Yes |
| H285 | 5 | 8 | 7 | None | Yes | Yes | No | 1 | Yes | Yes | No | No | Yes |
| H284 | 7 | 7 | 7 | None | No | Yes | Yes | 6 | Yes | No | No | No | Yes |
| H274 | 1 | N/A | N/A | None | No | No | No | None | No | No | No | No | No |
| H276 | 3 | 3 | 3 | None | No | No | Yes | None | No | No | No | No | No |
| H279 | 4 | 4 | 4 | None | No | Yes | Yes | 3 | Yes | Yes | No | No | No |

Table B-13 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 1 within the Water Recycling Plant site

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------------|----------------------------|--------------------------|--------------------------|------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Wild carrot | <i>Daucus carota</i> | 5 (11-25%) | 3 <4% (many individuals) | 4 (4-10%) | 5 (11-25%) | 7 (34-50%) | V | 3 - 7 | LC |
| Ribwort plantain | <i>Plantago lanceolata</i> | 4 (4-10%) | 5 (11-25%) | 5 (11-25%) | 3 <4% (many individuals) | 3 <4% (many individuals) | V | 3 - 5 | LC |
| Common birds foot trefoil | <i>Lotus corniculatus</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|----------------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Chalk knapweed | <i>Centaurea debeauxii</i> | | 3 <4% (many individuals) | 2 <4% (several individuals) | | | II | 2 - 3 | LC |
| Red clover | <i>Trifolium pratense</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Scentless mayweed | <i>Tripleurospermum inodorum</i> | | | | | 2 <4% (several individuals) | I | 2 - 2 | LC |
| Yarrow | <i>Achilla millifolium</i> | 3 <4% (many individuals) | 4 (4-10%) | 3 <4% (many individuals) | | | III | 3 - 4 | LC |
| White clover | <i>Trifolium repens</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Creeping thistle | <i>Cirsium arvense</i> | | | | 3 <4% (many individuals) | 4 (4-10%) | II | 3 - 4 | LC |
| Common knapweed | <i>Centaurea nigra</i> | 3 <4% (many individuals) | 4 (4-10%) | 4 (4-10%) | | | III | 1 - 1 | LC |
| Spear thistle | <i>Cirsium vulgare</i> | | | 3 <4% (many individuals) | 3 <4% (many individuals) | | II | 3 - 3 | LC |
| Teasel | <i>Dipsacus fullonum</i> | | | | | 1 <4% (few individuals) | I | 1 - 2 | LC |
| Dove's foot cranesbill | <i>Geranium molle</i> | 4 (4-10%) | | | | | I | 5 - 5 | LC |
| Field bindweed | <i>Convolvulus arvensis</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------------|---------------------------------|-----------------------------|--------------------------|-------------------------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Creeping cinquefoil | <i>Potentilla reptans</i> | | | 10 (91-100%) | 9 (76-90%) | 9 (76-90%) | III | 1 - 4 | LC |
| Common mallow | <i>Malva sylvestris</i> | 2 <4% (several individuals) | | | | | I | 1 - 1 | LC |
| Red bartsia | <i>Odontites vernus</i> | 2 <4% (several individuals) | | | | | I | 1 - 1 | LC |
| Black medick | <i>Medicago lupulina</i> | | 3 <4% (many individuals) | 4 (4-10%) | 7 (34-50%) | | III | 1 - 1 | LC |
| Bristly oxtongue | <i>Helminthotheca echioides</i> | | 1 <4% (few individuals) | 1 <4% (few individuals) | 3 <4% (many individuals) | 4 (4-10%) | IV | 2 - 2 | LC |
| Hard rush | <i>Juncus inflexis</i> | | | | | 4 (4-10%) | I | 1 - 1 | LC |
| Perforate St John's wort | <i>Hypericum perforatum</i> | 1 <4% (few individuals) | 4 (4-10%) | | | | II | 3 - 3 | LC |
| Broadleaved dock | <i>Rumex obtusifolius</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Curled Dock | <i>Rumex crispus</i> | | 3 <4% (many individuals) | | | 2 <4% (several individuals) | II | 2 - 3 | LC |
| Common hogweed | <i>Heracleum sphondylium</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Common ragwort | <i>Jacobaea vulgaris</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | 1 <4% (few individuals) | | | III | 1 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------|------------------------------|--------------------------|--------------------------|--------------------------|------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Meadow fescue | <i>Schedonorus pratensis</i> | | | | | 6 (26-33%) | I | 6 - 6 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 6 (26-33%) | 7 (34-50%) | 8 (51-75%) | 7 (34-50%) | 7 (34-50%) | V | 6 - 8 | LC |
| Common couch | <i>Elymus repens</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Smaller cats tail | <i>Phleum bertolonii</i> | 4 (4-10%) | | | 4 (4-10%) | | II | 4 - 4 | LC |
| Lesser trefoil | <i>Trifolium dubium</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Downy oat grass | <i>Avenula pubescens</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Common mouse ear | <i>Cerastium fontanum</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Creeping bent | <i>Agrostis stolonifera</i> | 3 <4% (many individuals) | 4 (4-10%) | | 6 (26-33%) | 4 (4-10%) | IV | 3 - 6 | LC |
| Black bent | <i>Agrostis gigantea</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Hawkweed oxtongue | <i>Picris hieracioides</i> | 1 <4% (few individuals) | 3 <4% (many individuals) | 3 <4% (many individuals) | | | III | 1 - 3 | LC |
| Meadow grass | <i>Poa sp.</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Cock's foot grass | <i>Dactylis glomerata</i> | 5 (11-25%) | | 4 (4-10%) | | | II | 4 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|------------------------------|-----------------------------|-------------------------|---|--------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Sheep fescue | <i>Festuca ovina agg.</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Clustered dock | <i>Rumex conglomeratus</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Daisy | <i>Bellis perennis</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Cleavers | <i>Galium aparine</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Cut leaved cranesbill | <i>Geranium dissectum</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| Annual meadow grass | <i>Poa annua</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Forget-me-not | <i>Myosotis sp.</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Rye grass | <i>Lolium sp.</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| False oat grass | <i>Arrhenatherum elatius</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Squirrel tail fescue | <i>Vulpia bromoides</i> | 3 <4% (many individuals) | 4 (4-10%) | | | | II | 3 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-----------------------------|-------------------|-------------------------|---|-----------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Sticky mouse ear | <i>Cerastium glomeratum</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Common bent | <i>Agrostis capillaris</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |

Table B-14 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 3 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section D: the Water Recycling Plant site to Portsdown Hill

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------|--------------------------|-----------------------------|-------------------------|--------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common bent | <i>Agrostis capillaris</i> | | 8 (51-75%) | 7 (34-50%) | 8 (51-75%) | 7 (34-50%) | IV | 7 - 8 | LC |
| Selfheal | <i>Prunella vulgaris</i> | 3 <4% (many individuals) | 1 <4% (few individuals) | | | 4 (4-10%) | III | 1 - 4 | LC |
| Eyebright | <i>Euphrasia sp.</i> | | 3 <4% (many individuals) | 5 (11-25%) | | | II | 3 - 5 | LC |
| Chalk milkwort | <i>Polygala calcarea</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Common milkwort | <i>Polygala vulgaris</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Hoary ragwort | <i>Jacobaea erucifolia</i> | | 2 <4% (several individuals) | 1 <4% (few individuals) | | | II | 1 - 2 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Ribwort plantain | <i>Plantago lanceolata</i> | 2 <4% (several individuals) | 4 (4-10%) | 4 (4-10%) | 2 <4% (several individuals) | 5 (11-25%) | V | 2 - 5 | LC |
| Common bird's foot trefoil | <i>Lotus corniculatus</i> | 4 (4-10%) | 5 (11-25%) | 4 (4-10%) | 5 (11-25%) | 4 (4-10%) | V | 4 - 5 | LC |
| Red bartsia | <i>Odontites vernus</i> | | | 7 (34-50%) | | | I | 7 - 7 | LC |
| Perforate St John's wort | <i>Hypericum perforatum</i> | 1 <4% (few individuals) | 4 (4-10%) | | 3 <4% (many individuals) | 4 (4-10%) | IV | 1 - 4 | LC |
| Field scabious | <i>Knautia arvensis</i> | | 1 <4% (few individuals) | | | | I | 4 - 4 | NT |
| Black medick | <i>Medicago lupulina</i> | 5 (11-25%) | 5 (11-25%) | 4 (4-10%) | 7 (34-50%) | 8 (51-75%) | V | 4 - 8 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | | | | | 2 <4% (several individuals) | I | 4 - 4 | LC |
| Smooth hawksbeard | <i>Crepis capillaris</i> | | 3 <4% (many individuals) | 2 <4% (several individuals) | 5 (11-25%) | | III | 2 - 5 | LC |
| Upright brome | <i>Bromopsis erecta</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Common ragwort | <i>Jacobaea vulgaris</i> | | | 2 <4% (several individuals) | | 1 <4% (few individuals) | II | 1 - 2 | LC |
| Wild marjoram | <i>Origanum vulgare</i> | 3 <4% (many individuals) | | | | 4 (4-10%) | II | 3 - 4 | LC |
| Meadow barley | <i>Hordeum secalinum</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Common centaury | <i>Centaurium erythraea</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-------------------------------|--------------------------|-----------------------------|-----------------------------|------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Yellow oat grass | <i>Trisetum flavescens</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Red fescue | <i>Festuca rubra</i> agg. | 7 (34-50%) | 5 (11-25%) | 8 (51-75%) | 8 (51-75%) | 7 (34-50%) | V | 5 - 8 | LC |
| Yellow-rattle | <i>Rhinanthus minor</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Vervain | <i>Verbena officinalis</i> | | 1 <4% (few individuals) | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Hedge bedstraw | <i>Galium album</i> | 4 (4-10%) | 5 (11-25%) | 4 (4-10%) | | 2 <4% (several individuals) | IV | 2 - 5 | LC |
| Rough hawkbit | <i>Leontodon hispidus</i> | 4 (4-10%) | 7 (34-50%) | 4 (4-10%) | 8 (51-75%) | 3 <4% (many individuals) | V | 3 - 8 | LC |
| Pyramidal Orchid | <i>Anacamptis pyramidalis</i> | 3 <4% (many individuals) | 1 <4% (few individuals) | | 4 (4-10%) | | III | 1 - 4 | LC |
| Fairy flax | <i>Linum catharticum</i> | | 5 (11-25%) | | 4 (4-10%) | | II | 4 - 5 | LC |
| Quaking grass | <i>Briza media</i> | 4 (4-10%) | 4 (4-10%) | | | | II | 4 - 4 | LC |
| Chalk knapweed | <i>Centaurea debeauxii</i> | 4 (4-10%) | | | 4 (4-10%) | 4 (4-10%) | III | 4 - 4 | LC |
| Creeping cinquefoil | <i>Potentilla reptans</i> | | 4 (4-10%) | 3 <4% (many individuals) | | | II | 3 - 4 | LC |
| Yellow-wort | <i>Blackstonia perfoliata</i> | 1 <4% (few individuals) | 2 <4% (several individuals) | 2 <4% (several individuals) | | | III | 1 - 2 | LC |
| Oxeye daisy | <i>Leucanthemum vulgare</i> | | | | | 8 (51-75%) | I | 8 - 8 | LC |
| Cock's foot grass | <i>Dactylis glomerata</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-------------------|--------------------------|-----------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Yorkshire fog | <i>Holcus lanatus</i> | | | 4 (4-10%) | | | I | 4 -4 | LC |
| Greater knapweed | <i>Centaurea scabiosa</i> | | 4 (4-10%) | 4 (4-10%) | | | II | 4 -4 | LC |
| Agrimony | <i>Agrimonia eupatoria</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Glaucous sedge | <i>Carex flacca</i> | | 4 (4-10%) | | 4 (4-10%) | | II | 4 - 4 | LC |
| Yarrow | <i>Achillea millefolium</i> | | 4 (4-10%) | 5 (11-25%) | 4 (4-10%) | 4 (4-10%) | IV | 4 - 5 | LC |
| Common knapweed | <i>Centaurea nigra</i> | | 3 <4% (many individuals) | 3 <4% (many individuals) | | | II | 3 - 3 | LC |
| Red clover | <i>Trifolium pratense</i> | 6 (26-33%) | | 1 <4% (few individuals) | 5 (11-25%) | 7 (34-50%) | IV | 1 - 7 | LC |
| Meadow buttercup | <i>Ranunculus acris</i> | | | 2 <4% (several individuals) | 4 (4-10%) | | II | 2 - 4 | LC |
| Perennial rye-grass | <i>Lolium perenne</i> | | | 5 (11-25%) | 6 (26-33%) | 3 <4% (many individuals) | III | 3 - 6 | LC |
| White clover | <i>Trifolium repens</i> | | | 1 <4% (few individuals) | 3 <4% (many individuals) | | II | 1 - 3 | LC |
| Small scabious | <i>Scabiosa columbaria</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Burnet saxifrage | <i>Pimpinella saxifraga</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Wild carrot | <i>Daucus carota</i> | | | 2 <4% (several individuals) | | | I | 2 - 2 | LC |
| Mouse ear hawkweed | <i>Pilosella officinarum</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------|--------------------------|-------------------|--------------------------|---|---|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common restharrow | <i>Odonties venus</i> | 6 (26-33%) | 3 <4% (many individuals) | | | 7 (34-50%) | III | 3 - 7 | LC |
| Small cat's-tail | <i>Phleum bertolonii</i> | | | | | 7 (34-50%) | I | 7 - 7 | LC |

Table B-15 National Vegetation Classification data table for vegetation communities identified at NVC site 4 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------------|---------------------------------|-------------------|-------------------------|--------------------------|------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Yorkshire fog | <i>Holcus Lanatus</i> | | | | 5 (11-25%) | 1 <4% (few individuals) | II | 1 - 5 | LC |
| Field bindweed | <i>Convolvulus arvensis</i> | 4 (4-10%) | 1 <4% (few individuals) | 1 <4% (few individuals) | | | III | 1 - 4 | LC |
| Common bird's foot trefoil | <i>Lotus corniculatus</i> | | 4 (4-10%) | 4 (4-10%) | | | II | 4 - 4 | LC |
| Rough hawkbit | <i>Leontodon hispidus</i> | | | 1 <4% (few individuals) | | 5 (11-25%) | II | 1 - 5 | LC |
| Tall fescue | <i>Schedonorus arundinaceus</i> | | | 8 (51-75%) | 9 (76-90%) | 5 (11-25%) | III | 5 - 9 | LC |
| Hedge bedstraw | <i>Galium album</i> | 4 (4-10%) | 1 <4% (few individuals) | | 6 (26-33%) | | III | 1 - 6 | LC |
| Perrenal rye grass | <i>Lolium perenne</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |
| Meadow barley | <i>Hordeum secalinum</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Rough meadow grass | <i>Poa trivialis</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |
| Meadow fescue | <i>Schedonorus pratensis</i> | 9 (76-90%) | 9 (76-90%) | 8 (51-75%) | 7 (34-50%) | 5 (11-25%) | V | 5 - 9 | LC |
| False oat grass | <i>Arrhenatherum elatius</i> | 7 (34-50%) | 1 <4% (few individuals) | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | V | 1 - 7 | LC |
| Cock's foot grass | <i>Dactylis glomerata</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | | 4 (4-10%) | 1 <4% (few individuals) | IV | 1 - 4 | LC |
| Red fescue | <i>Festuca rubra agg.</i> | | | 4 (4-10%) | | 1 <4% (few individuals) | II | 1 - 4 | LC |
| Hogweed | <i>Heracleum sphondylium</i> | 1 <4% (few individuals) | 1 <4% (few individuals) | 4 (4-10%) | | | III | 1 - 4 | LC |
| Yellow oat grass | <i>Trisetum flavescens</i> | | | | 3 <4% (many individuals) | 5 (11-25%) | II | 3 - 5 | LC |
| Ribwort plantain | <i>Plantago lanceolata</i> | | 1 <4% (few individuals) | | 7 (34-50%) | 5 (11-25%) | III | 1 - 7 | LC |
| Yellow rattle | <i>Rhinanthus minor</i> | 1 <4% (few individuals) | 3 <4% (many individuals) | 6 (26-33%) | 5 (11-25%) | 7 (34-50%) | V | 1 - 7 | LC |
| Wild carrot | <i>Daucus carota</i> | 1 <4% (few individuals) | 1 <4% (few individuals) | 3 <4% (many individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | V | 1 - 3 | LC |
| Agrimony | <i>Agrimonia eupatoria</i> | 3 <4% (many individuals) | 4 (4-10%) | 5 (11-25%) | 4 (4-10%) | 3 <4% (many individuals) | V | 3 - 5 | LC |
| Hoary ragwort | <i>Jacobaea erucifolia</i> | 3 <4% (many individuals) | 1 <4% (few individuals) | | 4 (4-10%) | 4 (4-10%) | IV | 1 - 4 | LC |
| Perforate St john's-wort | <i>Hypericum perforatum</i> | 1 <4% (few individuals) | | | 1 <4% (few individuals) | | II | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hawthorn sapling | <i>Crataegus monogyna</i> | | | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | III | 1 - 1 | LC |
| Black knapweed | <i>Centaurea nigra</i> | | 1 <4% (few individuals) | | 4 (4-10%) | 5 (11-25%) | III | 1 - 5 | LC |
| Common centaury | <i>Centaureum erythraea</i> | | | 1 <4% (few individuals) | 1 <4% (few individuals) | | II | 1 - 1 | LC |
| Black medick | <i>Medicago lupulina</i> | | 1 <4% (few individuals) | 1 <4% (few individuals) | | 1 <4% (few individuals) | III | 1 - 1 | LC |
| Red clover | <i>Trifolium pratense</i> | | | 1 <4% (few individuals) | | 4 (4-10%) | II | 1 - 4 | LC |
| Cowslip | <i>Primula veris</i> | 1 <4% (few individuals) | | | | 3 <4% (many individuals) | II | 1 - 3 | LC |
| Wild basil | <i>Clinopodium vulgare</i> | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | | | III | 1 - 1 | LC |
| Germander speedwell | <i>Veronica chamaedrys</i> | | | | 6 (26-33%) | | I | 6 - 6 | LC |
| Wild strawberry | <i>Fragaria vesca</i> | | | 1 <4% (few individuals) | 4 (4-10%) | 1 <4% (few individuals) | III | 1 - 4 | NT |
| Yarrow | <i>Achillea millefolium</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | | | 5 (11-25%) | III | 3 - 5 | LC |
| Common ragwort | <i>Jacobaea vulgaris</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Ground ivy | <i>Glechoma hederacea</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Wild marjoram | <i>Origanum vulgare</i> | 3 <4% (many individuals) | | | 4 (4-10%) | | II | 3 - 4 | LC |
| Blackthorn sapling | <i>Prunus spinosa</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------|-------------------------------|-------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Pyramidal Orchid | <i>Anacamptis pyramidalis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

Table B-16 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 5a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common Nettle | <i>Urtica dioica</i> | 9 (76-90%) | | | | | I | 9 - 9 | LC |
| Cleavers | <i>Galium aparine</i> | 9 (76-90%) | | | | | I | 9 - 9 | LC |
| Hogweed | <i>Heracleum sphondylium</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Dogs Mercury | <i>Mercurialis perennis</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Lords and Ladies | <i>Arum maculatum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Garlic Mustard | <i>Alliaria petiolata</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Wild Garlic | <i>Allium ursinum</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Dames Violet | <i>Hesperis matronalis</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Wood Dock | <i>Rumex sanguineus</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Creeping Buttercup | <i>Ranunculus repens</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Black Bryony | <i>Tamus communis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood Speedwell | <i>Veronica montana</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Canopy layer | | | | | | | | | |
| Field maple | <i>Acer campestre</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellanna</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Elder | <i>Sambucus nigra</i> | Present | | | | | I | | LC |
| Crab apple | <i>Malus sylvestris</i> | Present | | | | | I | | LC |
| Spindle | <i>Eunonymus europaeus</i> | Present | | | | | I | | LC |
| Wild privet | <i>Lingustrum vulgare</i> | Present | | | | | I | | LC |

Table B-17 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 5b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common Nettle | <i>Urtica dioica</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Cleavers | <i>Galium aparine</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Hogweed | <i>Heracleum sphondylium</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Dogs Mercury | <i>Mercurialis perennis</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| Lords and Ladies | <i>Arum maculatum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Garlic Mustard | <i>Alliaria petiolata</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wild Garlic | <i>Allium ursinum</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Wood Dock | <i>Rumex sanguineus</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Cow Parsley | <i>Anthriscus sylvestris</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Black Bryony | <i>Tamus communis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| English Bluebell | <i>Hyacinthoides non-scripta</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------------|----------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wood Avens | <i>Geum urbanum</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Dandelion | <i>Taraxacum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Primrose | <i>Primula vulgaris</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Lesser Burdock | <i>Arctium minus</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Wild Clematis | <i>Clematis vitalba</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Common Ivy | <i>Hedera helix subsp. Helix</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Nettle Leaved Bell-flower | <i>Campanula trachelium</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood Speedwell | <i>Veronica montana</i> | 6 (26-33%) | | | | | I | 1 - 1 | LC |
| Nipplewort | <i>Lapsana communis</i> | 1 <4% (few individuals) | | | | | II | 2 - 5 | LC |
| Creeping Bent | <i>Agrostis stolonifera</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Ivy leaved speedwell | <i>Veronica hederifolia</i> | 4 (4-10%) | | | | | I | 2 - 2 | LC |
| Canopy layer | | | | | | | | | |
| Field maple | <i>Acer campestre</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|---------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Crab apple | <i>Maslus sylvestris</i> | Present | | | | | I | | LC |
| Spindle | <i>Eunonymus repens</i> | Present | | | | | I | | LC |
| Wild privet | <i>Ligustrum vulgare</i> | Present | | | | | I | | LC |

Table B-18 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 6a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------|----------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Dogs Mercury | <i>Mercurialis perennis</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Common Nettle | <i>Urtica dioica</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Ivy | <i>Hedera helix subsp. Helix</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Hart tongue | <i>Asplenium scolopendrium</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| English Bluebell | <i>Hyacinthoides non-scripta</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Yellow Archangel | <i>Lamiastrum galeobOrder</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|----------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| | <i>Limitson subsp. monetanum</i> | | | | | | | | |
| Lords and Ladies | <i>Arum maculatum</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Travellers Joy | <i>Clematis vitalba</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Narrow buckler fern | <i>Dryopteris carthusiana</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Cleavers | <i>Galium aparine</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Hairy Brome | <i>Bromopsis ramosa</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Bittersweet | <i>Solanum dulcamara</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Wood Dock | <i>Rumex sanguineus</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Canopy layer | | | | | | | | | |
| Field maple | <i>Acer campestre</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |

Table B-19 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 6b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|--------------------------------------------|--------------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common Nettle | <i>Urtica dioica</i> | 9 (76-90%) | | | | | I | 9 - 9 | LC |
| Ivy | <i>Hedera helix</i> <i>subsp. Helix</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Wood Dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Lesser Celandine | <i>Ficaria verna</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Wood Avens | <i>Geum urbanum</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Enchanters Nightshade | <i>Circaea lutetiana</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Bulbous buttercup | <i>Ranunculus bulbosus</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Canopy layer | | | | | | | | | |
| Elm | <i>Elmus</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Elder | <i>Sambucus nigra</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |

Table B-20 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 7 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Selfheal | <i>Prunella vulgaris</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Common knapweed | <i>Centaurea nigra</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Common feather moss | <i>Kindbergia praelonga</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Agrimony | <i>Agrimonia eupatoria</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Ribwort plantain | <i>Plantago lanceolata</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Dandelion | <i>Taraxacum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Yarrow | <i>Achillea millefolium</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Black medick | <i>Medicago lupulina</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wild carrot | <i>Daucus carota</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| False oat-grass | <i>Arrhenatherum elatius</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Red fescue | <i>Festuca rubra agg.</i> | 9 (76-90%) | | | | | I | 9 - 9 | LC |
| Rough hawkbit | <i>Leontodon hispidus</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------|--------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Oak sapling | <i>Quercus sp.</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood false brome | <i>Brachypodium sylvaticum</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Red clover | <i>Trifolium pratense</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Wild clematis | <i>Clematis vitalba</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Neat feather moss | <i>Pseudocelropodium purum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |

Table B-21 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 8 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Dogwood sapling | <i>Cornus sanguinea</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Rose sapling | <i>Rosa sp.</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Ivy | <i>Hedera helix subsp. Helix</i> | 9 (76-90%) | | | | | I | 9 - 9 | LC |
| Broom | <i>Cytisus scoparius</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|--------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Butchers broom | <i>Ruscus aculeatus</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Hawthorn sapling | <i>Crataegus monogyna</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Honeysuckle | <i>Lonicera periclymenum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Common feather moss | <i>Kingbergia prelonga</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Cleavers | <i>Galium aparine</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| False wood brome | <i>Brachypodium sylvaticum</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Hazel sapling | <i>Corylus avellana</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Cocksfoot grass | <i>Dactylis glomerata</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| Oak sapling | <i>Quercus sp.</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood Dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Canopy layer | | | | | | | | | |
| Oak | <i>Quercus sp.</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------|---------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |

Table B-22 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 9 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section E: Portsdown Hill to Boarhunt

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------|-------------------------------|--------------------------|------------|-------------------------|-------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field Layer | | | | | | | | | |
| Pyramidal orchid | <i>Anacamptis pyramidalis</i> | 3 <4% (many individuals) | 4 (4-10%) | 4 (4-10%) | | | III | 3 - 4 | LC |
| Crosswort | <i>Cruciata laevipes</i> | 5 (11-25%) | 7 (34-50%) | | 4 (4-10%) | 5 (11-25%) | IV | 4 - 7 | NT |
| Hoary ragwort | <i>Jacobaea erucifolia</i> | 7 (34-50%) | | 4 (4-10%) | 4 (4-10%) | | III | 4 - 7 | LC |
| Smooth tare | <i>Ervum tetraspermum</i> | 1 <4% (few individuals) | 4 (4-10%) | 1 <4% (few individuals) | | 4 (4-10%) | IV | 1 - 4 | LC |
| Wild parsnip | <i>Pastinaca sativa</i> | 5 (11-25%) | 7 (34-50%) | 6 (26-33%) | | | III | 5 - 7 | LC |
| Ribwort plantain | <i>Plantago lanceolata</i> | 8 (51-75%) | 4 (4-10%) | 4 (4-10%) | 7 (34-50%) | 4 (4-10%) | V | 4 - 8 | LC |
| Dandelion | <i>Taraxacum</i> | 4 (4-10%) | | 1 <4% (few individuals) | | | II | 1 - 4 | LC |
| Red bartsia | <i>Odontites vernus</i> | 6 (26-33%) | | | 6 (26-33%) | | II | 6 - 6 | LC |
| Hairy St John's-wort | <i>Hypericum hirsutum</i> | 3 <4% (many individuals) | | | 1 <4% (few individuals) | | II | 1 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|--------------------------|--------------------------|--------------------------|-------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field bindweed | <i>Convolvulus arvensis</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Black medick | <i>Medicago lupulina</i> | 7 (34-50%) | 7 (34-50%) | 7 (34-50%) | 7 (34-50%) | 4 (4-10%) | V | 4 - 7 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 7 (34-50%) | 4 (4-10%) | 3 <4% (many individuals) | | | III | 3 - 7 | LC |
| Goat's beard | <i>Tragopogon pratensis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 3 <4% (many individuals) | | | 7 (34-50%) | 8 (51-75%) | III | 3 - 8 | LC |
| Common ragwort | <i>Jacobaea vulgaris</i> | 1 <4% (few individuals) | | 1 <4% (few individuals) | | | II | 1 - 1 | LC |
| Wild marjoram | <i>Origanum vulgare</i> | 1 <4% (few individuals) | 5 (11-25%) | | 4 (4-10%) | 4 (4-10%) | IV | 1 - 5 | LC |
| False oat-grass | <i>Arrhenatherum elatius</i> | 7 (34-50%) | | 6 (26-33%) | | 8 (51-75%) | III | 6 - 8 | LC |
| Red fescue | <i>Festuca rubra agg.</i> | 4 (4-10%) | 5 (11-25%) | 7 (34-50%) | 7 (34-50%) | 6 (26-33%) | V | 4 - 7 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Hedge bedstraw | <i>Galium album</i> | 4 (4-10%) | | 3 <4% (many individuals) | 1 <4% (few individuals) | 6 (26-33%) | IV | 1 - 6 | LC |
| Rough hawkbit | <i>Leontodon hispidus</i> | | 1 <4% (few individuals) | 6 (26-33%) | 7 (34-50%) | 4 (4-10%) | IV | 1 - 7 | LC |
| Wild strawberry | <i>Fragaria vesca</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | NT |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|--------------------------------|-------------------|-----------------------------|-----------------------------|--------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Fairy flax | <i>Linum catharticum</i> | | 1 <4% (few individuals) | | 3 <4% (many individuals) | | II | 1 - 3 | LC |
| Common broomrape | <i>Orobanche minor</i> | | 4 (4-10%) | | 4 (4-10%) | 1 <4% (few individuals) | III | 2 - 4 | LC |
| Yellow-wort | <i>Blackstonia perfoliata</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| White clover | <i>Trifolium repens</i> | | | | 5 (11-25%) | 7 (34-50%) | II | 5 - 7 | LC |
| Crested dog's-tail | <i>Cynosurus cristatus</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Wood false brome | <i>Brachypodium sylvaticum</i> | | 2 <4% (several individuals) | 4 (4-10%) | | | II | 2 - 4 | LC |
| Yellow rattle | <i>Rhinanthus minor</i> | | 4 (4-10%) | 4 (4-10%) | | | II | 4 - 4 | LC |
| Glaucous sedge | <i>Carex flacca</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Wild clematis | <i>Clematis vitalba</i> | | | 1 <4% (few individuals) | 3 <4% (many individuals) | | II | 1 - 3 | LC |
| Common mouse ear | <i>Cerastium fontanum</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Common bent | <i>Agrostis capillaris</i> | | | | 5 (11-25%) | | I | 5 - 5 | LC |
| Cock's-foot | <i>Dactylis glomerata</i> | | | 2 <4% (several individuals) | | 6 (26-33%) | II | 2 - 6 | LC |
| Common hogweed | <i>Heracleum sphondylium</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Common vetch | <i>Vicia sativa</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------|--------------------------|-------------------|-----------|---|--------------------------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Small cat's-tail | <i>Phleum bertolonii</i> | | 4 (4-10%) | | 3 <4% (many individuals) | | II | 3 - 4 | LC |

Table B-23 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 10 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section F: Boarhunt to Crockerhill

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-------------------------------------|-------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Perennial rye grass | <i>Lolium perenne</i> | 9 (76-90%) | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | V | 8 - 9 | LC |
| Greater plaintain | <i>Plantago major</i> | | | | | 2 <4% (several individuals) | I | 2 - 2 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 4 (4-10%) | | 2 <4% (several individuals) | | | II | 2 - 4 | LC |
| Dock | <i>Rumex sp</i> | 4 (4-10%) | 3 <4% (many individuals) | 3 <4% (many individuals) | 4 (4-10%) | | IV | 3 - 4 | LC |
| Creeping bent | <i>Agrostis stolonifera</i> | 9 (76-90%) | 7 (34-50%) | 8 (51-75%) | | 5 (11-25%) | IV | 5 - 9 | LC |
| Spear thistle | <i>Cirsium vulgare</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Soft brome | <i>Bromus hordeaceus</i> | | | | 5 (11-25%) | | I | 5 - 5 | LC |
| Creeping thistle | <i>Cirsium arvense var. incanum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------|--------------------------------|--------------------------|-----------------------------|--------------------------|------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common nettle | <i>Urtica dioica</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Dandelion | <i>Taraxacum</i> | 4 (4-10%) | 4 (4-10%) | 3 <4% (many individuals) | 5 (11-25%) | 5 (11-25%) | V | 3 - 5 | LC |
| Common bent | <i>Agrostis capillaris</i> | | | | 5 (11-25%) | | I | 5 - 5 | LC |
| Common chickweed | <i>Stellaria media</i> | | 2 <4% (several individuals) | 3 <4% (many individuals) | 5 (11-25%) | 4 (4-10%) | IV | 2 - 5 | LC |
| Hedge mustard | <i>Sisymbrium officinale</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Shepards purse | <i>Capsella bursa-pastoris</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Speedwell | <i>Veronica sp</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |

Table B-24 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 11 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section F: Boarhunt to Crockerhill

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-----------------------------|------------|---|-----------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | 2 <4% (several individuals) | 6 (26-33%) | | 4 (4-10%) | | III | 2 - 6 | LC |
| Bracken | <i>Pteridium aquilinum</i> | 5 (11-25%) | 5 (11-25%) | | | | II | 5 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Foxglove | <i>Digitalis purpurea</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood anemone | <i>Anemone nemorosa</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Lesser celandine | <i>Ficaria verna</i> | | | | 8 (51-75%) | | I | 8 - 8 | LC |
| Bluebells | <i>Hyacinthoides non-scripta</i> | 9 (76-90%) | 9 (76-90%) | | | | II | 9 - 9 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 2 <4% (several individuals) | | 2 <4% (several individuals) | | | II | 2 - 2 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Fern | <i>Dryopteris</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Common nettle | <i>Urtica dioica</i> | | 4 (4-10%) | 8 (51-75%) | | | II | 4 - 8 | LC |
| Broadleaved dock | <i>Rumex obtusifolius</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Solomon's seal | <i>Polygonatum multiflorum</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 2 <4% (several individuals) | 4 (4-10%) | | 1 <4% (few individuals) | | III | 1 - 4 | LC |
| Dog's mercury | <i>Mercurialis perennis</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Red campion | <i>Silene dioica</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Cleavers | <i>Galium aparine</i> | 1 <4% (few individuals) | 2 <4% (several individuals) | 4 (4-10%) | 5 (11-25%) | | IV | 1 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Creeping buttercup | <i>Ranunculus repens</i> | 1 <4% (few individuals) | | 5 (11-25%) | | | II | 1 - 5 | LC |
| Remote sedge | <i>Carex remota</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Wood speedwell | <i>Veronica montana</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Holly sapling | <i>Ilex aquifolium</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Rose sapling | <i>Rosa</i> | | 2 <4% (several individuals) | | | | I | 2 - 2 | LC |
| Wild angelica | <i>Angelica sylvestris</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Dandelion | <i>Taraxacum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Creeping bent | <i>Agrostis stolonifera</i> | 1 <4% (few individuals) | | 2 <4% (several individuals) | | | II | 1 - 2 | LC |
| Nipplewort | <i>Lapsana communis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Canopy layer | | | | | | | | | |
| Alder | <i>Alnus glutinosa</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Willow | <i>Salix sp.</i> | | | Present | | | I | | LC |
| Oak species | <i>Quercus sp.</i> | | Present | Present | Present | | III | | LC |
| Shrub layer | | | | | | | | | |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------|---------------------------|-------------------|---------|---------|---------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hawthorn | <i>Crataegus monogyna</i> | | | | Present | | I | | LC |
| Cherry | <i>Prunus sp.</i> | | | Present | | | I | | LC |
| Holly | <i>Ilex aquifolium</i> | | | | Present | | I | | LC |
| Elder | <i>Sambucu nigra</i> | | Present | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | Present | | Present | | III | | LC |

Table B-25 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 12 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-----------------------------|--------------------------|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Hedge bindweed | <i>Calystegia sepium</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | | | | II | 3 - 3 | LC |
| Bluebells | <i>Hyacinthoides non-scripta</i> | | 6 (26-33%) | | | | I | 6 - 6 | LC |
| Bittersweet | <i>Solanum dulcamara</i> | 2 <4% (several individuals) | 1 <4% (few individuals) | | | | II | 1 - 2 | LC |
| Marsh thistle | <i>Cirsium palustre</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Hawthorn sapling | <i>Crataegus monogyna</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wood dock | <i>Rumex sanguineus</i> | 2 <4% (several individuals) | 3 <4% (many individuals) | | | | II | 1 - 3 | LC |
| Herb robert | <i>Geranium robertinum</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Bramble | <i>Rubus fruitcosus</i> agg. | 7 (34-50%) | | 4 (4-10%) | | | II | 4 - 7 | LC |
| Foxglove | <i>Digitalis purpurea</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Hard shield fern | <i>Polystichum aculeatum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Honeysuckle | <i>Lonicera periclymenum</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Cleavers | <i>Galium aparine</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Hedge woundwort | <i>Galium album</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Ground Ivy | <i>Gelchoma hederacea</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Remote sedge | <i>Carex remota</i> | 1 <4% (few individuals) | | 3 <4% (many individuals) | | | II | 1 - 3 | LC |
| Soft rush | <i>Juncus effusus</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Rough stalked feather moss | <i>Brachythecium retublum</i> | | | 2 <4% (several individuals) | | | I | 2 - 2 | LC |
| Scaly male fern | <i>Dryopteris affinis</i> agg. | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Broad buckler fern | <i>Dryopteris dilatata</i> | | 2 <4% (several individuals) | | | | I | 2 - 2 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|--------------------------|--------------------------|--------------------------|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Male fern | <i>Dryopteris filix-max</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Rose sapling | <i>Rosa sp.</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Common feather moss | <i>Kindbergia prelonga</i> | 3 <4% (many individuals) | | 4 (4-10%) | | | II | 3 - 4 | LC |
| Cocksfoot grass | <i>Dactylis glomerata</i> | | | 5 (11-25%) | | | I | 5 - 5 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Giant fescue | <i>Schedonorus giganteus</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Common ivy | <i>Hedera helix</i> | 8 (51-75%) | | 7 (34-50%) | | | II | 7 - 8 | LC |
| Common nettle | <i>Urtica dioica</i> | | 9 (76-90%) | 4 (4-10%) | | | II | 4 - 9 | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | | Present | | | II | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | | | III | | LC |
| Willow | <i>Salix sp.</i> | Present | | | | | I | | LC |
| Alder | <i>Alnus glutinosa</i> | Present | Present | Present | | | III | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | | | Present | | | I | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |
| Holly | <i>Ilex aquifolium</i> | | | Present | | | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------|-------------------------|-------------------|---------|---------|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hazel | <i>Corylus avellana</i> | Present | Present | Present | | | III | | LC |

Table B-26 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 13 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|----------------------------|-------------------|--------------------------|-----------------------------|-------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Marsh Horsetail | <i>Equisetum palustre</i> | | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | 4 (4-10%) | IV | 1 - 4 | LC |
| Silverweed | <i>Potentilla anserina</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Angelica | <i>Angelica sylvestris</i> | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | 5 (11-25%) | 5 (11-25%) | V | 3 - 5 | LC |
| Meadow thistle | <i>Cirsium dissectum</i> | 5 (11-25%) | 4 (4-10%) | | | | II | 4 - 5 | LC |
| Tormentil | <i>Potentilla erecta</i> | | 1 <4% (few individuals) | 6 (26-33%) | | 7 (34-50%) | III | 1 - 7 | NT |
| Cleavers | <i>Galium aparine</i> | 4 (4-10%) | 3 <4% (many individuals) | 2 <4% (several individuals) | 1 <4% (few individuals) | | IV | 1 - 4 | LC |
| Common sorrel | <i>Rumex acetosa</i> | 5 (11-25%) | 4 (4-10%) | 4 (4-10%) | 1 <4% (few individuals) | 4 (4-10%) | V | 1 - 5 | LC |
| Sneezewort | <i>Achillea ptarmica</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Jointed rush | <i>Juncus articulatus</i> | 7 (34-50%) | 5 (11-25%) | 7 (34-50%) | 7 (34-50%) | 8 (51-75%) | V | 5 - 8 | LC |
| Sharp-flowered rush | <i>Juncus acutiflorus</i> | 7 (34-50%) | 7 (34-50%) | | | | II | 7 - 7 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------------|------------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Sweet vernal grass | <i>Anthoxanthum odoratum</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Purple moor-grass | <i>Molinia caerulea</i> | | | 7 (34-50%) | 5 (11-25%) | | II | 5 - 7 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 4 (4-10%) | 7 (34-50%) | 4 (4-10%) | 5 (11-25%) | 8 (51-75%) | V | 4 - 8 | LC |
| Soft rush | <i>Juncus effusus</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Red campion | <i>Silene dioica</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| False oat-grass | <i>Arrhenatherum elatius</i> | 8 (51-75%) | 9 (76-90%) | 7 (34-50%) | 7 (34-50%) | 8 (51-75%) | V | 7 - 9 | LC |
| Betony | <i>Betonica officinalis</i> | 1 <4% (few individuals) | 1 <4% (few individuals) | | | 1 <4% (few individuals) | III | 1 - 1 | LC |
| Yarrow | <i>Achillea millefolium</i> | 1 <4% (few individuals) | | | | 4 (4-10%) | II | 1 - 4 | LC |
| Common knapweed | <i>Centaurea nigra</i> | | 4 (4-10%) | 4 (4-10%) | | | II | 4 - 4 | LC |
| Marsh thistle | <i>Cirsium palustre</i> | | 3 <4% (many individuals) | 4 (4-10%) | 3 <4% (many individuals) | | III | 3 - 4 | LC |
| Field bindweed | <i>Convolvulus arvensis</i> | | 4 (4-10%) | 4 (4-10%) | | | II | 4 - 4 | LC |
| Greater bird's-foot trefoil | <i>Lotus pedunculatus</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Red fescue | <i>Festuca rubra agg.</i> | | 4 (4-10%) | | 4 (4-10%) | 4 (4-10%) | II | 4 - 4 | LC |
| Compact rush | <i>Juncus conglomeratus</i> | | | | 5 (11-25%) | 4 (4-10%) | II | 4 - 5 | LC |
| Bittersweet | <i>Solanum dulcamara</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Water mint | <i>Mentha aquatica</i> | | | | 7 (34-50%) | | I | 7 - 7 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|--------------------------------|-------------------|---|--------------------------|---|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Meadow vetchling | <i>Lathyrus pratensis</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Creeping thistle | <i>Cirsium arvense</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Narrow buckler fern | <i>Dryopteris carthusiana</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Lesser stitchwort | <i>Stellaria graminea</i> | 4 (4-10%) | | | | 4 (4-10%) | II | 4 - 4 | LC |

Table B-27 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 14 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------------|------------------------------|-------------------------|------------|------------|------------|-----------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Lesser pond sedge | <i>Carex acutiformis</i> | | | 7 (34-50%) | 7 (34-50%) | | II | 7 - 7 | LC |
| Greater bird's foot trefoil | <i>Lotus pedunculatus</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Sweet vernal grass | <i>Anthoxanthum odoratum</i> | | 5 (11-25%) | | | | I | 5 - 5 | LC |
| Common fleabane | <i>Pulicaria dysenterica</i> | 6 (26-33%) | 6 (26-33%) | 5 (11-25%) | 5 (11-25%) | 4 (4-10%) | V | 4 - 6 | LC |
| Water mint | <i>Mentha aquatica</i> | 4 (4-10%) | 7 (26-33%) | | | 4 (4-10%) | III | 4 - 7 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------|-------------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Sharp flowered rush | <i>Juncus acutiflorus</i> | 5 (11-25%) | 4 (4-10%) | | | | II | 4 - 7 | LC |
| Himalayan balsam | <i>Impatiens glandulifera</i> | 4 (4-10%) | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | V | 1 - 4 | LC |
| Clustered dock | <i>Rumex conglomeratus</i> | 1 <4% (few individuals) | | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Jointed rush | <i>Juncus articulatus</i> | | 6 (26-33%) | | 4 (4-10%) | | II | 4 - 6 | LC |
| Brown sedge | <i>Carex disticha</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Branched bur-reed | <i>Sparganium erectum</i> | | | 1 <4% (few individuals) | 1 <4% (few individuals) | | II | 1 - 1 | LC |
| Marsh thistle | <i>Cirsium palustre</i> | 1 <4% (few individuals) | | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Marsh stitchwort | <i>Stellaria palustris</i> | 4 (4-10%) | | | | | I | 4 - 4 | VU |
| Lesser spearwort | <i>Ranunculus flammula</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | VU |
| Marsh horsetail | <i>Equisetum palustre</i> | | | 5 (11-25%) | 5 (11-25%) | 1 <4% (few individuals) | III | 1 - 5 | LC |
| Hoary willow herb | <i>Epilobium parviflorum</i> | 1 <4% (few individuals) | | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Common sorrel | <i>Rumex acetosa</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Floating sweet grass | <i>Glyceria fluitans</i> | | | 3 <4% (many individuals) | 3 <4% (many individuals) | | II | 3 - 3 | LC |
| Water forget-met-not | <i>Myosotis scorpioides</i> | | | 3 <4% (many individuals) | 3 <4% (many individuals) | | II | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------------|-----------------------------|-------------------------|--------------------------|-----------------------------|-----------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hairy sedge | <i>Carex hirta</i> | | | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | III | 1 - 1 | LC |
| Silverweed | <i>Potentilla anserina</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Gypsywort | <i>Lycopus europaeus</i> | | | 2 <4% (several individuals) | 2 <4% (several individuals) | | II | 2 - 2 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | 1 <4% (few individuals) | 3 <4% (many individuals) | 4 (4-10%) | 4 (4-10%) | | IV | 1 - 4 | LC |
| Square stalked willowherb | <i>Epilobium tetragonum</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | | 5 (11-25%) | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | IV | 4 - 5 | LC |
| Hard rush | <i>Juncus inflexus</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |

Table B-28 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 15 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-------------------------------|--------------------------|---|---|---|---|-----------------|---------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common nettle | <i>Urtica dioica</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Himalyan baslam | <i>Impatiens glandulifera</i> | 10 (91-100%) | | | | | I | 10 - 10 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Cleavers | <i>Galium aparine</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Herb robert | <i>Geranium robertianum</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Common valerian | <i>Valeriana officinalis</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Wood avens | <i>Geum urbanum</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Canopy layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Alder | <i>Alnus glutinosa</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Alder | <i>Alnus glutinosa</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |

Table B-29 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 16 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|-----------------------------|------------|--------------------------|-----------------------------|---|-----------------|--------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common nettle | <i>Urtica dioica</i> | | 9 (76-90%) | 6 (26-33%) | | | II | 6 - 9 | LC |
| Common ivy | <i>Hedera helix</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Cleavers | <i>Galium aparine</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 6 (26-33%) | | 10 (91-100%) | | | II | 6 - 10 | LC |
| Ground ivy | <i>Glechoma hederacea</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Oak sapling | <i>Quercus</i> | 3 <4% (many individuals) | | | 2 <4% (several individuals) | | II | 3 - 3 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | 2 <4% (several individuals) | 4 (4-10%) | 3 <4% (many individuals) | 9 (76-90%) | | IV | 2 - 9 | LC |
| common hogweed | <i>Heracleum sphondylium</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Pendulous sedge | <i>Carex pendula</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Common couch | <i>Elymus repens</i> | | | | 2 <4% (several individuals) | | I | 2 - 2 | LC |
| Cocksfoot grass | <i>Dactylis glomerata</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|---------------------------|-----------------------------|---------|---------|---------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Creeping thistle | <i>Cirsium arvense</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Canopy layer | | | | | | | | | |
| Turkey oak | <i>Quercus cerris</i> | | Present | Present | | | II | | LC |
| Ash | <i>Fraxinus excelsior</i> | | | Present | | | I | | LC |
| Osier | <i>Salix viminalis</i> | | Present | | Present | | I | | LC |
| Oak | <i>Quercus sp.</i> | Present | | | | | I | | LC |
| Goat willow | <i>Salix caprea</i> | | | Present | | | I | | LC |
| Alder | <i>Alnus glutinosa</i> | Present | Present | Present | Present | | III | | LC |
| Silver birch | <i>Betula pendula</i> | | Present | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Wild plum | <i>Prunus domestica</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | | Present | Present | Present | | III | | LC |
| Rowan | <i>Sorbus aucuparia</i> | | | Present | | | I | | LC |

Table B-30 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 17 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix</i> | 9 (76-90%) | | | | | I | | LC |
| Wood Anemone | <i>Anemone nemorosa</i> | 3 <4% (many individuals) | | | | | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wild strawberry | <i>Fragaria vesca</i> | 3 <4% (many individuals) | | | | | I | | NT |
| Common dog violet | <i>Viola riviniana</i> | 2 <4% (several individuals) | | | | | I | | LC |
| Primrose | <i>Primula vulgaris</i> | 3 <4% (many individuals) | | | | | I | | LC |
| Wood speedwell | <i>Veronica montana</i> | 1 <4% (few individuals) | | | | | I | | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Silver birch | <i>Betula pendula</i> | Present | | | | | I | | LC |
| Willow | <i>Salix sp.</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |
| Rose | <i>Rosa sp.</i> | Present | | | | | I | | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | Present | | | | | I | | LC |

Table B-31 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 18 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|--------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Harts tongue fern | <i>Asplenium scolopendrium</i> | 3 <4% (many individuals) | | | | | I | | LC |
| Dog's mercury | <i>Mercurialis perennis</i> | 5 (11-25%) | | | | | I | | LC |
| Hazel sapling | <i>Corylus avellana</i> | 1 <4% (few individuals) | | | | | I | | LC |
| Common ivy | <i>Hedera helix</i> | 10 (91-100%) | | | | | I | | LC |
| Field maple sapling | <i>Acer campestre</i> | 1 <4% (few individuals) | | | | | I | | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 3 <4% (many individuals) | | | | | I | | LC |
| Broad buckler fern | <i>Dryopteris dilatata</i> | 2 <4% (several individuals) | | | | | I | | LC |
| Wood avens | <i>Geum urbanum</i> | 4 (4-10%) | | | | | I | | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Turkey oak | <i>Quercus cerris</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------|------------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Wild plum | <i>Prunus domestica</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Field maple | <i>Acer campestre</i> | Present | | | | | I | | LC |
| Bramble | <i>Rubus fruticosus</i> agg. | Present | | | | | I | | LC |

Table B-32 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 19 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G: Crockerhill to Wickham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-----------------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix</i> subsp. <i>Helix</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Galic mustard | <i>Alliaria petiolata</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| English bluebell | <i>Hyacinthoides non-scripta</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Pendulous sedge | <i>Carex pendula</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Dog's mercury | <i>Mercurialis perennis</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Bramble | <i>Rubus fruticosus agg.</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Wood avens | <i>Geum urbanum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Herb robert | <i>Geranium robertianum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Cocksfoot | <i>Dactylis glomerata</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Lords and Ladies | <i>Arum maculatum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Nipplewort | <i>Lapsana communis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Field maple | <i>Acer campestre</i> | Present | | | | | I | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |
| Sycamore | <i>Acer pseudoplatanus</i> | Present | | | | | I | | LC |

Table B-33 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 20 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section H: Wickham to Shedfield

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-----------------------------|------------|------------|-----------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Bluebell | <i>Hyacinthoides non-scripta</i> | 4 (4-10%) | | | | 6 (26-33%) | II | 4 - 6 | LC |
| Wood sedge | <i>Carex Sylvatica</i> | 4 (4-10%) | 4 (4-10%) | | 4 (4-10%) | 3 <4% (many individuals) | IV | 3 - 4 | LC |
| Rose | <i>Rosa sp.</i> | 1 <4% (few individuals) | | | 3 <4% (many individuals) | | II | 1 - 3 | LC |
| Dogs mercury | <i>Mercurialis perennis</i> | 4 (4-10%) | 5 (11-25%) | | | 8 (51-75%) | III | 4 - 8 | LC |
| Pignut | <i>Conopodium majus</i> | | | 5 (11-25%) | | | I | 5 - 5 | LC |
| Black bryony | <i>Tamus communis</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| False oat grass | <i>Arrhenatherum elatius</i> | | | | 2 <4% (several individuals) | | I | 2 - 2 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | 5 (11-25%) | 4 (4-10%) | 4 (4-10%) | | | III | 4 - 5 | LC |
| Tufted hair grass | <i>Deschampsia cespitosa</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Common nettle | <i>Urtica dioica</i> | | | | 6 (26-33%) | | I | 6 - 6 | LC |
| Wood avens | <i>Geum urbanum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|--------------------------------|-----------------------------|-------------------------|--------------------------|-----------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common dog's violet | <i>Viola riviniana</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Soft shield fern | <i>Polystichum setiferum</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Herb robert | <i>Geranium robertianum</i> | | | | | 2 <4% (several individuals) | I | 2 - 2 | LC |
| Ground ivy | <i>Glechoma hederacea</i> | | | 5 (11-25%) | | | I | 5 - 5 | LC |
| Sanicle | <i>Sanicula europaea</i> | | | 6 (26-33%) | | | I | 6 - 6 | LC |
| Cleavers | <i>Galium aparine</i> | 2 <4% (several individuals) | 4 (4-10%) | 6 (26-33%) | 6 (26-33%) | 6 (26-33%) | V | 2 - 6 | LC |
| Ash | <i>Fraxinus excelsior</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Hedge woundwort | <i>Stachys sylvatica</i> | | | 6 (26-33%) | | | I | 6 - 6 | LC |
| Holly sapling | <i>Sambucus nigra</i> | 2 <4% (several individuals) | | 4 (4-10%) | | 2 <4% (several individuals) | III | 2 - 4 | LC |
| Wood false brome | <i>Brachypodium sylvaticum</i> | 7 (34-50%) | | | | 5 (11-25%) | II | 5 - 7 | LC |
| Remote sedge | <i>Carex remota</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Blackthorn | <i>Prunus spinosa</i> | | 1 <4% (few individuals) | | 2 <4% (several individuals) | 5 (11-25%) | III | 1 - 5 | LC |
| Wood anemone | <i>Anemone nemorosa</i> | 2 <4% (several individuals) | | | | 4 (4-10%) | II | 2 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|---------------------------------------------------------|-------------------------|------------|------------|-----------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hawthorn sapling | <i>Crataegus monogyna</i> | 1 <4% (few individuals) | | | 2 <4% (several individuals) | | II | 1 - 2 | LC |
| Yellow archangel | <i>Lamiasstrum galeobOrder Limitson subsp. montanum</i> | | | 5 (11-25%) | | | I | 5 - 5 | LC |
| Common ivy | <i>Hedera helix</i> | 5 (11-25%) | 9 (76-90%) | 8 (51-75%) | 9 (76-90%) | 5 (11-25%) | V | 5 - 9 | LC |
| Canopy layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Field maple | <i>Acer campestre</i> | | | | | Present | I | | LC |
| Willow sp. | <i>Salix sp.</i> | Present | Present | | | Present | III | | LC |
| Ash | <i>Fraxinus excelsior</i> | | | Present | Present | Present | III | | LC |
| Pedunculate oak | <i>Quercus robur</i> | | Present | Present | Present | Present | IV | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | | Present | | | Present | II | | LC |
| Yew | <i>Taxus baccata</i> | Present | | | | | I | | LC |
| Blackthorn | <i>Prunus spinosa</i> | | | Present | Present | | II | | LC |
| Willow sp. | <i>Salix sp.</i> | | Present | | | | I | | LC |
| Field maple | <i>Acer campestre</i> | | | | | Present | I | | LC |
| Elder | <i>Sambucus nigra</i> | | | Present | Present | Present | III | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | | Present | Present | Present | IV | | LC |
| Hazel | <i>Corylus avellana</i> | Present | Present | Present | Present | Present | V | | LC |

Table B-34 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 21a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section G Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|-------------------------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Dog's mercury | <i>Mercurialis perennis</i> | | 3 <4% (many individuals) | | 4 (4-10%) | | II | 3 - 4 | LC |
| Common bent | <i>Agrostis capillaris</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Germander speedwell | <i>Veronica chamaedrys</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Greater stitchwort | <i>Stellaria holostea</i> | 3 <4% (many individuals) | | | | 4 (4-10%) | II | 3 - 4 | LC |
| Remote sedge | <i>Carex remota</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |
| Blackthorn sapling | <i>Prunus spinosa</i> | 1 <4% (few individuals) | | | 1 <4% (few individuals) | | II | 1 - 1 | LC |
| Common nettle | <i>Urtica dioica</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Common ivy | <i>Hedera helix</i> | 6 (26-33%) | 6 (26-33%) | | 5 (11-25%) | 5 (11-25%) | IV | 5 - 6 | LC |
| hawthorn sapling | <i>Crataegus monogyna subsp. Azarella</i> | 4 (4-10%) | | 2 <4% (several individuals) | | | II | 2 - 4 | LC |
| Common figwort | <i>Scrophularia nodosa</i> | | | | | 2 <4% (several individuals) | I | 2 - 2 | LC |
| Enchanter's nightshade | <i>Circaea lutetiana</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Herb-robert | <i>Geranium robertianum</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Bramble | <i>Rubus fruticosus agg.</i> | | | 4 (4-10%) | 3 <4% (many individuals) | 3 <4% (many individuals) | III | 3 - 4 | LC |
| Ground ivy | <i>Glechoma hederacea</i> | | 3 <4% (many individuals) | | 4 (4-10%) | 4 (4-10%) | III | 3 - 4 | LC |
| Cocksfoot grass | <i>Dactylis glomerata</i> | 3 <4% (many individuals) | | 3 <4% (many individuals) | | 4 (4-10%) | III | 3 - 4 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 2 <4% (several individuals) | | | | 3 <4% (many individuals) | II | 2 - 3 | LC |
| Marsh thistle | <i>Cirsium palustre</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Giant fescue | <i>Schedonorus giganteus</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Wood sedge | <i>Carex sylvatica</i> | | 5 (11-25%) | 4 (4-10%) | | | II | 4 - 5 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | V | 3 - 4 | LC |
| holly sapling | <i>Ilex aquifolium</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Lords-and-ladies | <i>Arum maculatum</i> | | | | 2 <4% (several individuals) | | I | 2 - 2 | LC |
| Bracken | <i>Pteridium aquilinum</i> | | 2 <4% (several individuals) | 4 (4-10%) | | 5 (11-25%) | III | 2 - 5 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | 4 (4-10%) | 3 <4% (many individuals) | 4 (4-10%) | 6 (26-33%) | 5 (11-25%) | V | 3 - 6 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------------|----------------------------------|-------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common dog violet | <i>Viola riviniana</i> | | 3 <4% (many individuals) | | 4 (4-10%) | 4 (4-10%) | III | 3 - 4 | LC |
| Wood avens | <i>Geum urbanum</i> | | | 4 (4-10%) | | 4 (4-10%) | II | 4 - 4 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | | | 3 <4% (many individuals) | 2 <4% (several individuals) | 4 (4-10%) | III | 2 - 4 | LC |
| Common dog rose sapling | <i>Rosa canina</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Black bryony | <i>Tamus communis</i> | | | 1 <4% (few individuals) | 2 <4% (several individuals) | | II | 1 - 2 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | | | | 2 <4% (several individuals) | 3 <4% (many individuals) | II | 2 - 3 | LC |
| Field maple sapling | <i>Acer campestre</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Bluebell | <i>Hyacinthoides non-scripta</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Common comfrey | <i>Symphytum officinale</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| Dandelion | <i>Taraxacum</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Nipplewort | <i>Lapsana communis</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| Canopy layer | | | | | | | | | |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Ash | <i>Fraxinus excelsior</i> | | | | Present | Present | II | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | V | | LC |
| Field maple | <i>Acer campestre</i> | | Present | Present | Present | | III | | LC |
| Hazel | <i>Corylus avellana</i> | Present | Present | | Present | Present | IV | | LC |
| Blackthorn | <i>Prunus spinosa</i> | | Present | Present | Present | | III | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | Present | | Present | III | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | | | Present | Present | III | | LC |
| Goat willow | <i>Salix caprea</i> | | | | | Present | I | | LC |

Table B-35 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 21b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-----------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Dog's mercury | <i>Mercurialis perennis</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Lesser Celandine | <i>Ficaria verna</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Common nettle | <i>Urtica dioica</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Common ivy | <i>Hedera helix</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| Lords-and-ladies | <i>Arum maculatum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|--------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| False brome | <i>Brachypodium sylvaticum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Canopy layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | | | | | I | | LC |

Table B-36 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 22 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Hedge bindweed | <i>Calystegia sepium</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Wild angelica | <i>Angelica sylvestris</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|---------------------------|-------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Great willowherb | <i>Epilobium hirsutum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Common nettle | <i>Urtica dioica</i> | 9 (76-90%) | | | | | I | 9 - 9 | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Holly | <i>Ilex aquifolium</i> | Present | | | | | I | | LC |

Table B-37 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 23 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|----------------------------------|-------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Black bryony | <i>Tamus communis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Perennial rye | <i>Lolium perenne</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Common dog's violet | <i>Viola riviniana</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Lords and ladies | <i>Arum maculatum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Bramble agg | <i>Rubus fruticosus agg.</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Cleavers | <i>Galium aparine</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Cock's foot | <i>Dactylis glomerata</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Great horsetail | <i>Equisetum telmateia</i> | 2 <4% (several individuals) | | | | | I | 1 - 1 | LC |
| Holly sapling | <i>Ilex aquifolium</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Blackthorn sapling | <i>Prunus spinosa</i> | 1 <4% (few individuals) | | | | | II | 2 - 5 | LC |
| Sessile oak sapling | <i>Quercus petraea</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Hawthorn sapling | <i>Crataegus monogyna</i> | 1 <4% (few individuals) | | | | | I | 2 - 2 | LC |
| Canopy layer | | | | | | | | | |
| Sessile oak | <i>Quercus petraea</i> | Present | | | | | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Goat willow | <i>Salix caprea</i> | Present | | | | | I | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Bramble | <i>Rubus fruticosus</i> agg. | Present | | | | | I | | LC |
| Rose | <i>Rosa</i> sp. | Present | | | | | I | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |

Table B-38 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 24 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Bluebell | <i>Hyacinthoides non-scripta</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Wood sedge | <i>Carex Sylvatica</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Bracken | <i>Pteridium aquilinum</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Solomon seal | <i>Polygonatum multiflorum</i> | 2 <4% (several individuals) | | | | | I | 8 - 8 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common ivy | <i>Hedera helix</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |

Table B-39 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 25 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-------------------|--------------|-----------------------------|---|---|-----------------|--------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Bluebell | <i>Hyacinthoides non-scripta</i> | 4 (4-10%) | 6 (26-33%) | 2 <4% (several individuals) | | | III | 2 - 6 | LC |
| Dog's mercury | <i>Mercurialis perennis</i> | | | 7 (34-50%) | | | I | 7 - 7 | LC |
| Bracken | <i>Pteridium aquilinum</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Common nettle | <i>Urtica dioica</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| Common ivy | <i>Hedera helix</i> | 7 (34-50%) | 10 (91-100%) | 8 (51-75%) | | | III | 7 - 10 | LC |
| Cleavers | <i>Galium aparine</i> | 5 (11-25%) | 5 (11-25%) | | | | II | 5 - 5 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 4 (4-10%) | | 2 <4% (several individuals) | | | II | 2 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|------------------------------|-------------------------|------------|-----------------------------|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Garlic mustard | <i>Alliaria petiolata</i> | 1 <4% (few individuals) | | 4 (4-10%) | | | II | 1 - 4 | LC |
| Germander speedwell | <i>Veronica chamaedrys</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Cock's foot grass | <i>Dactylis glomerata</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Enchanters nightshade | <i>Circaea lutetiana</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Current | <i>Ribes sp.</i> | | | 2 <4% (several individuals) | | | I | 2 - 2 | LC |
| Blackthorn | <i>Prunus spinosa</i> | | | 5 (11-25%) | | | I | 5 - 5 | LC |
| Aspen | <i>Populus tremula</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 7 (34-50%) | 8 (51-75%) | | | | II | 7 - 8 | LC |
| Wood avens | <i>Geum urbanum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | | | | II | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | | | II | | LC |
| Beech | <i>Fagus sylvatica</i> | Present | | | | | I | | LC |
| Aspen | <i>Populus tremula</i> | | | Present | | | I | | LC |
| Field maple | <i>Acer campestre</i> | | | Present | | | I | | LC |
| Common lime | <i>Tilia x euroapea</i> | Present | | | | | I | | LC |
| Wild cherry | <i>Prunus avium</i> | Present | | | | | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-------------------------|-------------------|---------|---------|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Shrub layer | | | | | | | | | |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |
| Elder | <i>Sambucus nigra</i> | | | Present | | | I | | LC |
| Holly | <i>Ilex aquifolium</i> | | Present | | | | I | | LC |
| Rowan | <i>Sorbus acuparia</i> | | Present | | | | I | | LC |
| Common lime | <i>Tilia x euroapea</i> | | Present | | | | I | | LC |

Table B-40 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 26a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| False oat grass | <i>Arrhenatherum elatius</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Common nettle | <i>Urtica dioica</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Bluebells | <i>Hyacinthoides non-scripta</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Lords and ladies | <i>Arum maculatum</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------|---------------------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Meadow foxtail | <i>Alopecurus pratensis</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Dock | <i>Rumex</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Plait moss | <i>Hypnum</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Remote sedge | <i>Carex remota</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Cleavers | <i>Galium aparine</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Cocksfoot | <i>Dactylis glomerata</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Rose sapling | <i>Rosa</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Herb-robert celticum | <i>Geranium robertianum subsp. celticum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Oak sapling | <i>Quercus</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Canopy layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | III | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | III | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|---------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | V | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |

Table B-41 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 26b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section J: Shedfield to the River Hamble

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-----------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | 5 (11-25%) | | | | 3 <4% (many individuals) | II | 3 - 5 | LC |
| Solomons seal | <i>Polygonatum multiflorum</i> | 4 (4-10%) | 1 <4% (few individuals) | | | | II | 1 - 4 | LC |
| Male fern | <i>Dryopteris filix-mas</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Bluebell | <i>Hyacinthoides non-scripta</i> | 2 <4% (several individuals) | | 5 (11-25%) | 1 <4% (few individuals) | 6 (26-33%) | IV | 1 - 6 | LC |
| Lesser celandine | <i>Ficaria verna</i> | | 6 (26-33%) | 3 <4% (many individuals) | 5 (11-25%) | 7 (34-50%) | IV | 3 - 7 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 3 <4% (many individuals) | | | 1 <4% (few individuals) | | II | 1 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field maple sapling | <i>Acer campestre</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Large forest moss | <i>Brachythecium rutabulum</i> | 2 <4% (several individuals) | 1 <4% (few individuals) | | | | II | 1 - 2 | LC |
| Wood anemone | <i>Anemone nemorosa</i> | 7 (34-50%) | 7 (34-50%) | 8 (51-75%) | 6 (26-33%) | 5 (11-25%) | V | 5 - 8 | LC |
| Holly sapling | <i>Ilex aquifolium</i> | 2 <4% (several individuals) | 2 <4% (several individuals) | 4 (4-10%) | 3 <4% (many individuals) | 3 <4% (many individuals) | V | 2 - 4 | LC |
| Plait moss | <i>Hypnum</i> | 1 <4% (few individuals) | 1 <4% (few individuals) | 3 <4% (many individuals) | 1 <4% (few individuals) | | IV | 1 - 3 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | | | | | 2 <4% (several individuals) | I | 2 - 2 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 3 <4% (many individuals) | 4 (4-10%) | 5 (11-25%) | 5 (11-25%) | 4 (4-10%) | V | 3 - 5 | LC |
| Wild garlic | <i>Allium ursinum</i> | | 3 <4% (many individuals) | 3 <4% (many individuals) | | 1 <4% (few individuals) | III | 1 - 3 | LC |
| Wood medick | <i>Melica uniflora</i> | 4 (4-10%) | 5 (11-25%) | | | | II | 4 - 5 | LC |
| Cleavers | <i>Galium aparine</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Lady fern | <i>Athyrium filix-femina</i> | | | 2 <4% (several individuals) | | | I | 2 - 2 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|--------------------------------------------------------|-----------------------------|-----------------------------|-----------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Holly sapling | <i>Ilex aquifolium</i> | 2 <4% (several individuals) | 2 <4% (several individuals) | 4 (4-10%) | 3 <4% (many individuals) | 3 <4% (many individuals) | V | 2 - 4 | LC |
| Yellow archangel | <i>Lamiastrum galeobOrder Limitson subsp. montanum</i> | | | | 6 (26-33%) | | I | 6 - 6 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Canopy Layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | Present | Present | III | | LC |
| Scot's pine | <i>Pinus sylvestris</i> | | Present | Present | | | II | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | III | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | Present | Present | Present | Present | V | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | Present | Present | Present | Present | V | | LC |
| Hazel | <i>Corylus avellana</i> | Present | Present | Present | Present | | IV | | LC |

Table B-42 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 27 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section K: River Hamble and Lower Upham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-----------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Dog's mercury | <i>Mercurialis perennis</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|--------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Ash sapling | <i>Fraxinus excelsior</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Wood melick | <i>Melica uniflora</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Common nettle | <i>Urtica dioica</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Common ivy | <i>Hedera helix</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| Broad buckler fern | <i>Dryopteris dilatata</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Enchanters' nightshade | <i>Circaea lutetiana</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Herb-robert | <i>Geranium robertianum</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Common cow wheat | <i>Melampyrum pratense</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | NT |
| Remote sedge | <i>Carex remota</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood avens | <i>Geum urbanum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Lords-and-ladies | <i>Arum maculatum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| hawthorn sapling | <i>Crataegus monogyna</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------|---------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Pendulous sedge | <i>Carex pendula</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Hedge woundwort | <i>Stachys sylvatica</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Yew | <i>Taxus baccata</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | | | | | I | | LC |

Table B-43 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 28 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section K: River Hamble and Lower Upham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|--------------------------------|-------------------|-------------------------|-----------|------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Enchanter's nightshade | <i>Circaea lutetiana</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 5 (11-25%) | 1 <4% (few individuals) | | 6 (26-33%) | | III | 1 - 6 | LC |
| False-brome | <i>Brachypodium sylvaticum</i> | | | 4 (4-10%) | | 8 (51-75%) | II | 4 - 8 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------------|------------------------------|-------------------|-------------------------|--------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wild garlic | <i>Allium ursinum</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Pedunculate Oak sapling | <i>Quercus robur</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Primrose | <i>Primula vulgaris</i> | | 6 (26-33%) | 3 <4% (many individuals) | 3 <4% (many individuals) | | III | 3 - 6 | LC |
| Common bent | <i>Agrostis capillaris</i> | | | 5 (11-25%) | | | I | 5 - 5 | LC |
| Garlic mustard | <i>Alliaria petiolata</i> | | | | 8 (51-75%) | | I | 8 - 8 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Herb-robert | <i>Geranium robertianum</i> | 7 (34-50%) | | 5 (11-25%) | | 4 (4-10%) | III | 4 - 7 | LC |
| Wood avens | <i>Geum urbanum</i> | 4 (4-10%) | 4 (4-10%) | | 4 (4-10%) | | III | 4 - 4 | LC |
| Wood speedwell | <i>Veronica montana</i> | 6 (26-33%) | | 4 (4-10%) | | | II | 4 - 6 | LC |
| Dog violet | <i>Viola riviniana</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Wood sedge | <i>Carex sylvatica</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Ivy | <i>Hedera helix</i> | | | | | 6 (26-33%) | I | 6 - 6 | LC |
| Canopy layer | | | | | | | | | |
| Oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | V | | LC |
| Ash | <i>Fraxinus excelsior</i> | | | Present | | | I | | LC |
| Willow sp. | <i>Salix sp.</i> | | Present | | | | I | | LC |
| Shrub layer | | | | | | | | | |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hawthorn | <i>Crataegus monogyna</i> | | Present | Present | Present | Present | IV | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | | | Present | | I | | LC |
| Hazel | <i>Corylus avellana</i> | | | | Present | Present | II | | LC |

Table B-44 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 29 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section K: River Hamble and Lower Upham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-------------------|--------------------------|--------------------------|------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | 9 (76-90%) | 8 (51-75%) | 9 (76-90%) | 8 (51-75%) | 9 (76-90%) | V | 8 - 9 | LC |
| Wood speedwell | <i>Veronica montana</i> | | | 3 <4% (many individuals) | | 4 (4-10%) | II | 3 - 4 | LC |
| Honeysuckle | <i>Lonicera periclymenum</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Hedge woundwort | <i>Stachys sylvatica</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Ground ivy | <i>Glechoma hederacea</i> | 4 (4-10%) | 9 (76-90%) | 5 (11-25%) | 7 (34-50%) | 8 (51-75%) | V | 4 - 9 | LC |
| Yellow flag iris | <i>Iris pseudacorus</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Dogs Mercury | <i>Mercurialis perennis</i> | 8 (51-75%) | | 9 (76-90%) | | 7 (34-50%) | III | 7 - 9 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|--------------------------------------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wood avens | <i>Geum urbanum</i> | 3 <4% (many individuals) | | 4 (4-10%) | 3 <4% (many individuals) | | III | 3 - 4 | LC |
| Bracken | <i>Pteridium aquilinum</i> | | 3 <4% (many individuals) | | 4 (4-10%) | | II | 3 - 4 | LC |
| Yellow archangel | <i>Lamiastrum galeobOrder Limitson subsp. montanum</i> | 4 (4-10%) | | | 1 <4% (few individuals) | 1 <4% (few individuals) | III | 1 - 4 | LC |
| Common feather moss | <i>Kindbergia praelonga</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Pendulous Sedge | <i>Carex pendula</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Bramble agg | <i>Rubus fruticosus agg.</i> | 4 (4-10%) | 7 (34-50%) | 5 (11-25%) | 3 <4% (many individuals) | | IV | 3 - 7 | LC |
| Common nettle | <i>Urtica dioica</i> | | | 6 (26-33%) | 3 <4% (many individuals) | 7 (34-50%) | III | 3 - 7 | LC |
| False wood brome | <i>Brachypodium sylvaticum</i> | 7 (34-50%) | | 4 (4-10%) | 7 (34-50%) | 4 (4-10%) | IV | 4 - 7 | LC |
| Three nerved sandwort | <i>Moehringia trinervia</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Cleavers | <i>Galium aparine</i> | | 5 (11-25%) | | 7 (34-50%) | | II | 5 - 7 | LC |
| Red current | <i>Ribes rubrum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------------|---------------------------------------------|--------------------------|--------------------------|------------|--------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Violet species | <i>Viola sp.</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Herb-robert celticum | <i>Geranium robertianum subsp. celticum</i> | 3 <4% (many individuals) | 5 (11-25%) | 5 (11-25%) | 7 (34-50%) | 6 (26-33%) | V | 3 - 7 | LC |
| Wood anemone | <i>Anemone nemorosa</i> | 1 <4% (few individuals) | 4 (4-10%) | | | | II | 1 - 4 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Blackthorn sapling | <i>Prunus spinosa</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 1 <4% (few individuals) | | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Rough stalked feather moss | <i>Brachythecium rutabulum</i> | | 3 <4% (many individuals) | 4 (4-10%) | | | II | 3 - 3 | LC |
| Canopy layer | | | | | | | | | |
| Alder | <i>Alnus glutinosa</i> | | | Present | Present | Present | III | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | Present | | III | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | | | | III | | LC |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | Present | Present | | Present | IV | | LC |
| Blackthorn | <i>Prunus spinosa</i> | | | Present | | Present | II | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Holly | <i>Ilex aquifolium</i> | | | | Present | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | Present | Present | Present | Present | V | | LC |
| Elder | <i>Sambucus nigra</i> | | | Present | Present | | II | | LC |

Table B-45 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 30 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section K: River Hamble and Lower Upham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|--------------------------|-----------------------------|--------------------------|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common bent | <i>Agrostis capillaris</i> | 7 (34-50%) | 8 (51-75%) | 5 (11-25%) | | | III | 5 - 8 | LC |
| Ribwort plantain | <i>Plantago lanceolata</i> | 3 <4% (many individuals) | 1 <4% (few individuals) | 4 (4-10%) | | | III | 1 - 4 | LC |
| Common fleabane | <i>Pulicaria dysenterica</i> | 7 (34-50%) | 8 (51-75%) | | | | II | 7 - 8 | LC |
| Cats ear | <i>Hypochaeris radicata</i> | 3 <4% (many individuals) | 2 <4% (several individuals) | 3 <4% (many individuals) | | | III | 2 - 3 | LC |
| Selfheal | <i>Prunella vulgaris</i> | 4 (4-10%) | 1 <4% (few individuals) | 5 (11-25%) | | | III | 1 - 5 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | | | III | 4 - 4 | LC |
| Daisy | <i>Bellis perennis</i> | 3 <4% (many individuals) | 2 <4% (several individuals) | 4 (4-10%) | | | III | 2 - 4 | LC |
| Annual pearlwort | <i>Sagina apetala</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------------|------------------------------|-----------------------------|--------------------------|------------|-----------|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Greater bird's foot trefoil | <i>Lotus pedunculatus</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Trailing St John's wort | <i>Hypericum humifusum</i> | 3 <4% (many individuals) | | | | | I | 1 - 1 | LC |
| Sheep sorrel | <i>Rumex acetosella</i> | | 1 <4% (few individuals) | | | | I | 3 - 3 | LC |
| Compact rush | <i>Juncus conglomeratus</i> | | 1 <4% (few individuals) | | | | I | 1 - 2 | LC |
| Red clover | <i>Trifolium pratense</i> | 2 <4% (several individuals) | 1 <4% (few individuals) | | | | II | 5 - 5 | LC |
| Dog violet species | <i>Viola sp.</i> | 2 <4% (several individuals) | 3 <4% (many individuals) | | | | II | 2 - 3 | LC |
| Perennial Rye grass | <i>Lolium perenne</i> | 5 (11-25%) | 4 (4-10%) | 7 (34-50%) | | | III | 4 - 7 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Crested dog's tail | <i>Cynosurus cristatus</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Common centaury | <i>Centaureum erythraea</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| White clover | <i>Trifolium repens</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Sweet vernal grass | <i>Anthoxanthum odoratum</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |

Table B-46 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 31 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section K: River Hamble and Lower Upham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------------|--------------------------------|-----------------------------|-----------------------------|--------------------------|-------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Rough meadow grass | <i>Poa trivialis</i> | 10 (91-100%) | 9 (76-90%) | 9 (76-90%) | 5 (11-25%) | 9 (76-90%) | V | 5-10 | LC |
| Ramsons | <i>Allium ursinum</i> | | | | 8 (51-75%) | | I | 8-8 | LC |
| Horse chestnut sapling | <i>Aesculus hippocastanum</i> | 2 <4% (several individuals) | | | | | I | 2-2 | LC |
| Cocksfoot grass | <i>Dactylis glomerata</i> | | 6 (26-33%) | 5 (11-25%) | | 7 (34-50%) | III | 5-7 | LC |
| Pedunculate oak sapling | <i>Quercus robur</i> | 3 <4% (many individuals) | | 5 (11-25%) | 5 (11-25%) | 2 <4% (several individuals) | IV | 2-5 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | 3 <4% (many individuals) | | 3 <4% (many individuals) | IV | 3-3 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | | | | 1 <4% (few individuals) | | I | 1-1 | LC |
| Common sorrel | <i>Rumex acetosella</i> | | 3 <4% (many individuals) | 3 <4% (many individuals) | | | II | 3-3 | LC |
| Butcher's broom | <i>Ruscus aculeatus</i> | 4 (4-10%) | 2 <4% (several individuals) | 5 (11-25%) | | | III | 2-5 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | | | | 1 <4% (few individuals) | | I | 1-1 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | | | | | 5 (11-25%) | I | 5-5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status | |
|---------------------|------------------------------|-----------------------------|---------|---------|---------|---------|-----------------|-------|----------------|----|
| | | 1 | 2 | 3 | 4 | 5 | | | | |
| Meadow buttercup | <i>Ranunculus acris</i> | 2 <4% (several individuals) | | | | | 5 (11-25%) | II | 2-5 | LC |
| Canopy layer | | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | | Present | | | III | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | | V | | LC |
| Shrub layer | | | | | | | | | | |
| Field maple | <i>Acer campestre</i> | | | | Present | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | | | | Present | | | I | | LC |
| Dog rose | <i>Rosa sp.</i> | | Present | Present | Present | | | III | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | | Present | Present | Present | | | III | | LC |
| Holly | <i>Ilex aquifolium</i> | | Present | Present | Present | | | III | | LC |
| Blackthorn | <i>Prunus spinosa</i> | | | | | Present | | I | | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | | Present | Present | Present | Present | | IV | | LC |

Table B-47 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 32 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section K: River Hamble and Lower Upham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status | |
|--------------------|------------|-------------------|---|---|---|---|-----------------|-------|----------------|--|
| | | 1 | 2 | 3 | 4 | 5 | | | | |
| Field layer | | | | | | | | | | |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|--------------------------------|--------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| False-brome | <i>Brachypodium sylvaticum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Meadow fescue | <i>Festuca pratensis</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Meadow foxtail | <i>Alopecurus pratensis</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Upright hedge parsley | <i>Torilis japonica</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Wild privet | <i>Ligustrum vulgare</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Canopy layer | | | | | | | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | | | | | I | | LC |
| Goat willow | <i>Salix caprea</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Leylandi cypress | <i>Cuprocyparis leylandii</i> | Present | | | | | I | | LC |
| Wild privet | <i>Lingustrum vulgare</i> | Present | | | | | I | | LC |
| Dog rose | <i>Rosa canina</i> | Present | | | | | I | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Bramble | <i>Rubus fruticosus</i> agg. | Present | | | | | I | | LC |

Table B-48 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 33 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section K: River Hamble and Lower Upham

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|------------------------------------|--------------------------|--------------------------|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Herb-Robert | <i>Geranium robertianum</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Primrose | <i>Primula vulgaris</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Ash | <i>Fraxinus excelsior saplings</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Hairy brome | <i>Bromopsis ramosa</i> | | 5 (11-25%) | | | | I | 5 - 5 | LC |
| Hawthorn sapling | <i>Crataegus monogyna sapling</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Solomons seal | <i>Polygonatum multiflorum</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Violet sp. | <i>Viola sp.</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Enchanters nightshade | <i>Circaea lutetiana</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Butchers-broom | <i>Ruscus aculeatus</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Lords and ladies | <i>Arum maculatum</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Wood avens | <i>Geum urbanum</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| False-brome | <i>Brachypodium sylvaticum</i> | 6 (26-33%) | 1 <4% (few individuals) | | | | II | 1 - 6 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 3 <4% (many individuals) | 1 <4% (few individuals) | | | | II | 1 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-------------------------------------|--------------------------|-------------------------|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Grey sedge | <i>Carex divulsa subsp. divulsa</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Ivy | <i>Hedera helix</i> | 8 (51-75%) | 8 (51-75%) | | | | II | 8 - 8 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 9 (76-90%) | 8 (51-75%) | | | | II | 8 - 9 | LC |
| Wild privet sapling | <i>Ligustrum vulgare sapling</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Remote sedge | <i>Carex remota</i> | 1 <4% (few individuals) | 1 <4% (few individuals) | | | | II | 1 - 1 | LC |
| Canopy layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | | | | II | | LC |
| Oak | <i>Quercus robur</i> | Present | Present | | | | II | | LC |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | Present | | | | II | | LC |
| Field maple | <i>Acer campestre</i> | | Present | | | | I | | LC |
| Wild privet | <i>Ligustrum vulgare</i> | Present | | | | | I | | LC |
| Dog rose | <i>Rosa canina</i> | Present | | | | | I | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | Present | | | | II | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | Present | | | | II | | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | | Present | | | | I | | LC |

Table B-49 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 34a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-----------------------------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Wood dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | 3 <4% (many individuals) | 3 <4% (many individuals) | 2 <4% (several individuals) | V | 2 - 3 | LC |
| Wood sedge | <i>Carex sylvatica</i> | | 5 (11-25%) | 3 <4% (many individuals) | 4 (4-10%) | | III | 3 - 5 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 1 <4% (few individuals) | 4 (4-10%) | 1 <4% (few individuals) | 5 (11-25%) | | IV | 1 - 5 | LC |
| Figwort | <i>Scrophularia nodosa</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | | | | | 7 (34-50%) | I | 7 - 7 | LC |
| Cock's-foot | <i>Dactylis glomerata</i> | 5 (11-25%) | 1 <4% (few individuals) | 1 <4% (few individuals) | | | III | 1 - 5 | LC |
| Remote sedge | <i>Carex remota</i> | | 5 (11-25%) | | 1 <4% (few individuals) | | II | 1 - 5 | LC |
| Grey sedge | <i>Carex divulsa subsp. divulsa</i> | | | | | 5 (11-25%) | I | 5 - 5 | LC |
| Rough meadow-grass | <i>Poa trivialis</i> | 5 (11-25%) | | 8 (51-75%) | 3 <4% (many individuals) | 6 (26-33%) | IV | 3 - 8 | LC |
| Tufted hairgrass | <i>Deschampsia cespitosa subsp. cespitosa</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Primrose | <i>Primula vulgaris</i> | | | 2 <4% (several individuals) | | | I | 2 - 2 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------------|---------------------------------------------|-----------------------------|--------------------------|-----------------------------|-----------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common Ivy | <i>Hedera helix subsp. helix</i> | | 4 (4-10%) | 3 <4% (many individuals) | 5 (11-25%) | 6 (26-33%) | IV | 3 - 6 | LC |
| Butchers-broom | <i>Ruscus aculeatus</i> | | | | | 5 (11-25%) | I | 5 - 5 | LC |
| Chickweed | <i>Stellaria media</i> | 2 <4% (several individuals) | | 2 <4% (several individuals) | | | II | 2 - 2 | LC |
| Dog violet | <i>Viola riviniana</i> | | 3 <4% (many individuals) | | 2 <4% (several individuals) | | II | 2 - 3 | LC |
| Germander speedwell | <i>Veronica chamaedrys</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | | | | 5 (11-25%) | | I | 5 - 5 | LC |
| Herb-robert | <i>Geranium robertianum subsp. celticum</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Blackthorn | <i>Prunus spinosa</i> | | 4 (4-10%) | | | 5 (11-25%) | II | 4 - 5 | LC |
| Enchanters' nightshade | <i>Circaea lutetiana</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Common Dog rose sapling | <i>Rosa canina</i> | | | | 5 (11-25%) | | I | 5 - 5 | LC |
| European gooseberry | <i>Ribes uva-crispa</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Broad-leaved willowherb | <i>Epilobium montanum</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| Pedunculate oak sapling | <i>Quercus robur</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Hawthorn sapling | <i>Crataegus monogyna</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Canopy layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | | | III | | LC |
| Oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | V | | LC |
| Shrub layer | | | | | | | | | |
| Blackthorn | <i>Prunus spinosa</i> | Present | Present | | Present | Present | IV | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | Present | Present | Present | Present | V | | LC |
| Field maple | <i>Acer campestre</i> | Present | | | | | I | | LC |
| Dog rose | <i>Rosa canina</i> | | | | Present | | I | | LC |

Table B-50 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 34b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|---------------------------------------------|--------------------------|------------|------------|------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Bracken | <i>Pteridium aquilinum subsp. aquilinum</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | 3 <4% (many individuals) | 5 (11-25%) | | | 3 <4% (many individuals) | III | 3 - 5 | LC |
| Betony | <i>Stachys officinalis</i> | | | 5 (11-25%) | 5 (11-25%) | | II | 5 - 5 | LC |
| Grey sedge | <i>Carex divulsa subsp. divulsa</i> | | | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | III | 4 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------|-----------------------------------------------|-----------------------------|-----------------------------|--------------------------|------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Remote sedge | <i>Carex remota</i> | 4 (4-10%) | 6 (26-33%) | | | | II | 4 - 6 | LC |
| Cocks-foot | <i>Dactylis glomerata</i> | 3 <4% (many individuals) | | 4 (4-10%) | 5 (11-25%) | 4 (4-10%) | IV | 3 - 5 | LC |
| Bitter Vetch | <i>Lathyrus linifolius</i> | | | 3 <4% (many individuals) | 5 (11-25%) | | II | 3 - 5 | NT |
| Wood sedge | <i>Carex sylvatica</i> | | | 3 <4% (many individuals) | | 4 (4-10%) | II | 3 - 4 | LC |
| Ivy | <i>Hedera helix subsp. helix</i> | | 7 (34-50%) | | | 8 (51-75%) | II | 7 - 8 | LC |
| Rough meadow-grass | <i>Poa trivialis</i> | | | 5 (11-25%) | | | I | 5 - 5 | LC |
| False oat-grass | <i>Arrhenatherum elatius</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Wood aven | <i>Geum urbanum</i> | 2 <4% (several individuals) | 2 <4% (several individuals) | | | 3 <4% (many individuals) | III | 2 - 3 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 6 (26-33%) | | 5 (11-25%) | 4 (4-10%) | 6 (26-33%) | IV | 4 - 6 | LC |
| Herb-robert celticar | <i>Geranium robertianum subsp. celticum</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | | | 3 <4% (many individuals) | III | 3 - 3 | LC |
| Tufted hairgrass | <i>Deschampsia cespitosa subsp. cespitosa</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Greater stitchwort | <i>Stellaria holostea</i> | 1 <4% (few individuals) | | 1 <4% (few individuals) | 5 (11-25%) | 4 (4-10%) | IV | 1 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wood dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | | 2 <4% (several individuals) | 2 <4% (several individuals) | IV | 2 - 3 | LC |
| Common bent | <i>Agrostis capillaris</i> | | | 2 <4% (several individuals) | 4 (4-10%) | | II | 2 - 4 | LC |
| Dog violet | <i>Viola riviniana</i> | 2 <4% (several individuals) | 3 <4% (many individuals) | | | | II | 2 - 3 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |
| Ground ivy | <i>Glechoma hederacea</i> | | 2 <4% (several individuals) | | | | I | 2 - 2 | LC |
| Redshank | <i>Persicaria maculosa</i> | | 2 <4% (several individuals) | | | | I | 2 - 2 | LC |
| Germander speedwell | <i>Veronica chamaedrys</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Black Bryony | <i>Tamus communis</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Dog rose | <i>Rosa canina</i> | | 5 (11-25%) | | | | I | 5 - 5 | LC |
| Common honeysuckle | <i>Lonicera periclymenum</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| Wood meadow grass | <i>Poa nemoralis</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Hawthorn sapling | <i>Crataegus monogyna</i> | 1 <4% (few individuals) | | 4 (4-10%) | | 6 (26-33%) | III | 1 - 6 | LC |
| Blackthorn sapling | <i>Prunus spinosa</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Canopy layer | | | | | | | | | |
| Oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | V | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | Present | Present | Present | Present | V | | LC |
| Field maple | <i>Acer campestre</i> | Present | Present | Present | Present | Present | V | | LC |
| Cherry sp. | <i>Prunus sp.</i> | Present | Present | Present | Present | Present | V | | LC |

Table B-51 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 35 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-----------------------------|--------------------------|------------|------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Dog's mercury | <i>Mercurialis perennis</i> | 5 (11-25%) | 3 <4% (many individuals) | | | 4 (4-10%) | III | 3 - 5 | LC |
| Hedge woundwort | <i>Stachys sylvatica</i> | | 3 <4% (many individuals) | | | 4 (4-10%) | II | 3 - 4 | LC |
| Common ivy | <i>Hedera helix subsp. helix</i> | 9 (76-90%) | 9 (76-90%) | 9 (76-90%) | 8 (51-75%) | 9 (76-90%) | V | 8 - 9 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | 4 (4-10%) | 5 (11-25%) | 6 (26-33%) | 7 (34-50%) | 2 <4% (several individuals) | V | 2 - 7 | LC |
| Giant fescue | <i>Festuca gigantea</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 2 <4% (several individuals) | 3 <4% (many individuals) | | | | II | 2 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|---------------------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Bramble | <i>Rubus fruticosus agg.</i> | 4 (4-10%) | 4 (4-10%) | 5 (11-25%) | | 5 (11-25%) | IV | 4 - 5 | LC |
| Remote sedge | <i>Carex remota</i> | 2 <4% (several individuals) | 3 <4% (many individuals) | | | 5 (11-25%) | III | 2 - 5 | LC |
| Wood millet | <i>Milium effusum</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Common Dog-violet | <i>Viola riviniana subsp. Minor</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Wood avens | <i>Geum urbanum</i> | 2 <4% (several individuals) | | | 3 <4% (many individuals) | | II | 2 - 3 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 3 <4% (many individuals) | 4 (4-10%) | | | 2 <4% (several individuals) | III | 2 - 4 | LC |
| Enchanter's nightshade | <i>Circaea lutetiana</i> | | 4 (4-10%) | | | 3 <4% (many individuals) | II | 3 - 4 | LC |
| Wood spurge | <i>Euphorbia amygdaloides</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Herb-robert celticum | <i>Geranium robertianum subsp. celticum</i> | | | 7 (34-50%) | 5 (11-25%) | 3 <4% (many individuals) | III | 3 - 7 | LC |
| Garlic Mustard | <i>Alliaria petiolata</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | | 4 (4-10%) | | III | 3 - 4 | LC |
| Black bryony | <i>Tamus communis</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Common honeysuckle | <i>Lonicera periclymenum</i> | | | 6 (26-33%) | 3 <4% (many individuals) | | II | 3 - 6 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------------|---------------------------|-----------------------------|------------|-----------|--------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wild Privet | <i>Ligustrum vulgare</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Cleavers | <i>Galium aparine</i> | 5 (11-25%) | | | 5 (11-25%) | 5 (11-25%) | III | 5 - 5 | LC |
| Rough meadow-grass | <i>Poa trivialis</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Common nettle | <i>Urtica dioica</i> | | | | | 2 <4% (several individuals) | I | 2 - 2 | LC |
| Common Dog rose sapling | <i>Rosa canina</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Ground-ivy | <i>Glechoma hederacea</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | | | 4 (4-10%) | 4 (4-10%) | | II | 4 - 4 | LC |
| Field maple sapling | <i>Acer campestre</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Blackthorn sapling | <i>Prunus spinosa</i> | | 5 (11-25%) | 4 (4-10%) | | 4 (4-10%) | III | 4 - 5 | LC |
| Hawthorn sapling | <i>Crataegus monogyna</i> | 2 <4% (several individuals) | | 4 (4-10%) | | 4 (4-10%) | III | 2 - 4 | LC |
| Holly sapling | <i>Ilex aquifolium</i> | | | | 5 (11-25%) | | I | 5 - 5 | LC |
| Canopy layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | Present | Present | V | | LC |
| Pedunculate oak | <i>Quercus robur</i> | | | Present | Present | Present | III | | LC |
| Yew | <i>Taxus baccata</i> | | Present | | | | I | | LC |
| Shrub layer | | | | | | | | | |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Hazel | <i>Corylus avellana</i> | Present | | Present | Present | Present | IV | | LC |
| Blackthorn | <i>Prunus spinosa</i> | Present | Present | | | | II | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | Present | Present | Present | Present | V | | LC |
| Field maple | <i>Acer campestre</i> | Present | Present | Present | Present | Present | IV | | LC |
| Ash | <i>Fraxinus excelsior</i> | | | Present | | | I | | LC |
| Holly | <i>Ilex aquifolium</i> | | | | Present | Present | II | | LC |

Table B-52 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 36 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-------------------|-------------------------|--------------------------|------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Bramble | <i>Rubus fruticosus agg.</i> | 8 (51-75%) | | 7 (34-50%) | 5 (11-25%) | 4 (4-10%) | IV | 4 - 8 | LC |
| Wood dock | <i>Rumex sanguineus</i> | | 1 <4% (few individuals) | 3 <4% (many individuals) | 4 (4-10%) | | III | 1 - 4 | LC |
| False brome | <i>Brachypodium sylvaticum</i> | 6 (26-33%) | 8 (51-75%) | 6 (26-33%) | 7 (34-50%) | 7 (34-50%) | V | 6 - 8 | LC |
| Ivy | <i>Hedera helix subsp. helix</i> | 7 (34-50%) | 8 (51-75%) | 8 (51-75%) | 7 (34-50%) | 8 (51-75%) | V | 7 - 8 | LC |
| Sedge sp. | <i>Carex sp.</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Wood anemone | <i>Anemone nemorosa</i> | | 1 <4% (few individuals) | 4 (4-10%) | | | II | 1 - 4 | LC |
| Remote sedge | <i>Carex remota</i> | | 4 (4-10%) | 1 <4% (few individuals) | 7 (34-50%) | | III | 1 - 7 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|---------------------------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Herb-robert celticar | <i>Geranium robertianum subsp. celticum</i> | | | | 7 (34-50%) | 7 (34-50%) | II | 7 - 7 | LC |
| Viola sp. | <i>Viola sp.</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Enchanter's nightshade | <i>Circaea lutetiana</i> | | | 4 (4-10%) | 4 (4-10%) | 3 <4% (many individuals) | III | 3 - 4 | LC |
| Germander speedwell | <i>Veronica chamaedrys</i> | 1 <4% (few individuals) | | | 3 <4% (many individuals) | | II | 1 - 3 | LC |
| Wood avens | <i>Geum urbanum</i> | | 1 <4% (few individuals) | 4 (4-10%) | 3 <4% (many individuals) | 3 <4% (many individuals) | IV | 1 - 4 | LC |
| Aroid sp. | <i>Arum maculatum</i> | | 1 <4% (few individuals) | 1 <4% (few individuals) | 3 <4% (many individuals) | | III | 1 - 3 | LC |
| Wood sedge | <i>Carex sylvatica</i> | | 5 (11-25%) | 4 (4-10%) | 4 (4-10%) | | III | 4 - 5 | LC |
| Ash | <i>Fraxinus excelsior</i> | | 4 (4-10%) | | 1 <4% (few individuals) | | II | 1 - 4 | LC |
| Pedunculate oak | <i>Quercus robur</i> | 5 (11-25%) | | | 1 <4% (few individuals) | 1 <4% (few individuals) | III | 1 - 5 | LC |
| Hawthorn | <i>Crataegus monogyna</i> | 1 <4% (few individuals) | 4 (4-10%) | | | | II | 1 - 4 | LC |
| Holly | <i>Ilex aquifolium</i> | 1 <4% (few individuals) | | | 1 <4% (few individuals) | 1 <4% (few individuals) | III | 1 - 1 | LC |
| Canopy layer | | | | | | | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | Present | Present | V | | LC |
| Beech | <i>Fagus sylvatica</i> | | | Present | | | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | V | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | Present | Present | Present | IV | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | Present | | | | II | | LC |
| Goat willow | <i>Salix caprea</i> | Present | | | | | I | | LC |
| Hazel | <i>Corylus avellana</i> | Present | Present | | Present | | III | | LC |

Table B-53 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 37a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-----------------------------|-----------------------------|---|---|---|---|-----------------|---------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Field bindweed | <i>Convolvulus arvensis</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Perennial rye grass | <i>Lolium perenne</i> | 10 (91-100%) | | | | | I | 10 - 10 | LC |
| Timothy | <i>Phleum pratense</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Clustered Dock | <i>Rumex conglomeratus</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|--------------------------|-----------------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Greater plantain | <i>Plantago major</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Spear thistle | <i>Cirsium vulgare</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |

Table B-54 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 37b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------------------|--------------------------|-----------------------------|-----------------------------|--------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| White clover | <i>Trifolium repens</i> | 4 (4-10%) | 7 (34-50%) | | | 5 (11-25%) | III | 4 - 7 | LC |
| Perennial rye grass | <i>Lolium perenne</i> | 9 (76-90%) | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | 9 (76-90%) | V | 8 - 9 | LC |
| Timothy | <i>Phleum pratense</i> | 3 <4% (many individuals) | 4 (4-10%) | | | | II | 3 - 4 | LC |
| Broadleaved dock | <i>Rumex obtusifolius var. transiens</i> | 1 <4% (few individuals) | | 2 <4% (several individuals) | 3 <4% (many individuals) | | III | 1 - 3 | LC |
| Greater plantain | <i>Plantago major</i> | 3 <4% (many individuals) | 2 <4% (several individuals) | | | | II | 2 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|-------------------------------------|-------------------|-------------------------|-----------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Creeping buttercup | <i>Ranunculus repens</i> | 4 (4-10%) | 5 (11-25%) | 8 (51-75%) | 6 (26-33%) | 6 (26-33%) | V | 4 - 8 | LC |
| Creeping Cinquefoil | <i>Potentilla reptans</i> | | | | | 4 (4-10%) | I | 4 - 4 | LC |
| Selfheal | <i>Prunella vulgaris</i> | | | | 4 (4-10%) | | I | 4 - 4 | LC |
| Wood dock | <i>Rumex sanguineus</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Creeping bent | <i>Agrostis stolonifera</i> | | 5 (11-25%) | | | | I | 5 - 5 | LC |
| Fat hen | <i>Chenopodium album agg.</i> | | | | | 4 (4-10%) | I | 4 - 5 | LC |
| Smaller cat's tail | <i>Phleum bertolonii</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 5 (11-25%) | | | | | I | 5 - 5 | LC |
| Hairy sedge | <i>Carex hirta</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Spear thistle | <i>Cirsium vulgare</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Crane's-bill | <i>Geranium</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Creeping thistle | <i>Cirsium arvense var. incanum</i> | | | 2 <4% (several individuals) | | | I | 2 - 2 | LC |

Table B-55 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 38 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|-------------------------------------------|--------------------------|--------------------------|-----------------------------|------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | V | 8 - 8 | LC |
| Solomons seal | <i>Polygonatum multiflorum</i> | 5 (11-25%) | 5 (11-25%) | 5 (11-25%) | 4 (4-10%) | 5 (11-25%) | V | 4 - 5 | LC |
| Wood melick | <i>Melica uniflora</i> | | | | 7 (34-50%) | 5 (11-25%) | II | 5 - 7 | LC |
| Bluebell sp. | <i>Hyacinthoides sp.</i> | 5 (11-25%) | | 2 <4% (several individuals) | | | II | 2 - 5 | LC |
| Butcher's broom sp. | <i>Ruscus sp.</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 3 <4% (many individuals) | | 1 <4% (few individuals) | | | II | 1 - 3 | LC |
| Dogs Mercury | <i>Mercurialis perennis</i> | | 3 <4% (many individuals) | | 5 (11-25%) | 5 (11-25%) | III | 3 - 5 | LC |
| Wood avens | <i>Geum urbanum</i> | 4 (4-10%) | 5 (11-25%) | | 5 (11-25%) | 5 (11-25%) | IV | 4 - 5 | LC |
| Germander speedwell | <i>Veronica chamaedrys</i> | | 5 (11-25%) | | | | I | 5 - 5 | LC |
| Wood dock | <i>Rumex sanguineus</i> | | | 3 <4% (many individuals) | 4 (4-10%) | 4 (4-10%) | III | 3 - 4 | LC |
| Enchanter's nightshade | <i>Circaea lutetiana</i> | | 3 <4% (many individuals) | 5 (11-25%) | 5 (11-25%) | 6 (26-33%) | IV | 3 - 6 | LC |
| hawthorn sapling | <i>Crataegus monogyna subsp. azarella</i> | 3 <4% (many individuals) | | 4 (4-10%) | | | II | 3 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-------------------------|---------------------------------------------|-------------------------|------------|-------------------------|-----------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Bramble agg | <i>Rubus fruticosus agg.</i> | 5 (11-25%) | 5 (11-25%) | 4 (4-10%) | | | III | 4 - 5 | LC |
| Wood millet | <i>Milium effusum</i> | | | | 5 (11-25%) | 4 (4-10%) | II | 4 - 5 | LC |
| Garlic mustard | <i>Alliaria petiolata</i> | | | | 1 <4% (few individuals) | 4 (4-10%) | II | 1 - 4 | LC |
| Wood meadow grass | <i>Poa nemoralis</i> | 4 (4-10%) | | | | | I | 4 - 4 | LC |
| Cleavers | <i>Galium aparine</i> | | 6 (26-33%) | | | 5 (11-25%) | II | 5 - 6 | LC |
| Common ragwort | <i>Senecio jacobaea</i> | | | | 1 <4% (few individuals) | 1 <4% (few individuals) | II | 1 - 1 | LC |
| common dog-violet | <i>Viola riviniana</i> | | | | 7 (34-50%) | | I | 7 - 7 | LC |
| Herb-robert celticum | <i>Geranium robertianum subsp. celticum</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Wild garlic | <i>Allium sativum</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | | | | 1 <4% (few individuals) | | I | 1 - 1 | LC |
| Field maple sapling | <i>Acer campestre</i> | | | | 2 <4% (several individuals) | 5 (11-25%) | II | 2 - 5 | LC |
| Pedunculate oak sapling | <i>Quercus robur</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Elder sapling | <i>Sambucus nigra</i> | | | | 2 <4% (several individuals) | | I | 2 - 2 | LC |
| Canopy layer | | | | | | | | | |
| Beech | <i>Fagus sylvatica</i> | Present | Present | Present | | | III | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | | | III | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | Present | | | III | | LC |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | Present | Present | Present | Present | V | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | Present | Present | Present | Present | V | | LC |
| Elder | <i>Sambucus nigra</i> | | | Present | | | I | | LC |

Table B-56 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 39a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------|--------------------------|-------------------|-----|-----|-----|-----|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Floating sweet grass | <i>Glyceria fluitans</i> | 10 (91-100%) | N/A | N/A | N/A | N/A | I | 10-10 | LC |

Table B-57 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 39b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|-------------------|-----|-----|-----|-----|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Hogweed | <i>Heracleum sphondylium</i> | 4 (4-10%) | N/A | N/A | N/A | N/A | I | 4-4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|-------------------------------------|-------------------------|-----|-----|-----|-----|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Water figwort | <i>Scrophularia auriculata</i> | 4 (4-10%) | N/A | N/A | N/A | N/A | I | 4-4 | LC |
| Wild Angelica | <i>Angelica sylvestris</i> | 5 (11-25%) | N/A | N/A | N/A | N/A | I | 5-5 | LC |
| Clustered dock | <i>Rumex conglomeratus</i> | 6 (26-33%) | N/A | N/A | N/A | N/A | I | 6-6 | LC |
| Common nettle | <i>Urtica dioica</i> | 5 (11-25%) | N/A | N/A | N/A | N/A | I | 5-5 | LC |
| Branched bur-reed | <i>Sparganium erectum</i> | 6 (26-33%) | N/A | N/A | N/A | N/A | I | 6-6 | LC |
| Common comfrey | <i>Symphytum officinale</i> | 5 (11-25%) | N/A | N/A | N/A | N/A | I | 5-5 | LC |
| Greater pond sedge | <i>Carex riparia</i> | 5 (11-25%) | N/A | N/A | N/A | N/A | I | 5-5 | LC |
| Himalayan balsam | <i>Impatiens glandulifera</i> | 5 (11-25%) | N/A | N/A | N/A | N/A | I | 5-5 | LC |
| Hedge bindweed | <i>Calystegia sepium</i> | 6 (26-33%) | N/A | N/A | N/A | N/A | I | 6-6 | LC |
| Cleavers | <i>Galium aparine</i> | 4 (4-10%) | N/A | N/A | N/A | N/A | I | 4-4 | LC |
| Hedge woundwort | <i>Stachys sylvatica</i> | 4 (4-10%) | N/A | N/A | N/A | N/A | I | 4-4 | LC |
| Reed canary grass | <i>Phalaris arundinacea</i> | 5 (11-25%) | N/A | N/A | N/A | N/A | I | 5-5 | LC |
| Hemlock | <i>Conium maculatum</i> | 6 (26-33%) | N/A | N/A | N/A | N/A | I | 6-6 | LC |
| White dead nettle | <i>Lamium album</i> | 4 (4-10%) | N/A | N/A | N/A | N/A | I | 4-4 | LC |
| Creeping thistle | <i>Cirsium arvense var. incanum</i> | 1 <4% (few individuals) | N/A | N/A | N/A | N/A | I | 1-1 | LC |
| False oat grass | <i>Arrhenatherum elatius</i> | 4 (4-10%) | N/A | N/A | N/A | N/A | I | 4-4 | LC |

Table B-58 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 39c within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------------------------------|--------------------------|--------------------------|--------------------------|------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Greater pond sedge | <i>Glyceria fluitans</i> | 9 (76-90%) | 9 (76-90%) | | 8 (51-75%) | 10 (91-100%) | IV | 8-10 | LC |
| Hard rush | <i>Juncus inflexus</i> | | 5 (11-25%) | 6 (26-33%) | 8 (51-75%) | | III | 5-8 | LC |
| Bittersweet | <i>Solanum dulcamara</i> var. <i>marinum</i> | 4 (4-10%) | | | | | I | 4-4 | LC |
| False oat grass | <i>Arrhenatherium elatius</i> | | 5 (11-25%) | 5 (11-25%) | | | II | 5-5 | LC |
| Water figwort | <i>Scrophularia auriculata</i> | | | 3 <4% (many individuals) | | | I | 3-3 | LC |
| Amphibious bistort | <i>Persicaria amphibia</i> | 3 <4% (many individuals) | | | 4 (4-10%) | 3 <4% (many individuals) | III | 3-4 | LC |
| Cleavers | <i>Galium aparine</i> | 4 (4-10%) | | 4 (4-10%) | | | II | 4-4 | LC |
| Clustered dock | <i>Rumex conglomeratus</i> | | 3 <4% (many individuals) | 5 (11-25%) | 4 (4-10%) | | III | 3-5 | LC |
| Compact rush | <i>Juncus conglomeratus</i> var. <i>subuliflorus</i> | | | 5 (11-25%) | 6 (26-33%) | | II | 5-6 | LC |
| Common comfrey | <i>Symphytum officinale</i> | | | | | 1 <4% (few individuals) | I | 1-1 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------------|------------------------------------------------------|-------------------------|-----------|-------------------------|-------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common fleabane | <i>Pulicaria dysenterica</i> | 5 (11-25%) | | | | | I | 5-5 | LC |
| Tufted hair grass | <i>Deschampsia cespitosa</i> subsp. <i>cespitosa</i> | | | | 4 (4-10%) | 5 (11-25%) | II | 4-5 | LC |
| Rush | <i>Juncaceae</i> | 1 <4% (few individuals) | 4 (4-10%) | | 4 (4-10%) | | III | 1-4 | LC |
| Creeping thistle | <i>Cirsium arvense</i> var. <i>incanum</i> | 1 <4% (few individuals) | | | 1 <4% (few individuals) | | II | 1-1 | LC |
| Wild angelica | <i>Angelica sylvestris</i> | 5 (11-25%) | | | | | I | 5-5 | LC |
| Perforate St John's wort | <i>Hypericum perforatum</i> | | | 1 <4% (few individuals) | | | I | 1-1 | LC |
| Meadow vetchling | <i>Lathyrus pratensis</i> | | | 5 (11-25%) | 4 (4-10%) | | II | 4-5 | LC |
| Hairy sedge | <i>Carex hirta</i> | | | 3 | | | I | 3-3 | LC |
| Cut-leaved cranesbill | <i>Geranium dissectum</i> | | | 1 <4% (few individuals) | | | I | 1-1 | LC |
| Meadowsweet | <i>Filipendula ulmaria</i> | | | | 4 (4-10%) | | I | 4-4 | LC |

Table B-59 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 39d within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------|-------------------|--------------|--------------|--------------|--------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Greater pond sedge | <i>Carex riparia</i> | 10 (91-100%) | 10 (91-100%) | 10 (91-100%) | 10 (91-100%) | 10 (91-100%) | V | 10-10 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Amphibious bistort | <i>Persicaria amphibia</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | 4 (4-10%) | 1 <4% (few individuals) | 4 (4-10%) | V | 1-4 | LC |
| Clustered dock | <i>Rumex conglomeratus</i> | | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | IV | 1-1 | LC |
| Soft rush | <i>Juncus effusus</i> | | 4 (4-10%) | | | | I | 4-4 | LC |

Table B-60 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 39e within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|---------------------------------|-------------------|------------|--------------------------|------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Yorkshire fog | <i>Holcus lanatus</i> | 7 (34-50%) | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | 5 (11-25%) | V | 5-8 | LC |
| Sweet vernal grass | <i>Anthoxanthum odoratum</i> | 5 (11-25%) | | | | | I | 5-5 | LC |
| Soft brome | <i>Bromus hordeaceus</i> | 4 (4-10%) | 4 (4-10%) | 3 <4% (many individuals) | | | III | 3-4 | LC |
| Crested dogs tail | <i>Cynosurus cristatus</i> | 4 (4-10%) | 4 (4-10%) | | | | II | 4-4 | LC |
| Tall fescue | <i>Schedonurus arundinaceus</i> | | 5 (11-25%) | 4 (4-10%) | | | II | 4-5 | LC |
| Italian rye grass | <i>Lolium multiflorum</i> | | 4 (4-10%) | | | | I | 4-4 | LC |
| Perennial rye grass | <i>Lolium perenne</i> | | 6 (26-33%) | 4 (4-10%) | | | II | 4-6 | LC |
| Meadow barley | <i>Hordeum secalinum</i> | | 7 (34-50%) | 5 (11-25%) | 6 (26-33%) | 5 (11-25%) | IV | 5-7 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|------------------------------|-----------------------------|------------|--------------------------|-----------------------------|------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Rough meadow grass | <i>Poa trivialis</i> | | 4 (4-10%) | 6 (26-33%) | | 8 (51-75%) | III | 4-8 | LC |
| Meadow foxtail | <i>Alopecurus pratensis</i> | | 5 (11-25%) | | 4 (4-10%) | | II | 4-5 | LC |
| False oat-grass | <i>Arrhenatherum elatius</i> | | | | 8 (51-75%) | | I | 8-8 | LC |
| Cocksfoot grass | <i>Dactylis glomerata</i> | | | | 4 (4-10%) | | I | 4-4 | LC |
| Red fescue | <i>Festuca rubra</i> | | | | 6 (26-33%) | | I | 6-6 | LC |
| Soft rush | <i>Juncus effusus</i> | | 5 (11-25%) | | | | I | 5-5 | LC |
| Compact rush | <i>Juncus conglomeratus</i> | 4 (4-10%) | | | | | I | 4-4 | LC |
| Hairy sedge | <i>Carex hirta</i> | 4 (4-10%) | | 4 (4-10%) | 5 (11-25%) | 6 (26-33%) | IV | 4-6 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | 8 (51-75%) | | | | | I | 8-8 | LC |
| Common mouse ear | <i>Cerastium fontanum</i> | 5 (11-25%) | | | | | I | 5-5 | LC |
| Creeping thistle | <i>Cirsium arvense</i> | 2 <4% (several individuals) | | | | | I | 2-2 | LC |
| Smooth tare | <i>Vicia tetrasperma</i> | 4 (4-10%) | | | | | I | 4-4 | LC |
| Cut leaved cranesbill | <i>Geranium dissectum</i> | 1 <4% (few individuals) | | 3 <4% (many individuals) | | | II | 1-3 | LC |
| Redshank | <i>Persicaria maculosa</i> | | | 1 <4% (few individuals) | 3 <4% (many individuals) | | II | 1-3 | LC |
| Common sorrel | <i>Rumex acetosa</i> | | | | 2 <4% (several individuals) | | I | 2-2 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------|----------------------------|-------------------|---|---|---|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Clustered dock | <i>Rumex conglomeratus</i> | | | | | 1 <4% (few individuals) | I | 1-1 | LC |

Table B-61 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 40 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section L: Lower Upham to Brambridge

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-----------------------------|---|---|---|---|-----------------|---------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common nettle | <i>Urtica dioica</i> | 7 (34-50%) | | | | | I | 7 - 7 | LC |
| Common ivy | <i>Hedera helix</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| Garlic mustard | <i>Alliaria petiolata</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Wood dock | <i>Rumex sanguineus</i> | 3 <4% (many individuals) | | | | | I | 3 - 3 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 10 (91-100%) | | | | | I | 10 - 10 | LC |
| Pendulous sedge | <i>Carex pendula</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Cocksfoot grass | <i>Dactylis glomerata</i> | 2 <4% (several individuals) | | | | | I | 5 - 5 | LC |
| Canopy layer | | | | | | | | | |
| Oak | <i>Quercus sp.</i> | Present | | | | | I | | LC |
| Ash | <i>Fraxinus excelsior</i> | Present | | | | | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|---------------------------|-------------------|---|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Crack willow | <i>Salix fragilis</i> | Present | | | | | I | | LC |
| Shrub layer | | | | | | | | | |
| Holly | <i>Ilex aquifolium</i> | Present | | | | | I | | LC |
| Grey willow | <i>Salix cinerea</i> | Present | | | | | I | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |

Table B-62 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 41 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section M: Brambridge and Otterbourne Water Supply Works

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|----------------------------------|-------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | | 2 <4% (several individuals) | 8 (51-75%) | 7 (34-50%) | 6 (26-33%) | IV | 2 - 8 | LC |
| Lesser pond sedge | <i>Carex acutiformis</i> | 7 (34-50%) | | | | 7 (34-50%) | II | 7 - 7 | LC |
| Herb Robert | <i>Geranium robertianum</i> | 4 (4-10%) | 5 (11-25%) | 6 (26-33%) | 3 <4% (many individuals) | 3 <4% (many individuals) | V | 3 - 6 | LC |
| Enchanter's-nightshade | <i>Circaea lutetiana</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Lesser celandine | <i>Ficaria verna</i> | 8 (51-75%) | 7 (34-50%) | 3 <4% (many individuals) | | | III | 3 - 8 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|--------------------------------|--------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Yellow flag iris | <i>Iris pseudacorus</i> | 7 (34-50%) | | | 3 <4% (many individuals) | | II | 3 - 7 | LC |
| Broad leaved dock | <i>Rumex obtusifolius</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Large forest moss | <i>Brachythecium rutabulum</i> | | 5 (11-25%) | 3 <4% (many individuals) | 3 <4% (many individuals) | 3 <4% (many individuals) | IV | 3 - 5 | LC |
| Broad buckler fern | <i>Dryopteris dilatata</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Common nettle | <i>Urtica dioica</i> | 3 <4% (many individuals) | | 8 (51-75%) | 4 (4-10%) | | III | 3 - 8 | LC |
| Wild angelica | <i>Angelica sylvestris</i> | | 2 <4% (several individuals) | | | | I | 2 - 2 | LC |
| Water avens | <i>Geum rivale</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Bramble | <i>Rubus fruticosus agg.</i> | 4 (4-10%) | | | | 3 <4% (many individuals) | II | 3 - 4 | LC |
| Hemlock water dropwort | <i>Oenanthe crocata</i> | | 3 <4% (many individuals) | | 5 (11-25%) | 5 (11-25%) | III | 3 - 5 | LC |
| Pendulous sedge | <i>Carex pendula</i> | | | | 5 (11-25%) | | I | 5 - 5 | LC |
| Cleavers | <i>Galium aparine</i> | 8 (51-75%) | 5 (11-25%) | 9 (76-90%) | 1 <4% (few individuals) | | IV | 1 - 9 | LC |
| Meadowsweet | <i>Filipendula ulmaria</i> | 4 (4-10%) | | 1 <4% (few individuals) | | 3 <4% (many individuals) | III | 1 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|----------------------|--------------------------------|-------------------------|--------------------------|-----------------------------|--------------------------|--------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Common feather moss | <i>Kindbergia praelonga</i> | | 3 <4% (many individuals) | 4 (4-10%) | 4 (4-10%) | 4 (4-10%) | IV | 3 - 4 | LC |
| Hazel sapling | <i>Corylus avellana</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Sycamore sapling | <i>Acer pseudoplatanus</i> | | 1 <4% (few individuals) | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Common reed | <i>Phragmites australis</i> | 1 <4% (few individuals) | | | | | I | 1 - 1 | LC |
| Floating sweet grass | <i>Glyceria fluitans</i> | | 6 (26-33%) | | | | I | 6 - 6 | LC |
| Wood avens | <i>Geum urbanum</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Rough meadow grass | <i>Poa trivialis</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Beech sapling | <i>Fagus sylvatica sapling</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Oak sapling | <i>Quercus</i> | | 1 <4% (few individuals) | | | | I | 1 - 1 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | | 3 <4% (many individuals) | 2 <4% (several individuals) | 3 <4% (many individuals) | 3 <4% (many individuals) | IV | 3 - 3 | LC |
| Canopy layer | | | | | | | | | |
| Alder | <i>Alnus glutinosa</i> | Present | Present | Present | | Present | IV | | LC |
| Grey willow | <i>Salix cinerea</i> | | | | Present | | I | | LC |
| Crack willow | <i>Salix fragilis</i> | Present | Present | | | | II | | LC |
| Oak species | <i>Quercus sp.</i> | | | | | Present | I | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Silver birch | <i>Betula pendula</i> | Present | | | Present | | II | | LC |
| Shrub layer | | | | | | | | | |
| Hawthorn | <i>Crataegus monogyna</i> | Present | | | | | I | | LC |
| Grey willow | <i>Salix cinerea</i> | Present | Present | Present | | Present | IV | | LC |
| Sycamore | <i>Acer pseudoplatanus</i> | Present | | | | | I | | LC |
| Holly | <i>Ilex aquifolium</i> | | | | Present | | I | | LC |
| Hazel | <i>Corylus avellana</i> | | | | Present | Present | II | | LC |

Table B-63 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 42 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section M: Brambridge and Otterbourne Water Supply Works

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|-----------------------------|--------------------------|--------------------------|------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Marsh Horsetail | <i>Equisetum palustre</i> | 2 <4% (several individuals) | 3 <4% (many individuals) | | | 2 <4% (several individuals) | III | 2 - 3 | LC |
| Meadow foxtail | <i>Alopecurus pratensis</i> | 8 (51-75%) | 9 (76-90%) | 8 (51-75%) | | 7 (34-50%) | IV | 7 - 9 | LC |
| Lesser pond-sedge | <i>Carex acutiformis</i> | 7 (34-50%) | | | | 9 (76-90%) | II | 7 - 9 | LC |
| Brown sedge | <i>Carex disticha</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | 3 <4% (many individuals) | | | III | 3 - 3 | LC |
| Sweet vernal grass | <i>Anthoxanthum odoratum</i> | 4 (4-10%) | 4 (4-10%) | 6 (26-33%) | 6 (26-33%) | 4 (4-10%) | V | 4 - 6 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|------------------------------|-------------------|--------------------------|--------------------------|------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| purple moor-grass | <i>Molinia caerulea</i> | 5 (11-25%) | | | | 5 (11-25%) | II | 5 - 5 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 4 (4-10%) | 7 (34-50%) | | 9 (76-90%) | 4 (4-10%) | IV | 4 - 9 | LC |
| Soft rush | <i>Juncus effusus</i> | | 7 (34-50%) | 4 (4-10%) | 5 (11-25%) | | III | 4 - 7 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | | 4 (4-10%) | | 4 (4-10%) | | II | 4 - 4 | LC |
| Cleavers | <i>Galium aparine</i> | | | | | 1 <4% (few individuals) | I | 1 - 1 | LC |
| Dandelions | <i>Taraxacum</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| False oat-grass | <i>Arrhenatherum elatius</i> | | 3 <4% (many individuals) | 3 <4% (many individuals) | | | II | 3 - 3 | LC |
| Broad-leaved dock | <i>Rumex obtusifolius</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |

Table B-64 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 43 within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section M: Brambridge and Otterbourne Water Supply Works

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------------|-------------------|--------------------------|--------------------------|-------------------------|-------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Common ivy | <i>Hedera helix subsp. Helix</i> | 4 (4-10%) | 3 <4% (many individuals) | 6 (26-33%) | 7 (34-50%) | 5 (11-25%) | V | 3 - 7 | LC |
| Solomons seal | <i>Polygonatum multiflorum</i> | | 1 <4% (few individuals) | 3 <4% (many individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | IV | 1 - 3 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|------------------------|----------------------------------|-----------------------------|--------------------------|--------------------------|-----------------------------|--------------------------|-----------------|--------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Wood anemone | <i>Anemone nemorosa</i> | 4 (4-10%) | 4 (4-10%) | 5 (11-25%) | 3 <4% (many individuals) | | IV | 3 - 5 | LC |
| Bluebell | <i>Hyacinthoides non-scripta</i> | 8 (51-75%) | 8 (51-75%) | 8 (51-75%) | 10 (91-100%) | 9 (76-90%) | V | 8 - 10 | LC |
| Wood anemone | <i>Anemone nemorosa</i> | 4 (4-10%) | 4 (4-10%) | 5 (11-25%) | | 3 <4% (many individuals) | IV | 3 - 5 | LC |
| Wood sedge | <i>Carex sylvatica</i> | 1 <4% (few individuals) | 3 <4% (many individuals) | | 2 <4% (several individuals) | | III | 1 - 3 | LC |
| Field maple sapling | <i>Acer campestre</i> | 1 <4% (few individuals) | | 1 <4% (few individuals) | | | II | 1 - 1 | LC |
| Wood avens | <i>Geum urbanum</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| oak sapling | <i>Quercus</i> | | 1 <4% (few individuals) | | 1 <4% (few individuals) | 1 <4% (few individuals) | III | 1 - 1 | LC |
| Male fern | <i>Dryopteris filix-mas</i> | | | | 2 <4% (several individuals) | | I | 2 - 2 | LC |
| Narrow buckler fern | <i>Dryopteris carthusiana</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Enchanter's nightshade | <i>Circaea lutetiana</i> | 4 (4-10%) | | 3 <4% (many individuals) | 2 <4% (several individuals) | | III | 2 - 4 | LC |
| Primrose | <i>Primula vulgaris</i> | 2 <4% (several individuals) | | | | | I | 2 - 2 | LC |
| Bramble agg | <i>Rubus fruticosus agg.</i> | | | 3 <4% (many individuals) | 3 <4% (many individuals) | 1 <4% (few individuals) | III | 1 - 3 | LC |
| Ash sapling | <i>Fraxinus excelsior</i> | 4 (4-10%) | 4 (4-10%) | 5 (11-25%) | 5 (11-25%) | 4 (4-10%) | V | 4 - 5 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|-----------------------------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Lesser celandine | <i>Ficaria verna</i> | 5 (11-25%) | | | 1 <4% (few individuals) | | II | 1 - 5 | LC |
| Black bryony | <i>Tamus communis</i> | | | | 3 <4% (many individuals) | 1 <4% (few individuals) | II | 1 - 3 | LC |
| Cleavers | <i>Galium aparine</i> | | | | 2 <4% (several individuals) | | I | 2 - 2 | LC |
| plait moss | <i>Hypnum</i> | | 2 <4% (several individuals) | | 3 <4% (many individuals) | 2 <4% (several individuals) | III | 2 - 3 | LC |
| common dog-violet | <i>Viola riviniana</i> | | | | | 3 <4% (many individuals) | I | 3 - 3 | LC |
| Herb robert | <i>Geranium robertium</i> | | | | 3 <4% (many individuals) | | I | 3 - 3 | LC |
| Lords and Ladies | <i>Arum maculatum</i> | | | 3 <4% (many individuals) | | 4 (4-10%) | II | 3 - 4 | LC |
| Honeysuckle | <i>Lonicera periclymenum</i> | | | | 2 <4% (several individuals) | | I | 2 - 2 | LC |
| Blackthorn sapling | <i>Prunus spinosa</i> | 3 <4% (many individuals) | | | 3 <4% (many individuals) | | II | 3 - 3 | LC |
| Holly sapling | <i>Ilex aquifolium</i> | 3 <4% (many individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | 2 <4% (several individuals) | | IV | 1 - 3 | LC |
| Hawthorn sapling | <i>Crataegus monogyna</i> | | 1 <4% (few individuals) | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Canopy layer | | | | | | | | | |
| Cherry | <i>Prunus sp</i> | Present | Present | Present | Present | Present | V | | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|---------------------------|-------------------|---------|---------|---------|---------|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Ash | <i>Fraxinus excelsior</i> | Present | Present | Present | Present | Present | V | | LC |
| Pedunculate oak | <i>Quercus robur</i> | Present | Present | Present | Present | Present | V | | LC |
| Shrub layer | | | | | | | | | |
| Hazel | <i>Corylus avellana</i> | Present | Present | Present | Present | Present | V | | LC |
| Hawthorn | <i>Crataegus monogyna</i> | Present | Present | Present | Present | Present | V | | LC |
| Holly | <i>Ilex aquifolium</i> | Present | Present | Present | Present | Present | V | | LC |

Table B-65 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 44a within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section M: Brambridge and Otterbourne Water Supply Works

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|-----------------------|---------------------------------|-------------------------|-----------------------------|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Cut leaved cranesbill | <i>Geranium dissectum</i> | | 2 <4% (several individuals) | | | | I | 2 - 2 | LC |
| Cleavers | <i>Galium aparine</i> | 6 (26-33%) | 4 (4-10%) | | | | II | 4 - 6 | LC |
| Field horsetail | <i>Equisetum arvense</i> | 6 (26-33%) | 4 (4-10%) | | | | II | 4 - 6 | LC |
| Tall fescue | <i>Schedonorus arundinaceus</i> | 6 (26-33%) | | | | | I | 6 - 6 | LC |
| Yorkshire fog | <i>Holcus lanatus</i> | 1 <4% (few individuals) | 6 (26-33%) | | | | II | 1 - 6 | LC |
| Hairy sedge | <i>Carex hirta</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |

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| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|---------------------|------------------------------|-----------------------------|-----------------------------|---|---|---|-----------------|-------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Meadow fescue | <i>Schedonorus pratensis</i> | | 4 (4-10%) | | | | I | 4 - 4 | LC |
| Creeping cinquefoil | <i>Potentilla reptans</i> | 5 (11-25%) | 2 <4% (several individuals) | | | | II | 2 - 5 | LC |
| Common couch | <i>Elymus repens</i> | 8 (51-75%) | | | | | I | 8 - 8 | LC |
| False oat-grass | <i>Arrhenatherum elatius</i> | 7 (34-50%) | 5 (11-25%) | | | | II | 5 - 7 | LC |
| Lesser pond sedge | <i>Carex acutiformis</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Meadow foxtail | <i>Alopecurus pratensis</i> | 3 <4% (many individuals) | 3 <4% (many individuals) | | | | II | 3 - 3 | LC |
| Silverweed | <i>Potentilla anserina</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Timothy | <i>Phleum pratense</i> | 3 <4% (many individuals) | 4 (4-10%) | | | | II | 3 - 4 | LC |
| Cock's foot grass | <i>Dactylis glomerata</i> | 2 <4% (several individuals) | 8 (51-75%) | | | | II | 2 - 8 | LC |
| Creeping buttercup | <i>Ranunculus repens</i> | | 3 <4% (many individuals) | | | | I | 3 - 3 | LC |
| Curled dock | <i>Rumex crispus</i> | 1 <4% (few individuals) | 2 <4% (several individuals) | | | | II | 1 - 2 | LC |

Table B-66 National Vegetation Classification data table for vegetation communities identified at National Vegetation Classification site 44b within the Pipeline between the Water Recycling Plant site and Otterbourne Water Supply Works component, Section M: Brambridge and Otterbourne Water Supply Works

| Common name | Latin name | Quadrat locations | | | | | Frequency (I-V) | Range | Species status |
|--------------------|----------------------------|--------------------------|-------------------------|-----------------------------|-------------------------|--------------------------|-----------------|---------|----------------|
| | | 1 | 2 | 3 | 4 | 5 | | | |
| Field layer | | | | | | | | | |
| Greater pond sedge | <i>Carex riparia</i> | 10 (91-100%) | 10 (91-100%) | 10 (91-100%) | 10 (91-100%) | 10 (91-100%) | V | 10 - 10 | LC |
| Bittersweet | <i>Solanum dulcamara</i> | 1 <4% (few individuals) | | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Meadowsweet | <i>Filipendula ulmaria</i> | 3 <4% (many individuals) | | | | 3 <4% (many individuals) | II | 3 - 3 | LC |
| Water mint | <i>Mentha aquatica</i> | | | 1 <4% (few individuals) | | | I | 1 - 1 | LC |
| Reed sweet grass | <i>Glyceria maxima</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Creeping thistle | <i>Cirsium arvense</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |
| Yellow Loosestrife | <i>Lysimachia vulgaris</i> | | | 3 <4% (many individuals) | | | I | 3 - 3 | LC |
| Amphibious Bistort | <i>Persicaria amphibia</i> | | 1 <4% (few individuals) | 1 <4% (few individuals) | 1 <4% (few individuals) | | III | 1 - 1 | LC |
| Cleavers | <i>Galium aparine</i> | 1 <4% (few individuals) | | | | 1 <4% (few individuals) | II | 1 - 1 | LC |
| Field horsetail | <i>Equisetum arvense</i> | | 5 (11-25%) | 4 (4-10%) | 5 (11-25%) | 5 (11-25%) | IV | 4 - 5 | LC |
| Marsh horsetail | <i>Equisetum palustre</i> | | | 4 (4-10%) | | | I | 4 - 4 | LC |
| Bifid hemp nettle | <i>Galeopsis bifida</i> | 3 <4% (many individuals) | | 2 <4% (several individuals) | | 3 <4% (many individuals) | III | 2 - 3 | LC |
| Yellow iris | <i>Iris pseudacorus</i> | 5 (11-25%) | 4 (4-10%) | | 4 (4-10%) | 5 (11-25%) | IV | 4 - 5 | LC |



from
Southern
Water. 

The Southern Water logo graphic consists of three white, wavy lines of varying lengths, stacked vertically, resembling a stylized wave or water droplet.