

Cambridge Waste Water Treatment Plant Relocation Project
Anglian Water Services Limited

Appendix 8.3: Water Vole Technical Appendix

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1 Introduction

1.1 Overview

1.1.1 The water vole surveys were carried out to inform the biodiversity assessment completed for the Proposed Development as reported in Chapter 8, Biodiversity (Application Document Reference 5.2.8). These species could be potential constraints to the Proposed Development or influence its design and implementation. An extended Phase 1 Habitat Survey identified and mapped the main habitats within 5 km of the boundary of the Proposed Development as it was in 2020 – 2021.

1.2 Aims and objectives

1.2.1 A Preliminary Ecological Appraisal (PEA) was undertaken between July and September 2020 to establish the broad ecological baseline for the Proposed Development, which includes the Proposed Waste Water Treatment Plant (WWTP) and the Waterbeach Pipeline. Based on the findings of the PEA, habitat and protected species surveys¹ have been undertaken throughout 2021 and 2022 to determine the ecological baseline. The PEA identified 113 waterbodies which required further surveys for water vole.

1.2.2 This technical appendix presents the methodology used for surveys and the results from surveys undertaken within 100m of the Scheme Order Limits (Figure 1.1 below).

1.2.3 This report should be read in conjunction with Chapter 8: Biodiversity (App Doc Ref 5.2.8) of the Environmental Statement to which this report is appended.

1.3 Project description

1.3.1 The Proposed Development involves the construction of a new integrated waste water treatment plant (hereafter proposed WWTP) together with the associated waste water transfer infrastructure, comprising waste water transfer tunnel (underground tunnel), sewer rising main diversions and a treated effluent discharge outfall to the River Cam (the outfall). The Proposed Development also includes a transfer pipeline corridor, the Waterbeach Pipeline, from the Waterbeach Water Recycling Centre (WRC) to the existing Cambridge WWTP. The proposed WWTP will incorporate an integrated Sludge Treatment Centre (STC) which would treat sludge imported from other treatment plants in the Cambridge catchment.

1.3.2 A detailed project description is included in Chapter 2: Project description (App Doc Ref 5.2.2) of the Environmental Statement.

¹ Invasive species surveys were conducted in conjunction with other ecological receptor surveys and target notes and annotations on maps made when invasive species were encountered.

- 1.3.3 The Proposed Development is located north-east of Cambridge and is mostly comprised of arable land. The A14 and Low Fen Drove Way Country Wildlife Site (CWS) are dominant features of the landscape lying to the south and east, respectively, of the Proposed Development. The B1047 Horningsea Road borders the proposed WWTP site to the west. The River Cam is west of the CWWTP site and is where discharges are treated effluent will occur.
- 1.3.4 The Scheme Order Limits cover an area of approximately 211ha. The network of ditches and ponds within the Scheme Order Limits provide potential suitable habitat for water vole. Surveys were undertaken within the Scheme Order Limits plus a 100m buffer.
- 1.3.5 Figure 1.1 below details the location of the Proposed Development and shows the Scheme Order Limits.

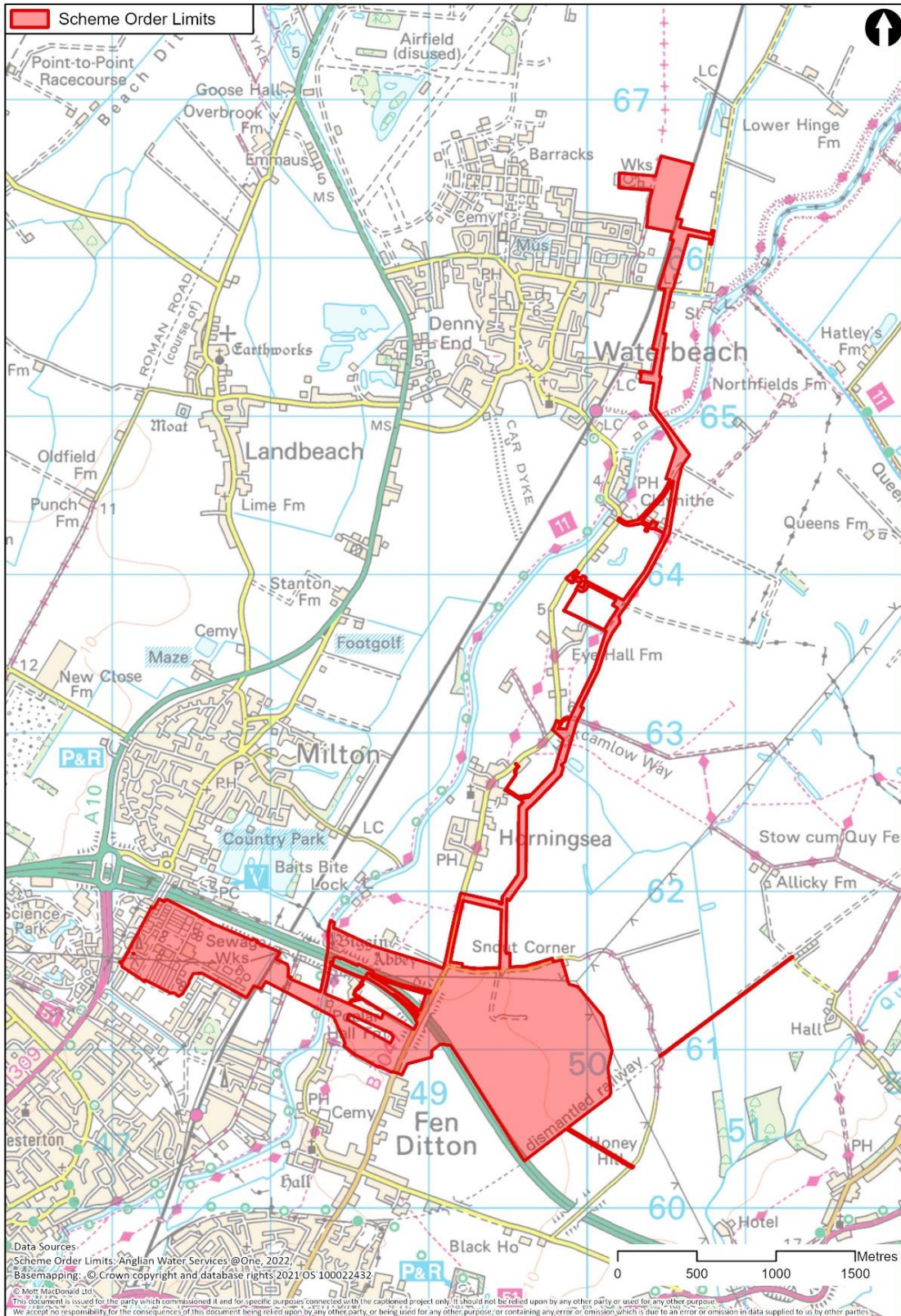


Figure 1.1: Scheme Order Limits

1.4 Legislation

1.4.1 Water voles are protected by Schedule 5 of the Wildlife and Countryside Act 1981 (HM Government, 1981) (as amended) making it illegal to:

- intentionally kill, take or injure a water vole;
- possess or control any live or dead water vole, or any part or derivative;
- intentionally or recklessly damage or destroy a water vole's place of shelter or protection;
- intentionally or recklessly disturb a water vole whilst it is occupying a structure or a place which it uses for shelter or protection;
- intentionally or recklessly obstruct access to a water vole's place of shelter or protection; and
- sell, offer for sale or possess or transport for the purposes of sale, any live or dead water vole, or any part or derivative, or advertising any of these for buying or selling.

1.4.2 Water voles are listed as a Species of Principle Importance (SPI) under Section 41 of the Natural Environment and Rural Communities Act 2006 (HM Government, 2006).

1.4.3 Water voles are recognised as a UK Biodiversity Action Plan Priority Species found in Cambridge (Cambridge City Council, 2006).

2 Method

2.1 Desk study

2.1.1 A desk study was undertaken to ascertain the presence of the following with respect to water vole:

- statutory designated sites;
- non-statutory designated sites; and
- water vole specific designations.

2.1.2 The aim of the desk study is to collate and review existing information about this site and its surroundings to inform the design of subsequent water vole surveys and inform the impact assessment for the project.

2.1.3 An initial data search was undertaken to determine the presence of records of water vole. This data search was conducted over a 5km radius from the Scheme Order Limits, with all statutory designated sites such as Special Areas of Conservation (SAC) and Sites of Special Scientific Interest (SSSI) relevant to water vole within 10km also considered.

2.1.4 Information on the above features has been accessed from:

- Multi Agency Geographic Information for the Countryside (MAGIC) (Defra, 2002);
- aerial photography at a scale of 1:25,000;
- Cambridgeshire and Peterborough Priority Species and Habitat Action Plans; and
- Ordnance Survey mapping (at scales of 1:50,000 and 1:25,000).

2.1.5 To obtain records of protected or notable species, a biological record search was undertaken within a 5km radius from the Scheme Order Limits (Cambridge and Peterborough Environmental Records Centre, 2021).

2.2 Field survey

2.2.1 The study area for water vole included the Proposed Development plus a 100m buffer. This included the River Cam where the treated effluent discharge outfall to the River Cam (the outfall) will be located and all ditches within 100m of the Proposed Development.

2.2.2 Owing to the extent of the ditch network throughout the survey area and the high mobility of water vole, all watercourses were scoped in for water vole surveys. Water vole will use watercourses seasonally.

- 2.2.3 Two survey visits were undertaken for water vole, one in the first half of the season (mid-April to June inclusive) and one in the second half of the season (July to September inclusive) (Dean, Strachan, Gow, & Andrews, 2016).
- 2.2.4 Water vole visits were carried out three months apart in accordance with (Dean, Strachan, Gow, & Andrews, 2016), which recommends visits are undertaken at least two months apart. Incidental records were also noted during other surveys.
- 2.2.5 Surveyors applied the principles of standard methodologies:
- The Water Vole Mitigation Handbook for Development and Other Construction Activities (Dean, Strachan, Gow, & Andrews, 2016);
 - Water Vole Field Signs and Habitat Assessment: A Practical Guide to Water Vole Surveys (Dean M. , 2021); and
 - Water Vole Conservation Handbook. Third Edition (Strachan et al., 2011) .
- 2.2.6 In order to undertake these surveys, a range of methods were used: walked transects, boat transects and raft surveys.

Habitat assessment

- 2.2.7 A habitat assessment was undertaken for water vole for each watercourse and considered the following factors (Dean, Strachan, Gow, & Andrews, 2016):
- bank profile, channel profile and characteristics, and water levels;
 - habitat types present and their suitability for each species (indication of abundance using DAFOR² scale);
 - predominant bank substrate;
 - availability of food sources;
 - vegetation structure (particularly the extent of suitable marginal vegetation);
 - level of shading (%);
 - watercourse depth and width;
 - rate of flow;
 - disturbance level;
 - adjoining land use; and
 - a visual assessment of connectivity with other areas of suitable habitat (low, medium, high).

² DAFOR is a scale used to provide a quick estimate of the relative abundance of species. DAFOR stands for the categories Dominant, Abundant, Frequent, Occasional, Rare.

Field signs

- 2.2.8 During each survey, the banks of each waterbody and adjacent linear habitat (a minimum 5m from the waterbody and further where possible) were visually inspected for signs of use by water vole, and each type of sign was recorded. Where access allowed both banks were surveyed.
- 2.2.9 Water vole field signs recorded presence of:
- latrines;
 - burrows;
 - runs;
 - footprints;
 - feeding remains; and
 - sightings and/or sounds (characteristic sound entering the water) of individuals.
- 2.2.10 Where surveys were undertaken as walked transects field signs were mapped using GPS/ArcGIS on handheld tablets. Walked transects were not possible on the River Cam, so surveys along this watercourse were undertaken by boat or suitable watercraft, recording field signs using GPS/ArcGIS. Boat surveys were undertaken on the River Cam, 500m upstream and 500m downstream of the works that would directly affect the river.
- 2.2.11 A boat survey was not carried out along the River Cam where the Waterbeach pipeline will cross because this section of the pipeline will be directionally drilled underneath the river, resulting in reduced impact to the River Cam.

2.3 Waterbeach raft surveys

- 2.3.1 Raft surveys involve the installation of floating rafts made of insulation board, approximately 0.45m x 0.3m in size. The rafts are placed in the channel, approximately every 15m, and attached to the bank using string and a cane.
- 2.3.2 After one survey carried out on foot it was decided that raft surveys would be more appropriate for the ditches located in the Waterbeach area. Therefore, instead of a second survey visit using conventional walkover methodology in ditches within the Waterbeach area, water vole raft surveys were used to survey the ditches within 100m of the Waterbeach Pipeline.
- 2.3.3 The rafts were then checked every two weeks for six visits. Binoculars were used to check rafts when the channel was difficult to access.
- 2.3.4 Water voles are known to use floating materials to deposit latrines, so raft surveys are a good way of detecting water vole presence when access into the channel is difficult (Dean, Strachan, Gow, & Andrews, 2016).

2.3.5 A map showing the waterbodies which had rafts installed can be seen in Figure 8.17, Book of Figures – Biodiversity (App Doc Ref 5.3.8).

2.3.6 Waterbodies that underwent raft surveys are shown in Table 2-1 below.

Table 2-1: Waterbodies requiring water vole raft surveys

Waterbody	Number of rafts used
PD047	4
WB039	4
WB055	8
WB060/WB308	3
WB064	2
WB078	11
WB083	3
WB085	5
WB089	4
WB107	7
WB120	3
WB121	7
WB123	8
WB129	7
WB141	11
WB159	3
WB182	1
WB215	6
WB232	3
WB234	8
WB245	4
WB253	9
WB264	7
WB291	4
WB292	2
WB318	10
WB319	1

Source: Mott MacDonald Ltd, 2022

2.4 Survey timings

2.4.1 Surveys were completed in suitable weather conditions on the following dates and in the following areas:

Proposed WWTP and associated ditches, River Cam and outfall location:

- visit one: 27 and 28 April 2021; 10 and 11 May 2021; and
- visit two: 02, 03, 06 and 24 August 2021.

Waterbeach Pipeline:

- visit one: 13, 16, 28 and 30 September 2021.

After this visit, six raft surveys were completed as follows;

- visit one of six: 5 and 6 May 2022;
- visit two of six: 18 and 19 May 2022;
- visit three of six: 9 and 10th June 2022;
- visit four of six: 22 and 24 June 2022;
- visit five of six: 7 and 8 July 2022; and
- visit six of six: 15 and 16 August 2022.

2.4.2 Visit details are provided in Table 5.1 and 5.2, Appendix A.

2.5 Survey limitations and assumptions

- 2.5.1 Biological records obtained from third parties and presented in the desk study do not represent a full and complete species list for the area. This is not considered to be a significant limitation because surveys were carried out throughout all suitable habitat within 100m of the Scheme Order Limits. No areas were ruled out based on the results of the desk study.
- 2.5.2 Only data for the last ten years were included in the desk study. This is not considered to be a significant limitation because these records are considered to be the most relevant and reflect management and development that may have occurred in the local area.
- 2.5.3 Six waterbodies (WB001, WB012, WB020, WB035, WB062, WB260) have dense vegetation which inhibited access to sections of the watercourse; therefore, a robust search for field signs could not be undertaken along the entire length of each waterbody. However, signs of water vole presence were identified in waterbodies WB001 and WB260 so the limited access is not considered to be a limitation. Waterbodies WB012 and WB020 are adjacent to an area of the River Cam where signs of water vole were identified. It should be assumed that waterbodies so close to the River Cam are likely to have water vole present. Waterbody WB035 is located in the existing WWTP and is connected to WB260. Signs were found along WB260, and it should be assumed that water vole are also present in WB035. Waterbody WB062 is an arable ditch with very limited food sources for water vole, is heavily shaded and was dry during the final two visits. These limitations will require further action, such as pre-construction checks.
- 2.5.4 Many of the watercourses on site are well connected, and absence of field signs in one section of watercourse does not mean water vole are absent from that watercourse. Water vole are a highly mobile species and may use different watercourses throughout the varying seasons. This is a limitation which will require further action, such as pre-construction checks.

- 2.5.5 Raft surveys were carried out in the Waterbeach area following the first check. The change in survey method is due to these ditches having very steep banks and silty channels, limiting surveys on foot to ensure the safety of the surveyor. This is not considered to be a significant limitation because using rafts is an effective method to determine the presence of water vole in cases where the waterbody cannot be accessed on foot.
- 2.5.6 Only five raft survey checks were carried out on waterbodies WB123, WB055 and WB215. The landowner, on whose land these waterbodies are located, removed the rafts without informing the survey team. Missing the final visit should not affect the results because evidence of water vole has been identified in those ditches and therefore, their presence has been determined. In addition to this, all three ditches had dried out on the fifth visit.
- 2.5.7 Rafts could not be installed on PD008 due to the presence of livestock. PD008 is a recently created agricultural reservoir which has sections of suitable vegetation; however, the banks are too shallow for water vole burrowing and connectivity to surrounding habitat is poor. This is a limitation that will require further action such as pre-construction checks.

3 Results

3.1 Desk study results

- 3.1.1 The desk study returned 11 records of water vole within a 5km radius from the Scheme Order Limits. Records included water vole field signs such as latrines, feeding signs and a sighting of a juvenile.
- 3.1.2 There are no statutory or non-statutory designated sites with water vole as reason for their designation returned within 10km of the Scheme Order Limits.
- 3.1.3 Desk study results are detailed in Table 5.3, Appendix A.

3.2 Habitat assessment

- 3.2.1 Following the PEA, a total of 115 waterbodies were scoped in for a habitat assessment.
- 3.2.2 Out of the 115 waterbodies, 54 were in the proposed WWTP area. Habitat assessments were only carried out on 49 of these waterbodies. Of the five remaining waterbodies, three (WB250, WB162 and WB113) were found not to exist and there was no evidence of aquatic vegetation, and two (WB053 and WB161) were not accessible due to the presence of a dual carriageway and fencing.
- 3.2.3 The remaining 61 waterbodies were located in the Waterbeach area. A habitat assessment was carried out on 53 of these waterbodies. The remaining eight waterbodies (WB178, WB185, WB203, WB20, WB242, WB160, WB256, WB087) were found to not exist and have no evidence of aquatic vegetation.
- 3.2.4 The results of the habitat assessments are shown in Table 5.4, Appendix A.

3.3 Field signs

- 3.3.1 Following the habitat assessment, waterbodies were searched for signs of water vole.
- 3.3.2 In the proposed WWTP area, all 49 waterbodies were searched for signs of water vole during the first visit. Eighteen of these waterbodies were dry on both the first and second visit.
- 3.3.3 In the Waterbeach area, all 53 waterbodies were searched for signs of water vole during the first visit. During the second visit when rafts were installed, 26 waterbodies were scoped out of further surveys. Of the 26 waterbodies, 24 were dry on both the first and second visit, one was scoped out due to the presence of livestock and one was scoped out due to no longer being within the 100m buffer after a change in design.
- 3.3.4 Scoped-out waterbodies within the Scheme Order Limits are shown on Figure 8.18, Book of Figures – Biodiversity (App Doc Ref 5.3.8).

- 3.3.5 Scoped-in waterbodies within the Scheme Order Limits are shown on Figure 8.17, Book of Figures – Biodiversity (App Doc Ref 5.3.8).
- 3.3.6 Field signs of water vole were identified on 31 watercourses within the Scheme Order Limits and on immediately adjacent watercourses, as shown in Table 3-1.
- 3.3.7 Water vole field signs are shown on Figure 8.20, Book of Figures – Biodiversity (App Doc Ref 5.3.8) and in Table 5.5, Appendix A.

Table 3-1: Water vole field signs summary

Waterbody ID	Number of burrows	Number of latrines	Number of piles of feeding remains	Other signs	Number of survey visits undertaken
WB001	2	10	None	1 run	2
WB017	None	1	None	None	2
WB043	None	1	None	None	2
WB045	None	1	None	None	2
WB055	None	8	None	None	5
WB064	None	1	None	None	6
WB078	None	3	None	None	6
WB085	None	2	None	None	6
WB095	1	None	None	None	1 – Incidental sighting
WB100	4	2	None	None	2
WB105	4	6	None	1 footprint	2
WB107	None	1	None	None	6
WB120	None	2	None	None	6
WB121	None	1	None	1 sighting	6
WB123	None	2	None	1 sighting	5
WB129	None	1	None	None	6
WB141	4	20	None	1 run, 1 footprint, 2 sightings. Sightings regularly reported by land owner.	6
WB159	1	1	1	1 sighting	6
WB171	1	7	1	None	2
WB191	None	2	3	None	2
WB215	None	3	None	None	5
WB234	2	9	None	2 runs	6
WB243	None	1	None	None	1 – Incidental sighting
WB253	None	2	None	1 sighting	6
WB260	11	11	None	1 footprint	2
WB264	None	2	None	None	6
WB291	None	1	None	None	6
WB318	None	10	None	None	6
WB320	None	2	1	None	2
WB321	13	4	None	1 run	2

Waterbody ID	Number of burrows	Number of latrines	Number of piles of feeding remains	Other signs	Number of survey visits undertaken
River Cam (WB322)	23	21	2	None	2

Source: Mott MacDonald Ltd, 2022

Incidental Records

3.3.8 Some water vole signs were identified during otter surveys of the same waterbodies undertaken outside the optimal survey season for water voles. Water vole signs were also identified during ecology surveys for other species. These have been included in the results in Table 3-1 above and in Table 5.5, Appendix A.

4 References

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5 Appendix A

5.1 Water vole survey: Visit dates for the proposed WWTP

Waterbody	Visit 1	Visit 2
PD048 (pond)	11/05/2021	06/08/2021
WB001	27/04/2021	02/08/2021
WB010	11/05/2021	03/08/2021
WB104	11/05/2021	03/08/2021
WB012	27/04/2021	02/08/2021
WB017	28/04/2021	02/08/2021
WB019	10/05/2021	06/08/2021
WB020	27/04/2021	02/08/2021
WB021	11/05/2021	03/08/2021
WB030	11/05/2021	03/08/2021
WB031	11/05/2021	06/08/2021
WB035	28/04/2021	02/08/2021
WB043	10/05/2021	06/08/2021
WB045	27/04/2021	06/08/2021
WB053	10/05/2021	N/A- inaccessible
WB062	11/05/2021	03/08/2021
WB065	11/05/2021	03/08/2021
WB071	27/04/2021	03/08/2021
WB080	27/04/2021	03/08/2021
WB105	28/04/2021	02/08/2021
WB112	10/05/2021	06/08/2021
WB113	30/09/2021	N/A- no ditch present
WB114	11/05/2021	06/08/2021
WB116	10/05/2021	06/08/2021
WB118	11/05/2021	06/08/2021
WB122	11/05/2021	06/08/2021
WB146	28/04/2021	03/08/2021
WB151	10/05/2021	06/08/2021
WB152	28/04/2021	02/08/2021
WB161	11/05/2021	N/A- inaccessible
WB162	30/09/2021	N/A-no ditch present
WB170	10/05/2021	06/08/2021
WB171	28/04/2021	02/08/2021
WB183	11/05/2021	03/08/2021
WB184	11/05/2021	06/08/2021
WB191	10/05/2021	06/08/2021
WB199	11/05/2021	06/08/2021
WB210	10/05/2021	06/08/2021
WB213	11/05/2021	06/08/2021
WB214	27/04/2021	03/08/2021
WB230	28/04/2021	02/08/2021
WB238	10/05/2021	06/08/2021
WB244	10/05/2021	06/08/2021

Waterbody	Visit 1	Visit 2
WB250	30/09/2021	N/A- no ditch present
WB251	10/05/2021	06/08/2021
WB252	11/05/2021	03/08/2021
WB258	10/05/2021	06/08/2021
WB260	28/04/2021	02/08/2021
WB311	10/05/2021	06/08/2021
WB315	28/04/2021	02/08/2021
WB316	27/04/2021	02/08/2021
WB320	27/04/2021	03/08/2021
WB321	27/04/2021	03/08/2021
WB322 – River Cam	27/04/2021	24/08/2021

Source: Mott MacDonald, 2022

5.2 Water Vole Surveys: Visit dates for Waterbeach

Waterbody	Visit 1 – ditch search	Visit 1 – rafts	Visit 2 – rafts	Visit 3 – rafts	Visit 4 – rafts	Visit 5 – rafts	Visit 6 – rafts
PD008	30/09/2021	N/A – livestock present	N/A – livestock present	N/A – livestock present	N/A – livestock present	N/A – livestock present	N/A – livestock present
PD047	28/09/2021	06/05/2022	19/05/2022	10/06/2022	24/06/2022	08/07/2022	16/08/2022
WB003	13/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB007	30/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB008	16/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB039	28/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	16/08/2022
WB041	13/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB047	30/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB055	16/09/2021	06/05/2022	19/05/2022	10/06/2022	24/06/2022	08/07/2022	N/A-Farmer removed rafts
WB056	28/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB059	16/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB060	28/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022

Waterbody	Visit 1 – ditch search	Visit 1 – rafts	Visit 2 – rafts	Visit 3 – rafts	Visit 4 – rafts	Visit 5 – rafts	Visit 6 – rafts
WB061	30/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB064	28/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB078	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB083	28/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB085	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB087	28/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present
WB089	28/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB091	30/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB092	16/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB106	28/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB107	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB120	28/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB121	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022

Waterbody	Visit 1 – ditch search	Visit 1 – rafts	Visit 2 – rafts	Visit 3 – rafts	Visit 4 – rafts	Visit 5 – rafts	Visit 6 – rafts
WB123	16/09/2021	06/05/2022	19/05/2022	10/06/2022	24/06/2022	08/07/2022	N/A-Farmer removed rafts
WB129	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB141	16/09/2021	05/05/2022	18/05/2022	09/06/2022	24/06/2022	07/07/2022	16/08/2022
WB155	16/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB158	28/09/2021	N/A – outside the boundary	N/A – outside the boundary	N/A – outside the boundary	N/A – outside the boundary	N/A – outside the boundary	N/A – outside the boundary
WB159	28/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB160	28/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present
WB175	30/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB178	13/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present
WB182	13/09/2021	05/05/2022	18/05/2022	09/06/2022	24/06/2022	08/07/2022	16/08/2022
WB185	13/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present

Waterbody	Visit 1 – ditch search	Visit 1 – rafts	Visit 2 – rafts	Visit 3 – rafts	Visit 4 – rafts	Visit 5 – rafts	Visit 6 – rafts
WB203	13/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present
WB205	13/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB206	28/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB208	30/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB211	16/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB215	16/09/2021	06/05/2022	19/05/2022	10/06/2022	24/06/2022	08/07/2022	N/A-Farmer removed rafts
WB220	13/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present
WB225	13/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB232	30/09/2021	06/05/2022	19/05/2022	10/06/2022	24/06/2022	08/07/2022	16/08/2022
WB234	13/09/2021	06/05/2022	18/05/2022	10/06/2022	24/06/2022	08/07/2022	16/08/2022
WB240	28/09/2021	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry	N/A – dry
WB242	13/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present

Waterbody	Visit 1 – ditch search	Visit 1 – rafts	Visit 2 – rafts	Visit 3 – rafts	Visit 4 – rafts	Visit 5 – rafts	Visit 6 – rafts
WB245	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB253	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB256	13/09/2021	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present	N/A – no ditch present
WB264	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB291	30/09/2021	06/05/2022	19/05/2022	10/06/2022	24/06/2022	08/07/2022	16/08/2022
WB292	30/09/2021	06/05/2022	19/05/2022	10/06/2022	24/06/2022	08/07/2022	16/08/2022
WB294	30/09/2021	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry
WB295	30/09/2021	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry
WB297	16/09/2021	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry
WB300	13/09/2021	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry
WB301	13/09/2021	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry	N/A- dry
WB318	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022
WB319	13/09/2021	05/05/2022	18/05/2022	09/06/2022	22/06/2022	07/07/2022	15/08/2022

Source: Mott MacDonald, 2022

5.3 Desk Study Results

Common name	Scientific name	Grid reference	Precision	Comments
European Water Vole	Arvicola amphibius	TL47185923	10m	2 latrines.
European Water Vole	Arvicola amphibius	TL47715821	10m	3 latrines.
European Water Vole	Arvicola amphibius	TL47545876	10m	6 latrines.
European Water Vole	Arvicola amphibius	TL476601	100m	Several latrines seen with feeding signs.
European Water Vole	Arvicola amphibius	TL47715821	10m	Some feeding signs seen.
European Water Vole	Arvicola amphibius	TL521618	100m	A couple of latrines found, with regular feeding signs and active burrows.
European Water Vole	Arvicola amphibius	TL48756221	10m	Several latrines seen with feeding signs.
European Water Vole	Arvicola amphibius	TL52176444	10m	Bark gnawing noted.
European Water Vole	Arvicola amphibius	TL480602	100m	Feeding signs seen.
European Water Vole	Arvicola amphibius	TL481568	100m	'Plop' heard in the water.
European Water Vole	Arvicola amphibius	TL4457	1km	Juvenile swimming underwater and across the channel from bank to bank.

Source: Cambridge and Peterborough Environmental Records Centre, 2021

5.4 Habitat assessment Results

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
27/04/2021	WB001	Ditch	1	Moderate	Earth	Moderate	Grassland	R	O	O	O	O	F	D	0-10%	Slow	Good food sources	Medium	Arable ditch adjacent to the River Cam with footpath present.
27/04/2021	WB012	Ditch	1	Low	Earth	Low	Arable	O	F	A	R	R	R	R	70-80%	Slow	Limited food sources	Medium	Heavily shaded ditch with limited suitability for water vole. Poor vegetation structure. Shaded heavily by bramble scrub.
27/04/2021	WB020	Ditch	1	Low	Earth	Low	Arable	O	F	A	R	R	R	R	70-80%	Slow	Limited food sources	Medium	Heavily shaded ditch with limited suitability for water vole. Poor vegetation structure. Shaded heavily by bramble scrub.
27/04/2021	WB043	Ditch	1	Low	Earth	Low	Arable	R	A	A	F	R	R	F	10-20%	Slow	Good food sources	Medium	Arable ditch with emergent macrophytes. Grassy banks with a hedgerow on one side.
27/04/2021	WB045	Ditch	1	Low	Earth	High	Urban/industrial	F	F	F	R	R	O	F	30-40%	Slow	Limited food sources	Poor	Ditch adjacent to a road with some shading from a hedge on one side.
27/04/2021	WB053	Ditch	1	Low	Earth	High	Urban/industrial	F	F	F	R	R	O	F	90-100%	Slow	Limited food sources	Poor	Arable ditch adjacent to a busy road. Heavily shaded by a hedgerow on one side.
27/04/2021	WB071	Ditch	1	Low	Earth	Low	Arable	F	R	F	R	R	R	F	0-10%	Slow	Limited food sources	Poor	Narrow drainage ditch with very steep banks. No vegetation along the banks at water level.
27/04/2021	WB080	Ditch	1	Low	Earth	Low	Arable	F	R	O	R	R	R	F	0-10%	Slow	Some suitable vegetation	Poor	Grassy ditch with steep banks and herb cover.
27/04/2021	WB214	Ditch	1	Low	Earth	Low	Arable	F	R	R	R	R	R	F	10-20%	Static	Limited food sources	Poor	Mostly dry grassy ditch with a stagnant pool at one end.

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
27/04/2021	WB316	Pond	1	Low	Earth	High	Park / garden	R	F	R	R	R	R	R	70-80%	Static	No food sources	Poor	Densely shaded pond with bramble and small open section to the east. No food present for water vole.
27/04/2021	WB320	Ditch	1	Low	Earth	Low	Arable	R	R	A	O	R	F	A	0-10%	Slow	Good food sources	Poor	Nice ditch with grasses and herbs present. Open habitat suited to water vole.
27/04/2021	WB321	Ditch	1	Moderate	Earth	Low	Arable	O	O	F	R	O	O	F	50-60%	Slow	Good food sources	Medium	Arable ditch with bankside trees and suitable vegetation present for water vole. Adjacent to the River Cam.
27/04/2021	WB322	River	1	Moderate	Earth	High	Grassland	F	O	O	O	O	O	F	0-10%	Moderate	Limited food sources	Medium	The River Cam is regularly disturbed by boats and walkers. The east bank is suitable for water vole but the west is mostly reinforced. Sections of the river provide lots of suitable vegetation for water vole.
28/04/2021	WB017	Ditch	1	Low	Earth	None	Woodland	R	F	A	R	R	R	R	40-50%	Slow	Limited food sources	Poor	Ditch adjacent to the A14 but not disturbed. Mostly dry and covered with tall ruderals. Limited food structure for water vole.
28/04/2021	WB035	Stream	1	Low	Earth	Low	Grassland	F	F	O	R	R	R	R	70-80%	Slow	Limited food sources	Medium	A stream within the existing WWTP. Highly shaded by trees and bushes with limited vegetation structure.
28/04/2021	WB105	Stream	1	Moderate	Earth	Low	Urban / industrial	F	F	F	O	O	O	O	50-60%	Slow	Limited food sources	Medium	A stream with steep banks. Highly shaded by trees and bushes with limited vegetation structure.

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
28/04/2021	WB146	Ditch	1	Low	Earth	High	Grassland	F	R	R	R	O	R	R	80-90%	Slow	Limited food sources	Medium	Shaded ditch parallel to the River Cam. Reinforced banks would make access difficult for water vole from the River Cam.
28/04/2021	WB152	Ditch	1	None	Earth	High	Woodland	F	O	R	R	R	R	R	80-90%	N/A-dry	No food sources	Medium	Heavily shaded ditch with lots of woody debris present. Adjacent to a footpath. Dry with no suitable vegetation present.
28/04/2021	WB171	Ditch	1	Low	Earth	Moderate	Grassland	O	R	F	R	O	O	R	30-40%	Slow	Some suitable vegetation	Medium	Ditch adjacent to the River Cam. Lower banks are bare but some areas of sedge which are suitable for water vole.
28/04/2021	WB230	Ditch	1	Low	Earth	Low	Grassland	R	R	O	O	F	F	R	0-10%	Slow	Good food sources	High	Wide, open ditch adjacent to the River Cam. Suitable vegetation present for water vole.
28/04/2021	WB260	Stream	1	Low	Earth	Low	Grassland	F	O	F	R	R	F	O	30-40%	Slow	Good food sources	Medium	Stream located in the existing WWTP. Plenty of aquatic vegetation and good banks for water vole. Some areas shaded by bramble scrub.
28/04/2021	WB315	Ditch	1	None	Earth	Low	Grassland	R	R	R	R	R	R	R	10-20%	N/A-dry	No food sources	Medium	Dry ditch in horse paddock dug by landowner. No aquatic vegetation present.
28/04/2021	WB113	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Poor	Hedgerow with no ditch present.
10/05/2021	WB019	Ditch	1	None	Earth	Low	Arable	R	R	R	R	R	R	A	0-10%	N/A-dry	No food sources	Poor	Dry, grassy, isolated ditch between arable fields. Unlikely to hold significant water levels

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description	
																				and no aquatic vegetation present.
10/05/2021	WB112	Ditch	1	None	Earth	Low	Arable	O	R	A	O	O	O	A	0-10%	N/A-dry	Limited food sources	Medium	Dry grassy ditch between arable fields. May hold water seasonally. Some suitable vegetation for water vole.	
10/05/2021	WB116	Ditch	1	Low	Earth	Low	Arable	A	A	R	R	R	R	F	0-10%	Slow	Limited food sources		Arable ditch which is heavily shaded by bramble scrub. Very limited vegetation for water vole.	
10/05/2021	WB151	Ditch	1	None	Earth	Low	Arable	O	R	F	R	R	O	A	0-10%	N/A-dry	Limited food sources	Medium	Dry, arable ditch with grassy banks. Limited vegetation structure for water vole.	
10/05/2021	WB170	Ditch	1	Low	Earth	Low	Arable	R	O	A	O	R	F	A	10-20%	Slow	Good food sources	Medium	Arable ditch with suitable vegetation for water vole. Some sections shaded by bramble.	
10/05/2021	WB191	Ditch	1	Low	Earth	Low	Arable	O	R	A	O	F	F	O	10-20%	Slow	Good food sources		Grassy ditch with good vegetation structure for water vole. Steep banks with some sections shaded by bramble.	
10/05/2021	WB210	Ditch	1	Low	Earth	Low	Arable	R	O	A	O	R	F	A	10-20%	Slow	Good food sources	Medium	Arable ditch with suitable vegetation for water vole. Some sections shaded by bramble.	
10/05/2021	WB238	Ditch	1	None	Earth	Low	Arable	O	F	R	R	R	R	F	10-20%	N/A-dry	No food sources	Poor	Arable, dry ditch with steep banks. No suitable vegetation for water vole.	
10/05/2021	WB244	Ditch	1	Low	Earth	Low	Arable	R	R	F	R	F	F	A	0-10%	Slow	Good food sources	Medium	Arable ditch that is almost dry. Aquatic species present.	

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
10/05/2021	WB251	Ditch	1	None	Earth	Low	Arable	R	R	A	R	R	R	F	30-40%	N/A-dry	Limited food sources	Medium	Arable, dry ditch with grassy banks. Limited food structure for water vole. Shaded by a hedgerow on one side.
10/05/2021	WB258	Ditch	1	None	Earth	Low	Arable	R	R	A	R	R	R	A	0-10%	N/A-dry	Limited food sources	Poor	Dry grassy ditch between arable fields. Limited suitability for water vole.
10/05/2021	WB311	Ditch	1	None	Earth	Low	Arable	R	R	F	R	F	F	A	0-10%	N/A-dry	Limited food sources	Medium	Dry, arable ditch with grassy banks. Limited vegetation structure for water vole. Lots of ruderal species but no aquatic species.
11/05/2021	PD048	Pond	1	Moderate	Earth	Low	Grassland	R	R	O	A	R	R	A	10-20%	Static	Limited food sources	Poor	Small pond with grassy banks. One side shaded by bramble. Limited food sources for water vole.
11/05/2021	WB010	Ditch	1	None	Earth	Low	Arable	O	F	A	R	R	R	F	90-100%	N/A-dry	Limited food sources	Medium	Dry ditch with a hedgerow on one side. Limited vegetation for water vole.
11/05/2021	WB104	Ditch	1	None	Earth	None	Arable	F	F	F	R	R	R	F	90-100%	Slow	Limited food sources	Medium	Limited food structure for water vole.
11/05/2021	WB021	Ditch	1	None	Earth	Low	Arable	R	R	A	R	R	R	F	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch with a hedgerow on one side. Limited vegetation for water vole. Heavily shaded.
11/05/2021	WB030	Ditch	1	Low	Earth	Low	Arable	A	A	F	R	R	O	R	90-100%	Slow	Limited food sources	Poor	Limited vegetation structure with not many grasses, reeds or sedges. Shaded by lots of bramble on the banks.
11/05/2021	WB031	Ditch	1	None	Earth	Low	Arable	R	F	A	R	R	R	A	70-80%	N/A-dry	Limited food sources	Poor	Dry, grassy ditch with steep banks, between

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
11/05/2021	WB062	Ditch	1	Low	Earth	Low	Arable	A	A	F	R	R	R	R	90-100%	Slow	Limited food sources	Poor	arable fields. Heavily shaded by scrub. Limited vegetation structure with not many grasses, reeds or sedges. Shaded by lots of bramble on the banks.
11/05/2021	WB065	Ditch	1	Low	Earth	Low	Arable	A	A	F	R	R	F	R	90-100%	Slow	Limited food sources	Poor	Limited vegetation structure with not many grasses, reeds or sedges. Shaded by lots of bramble on the banks.
11/05/2021	WB114	Ditch	1	Low	Earth	Low	Arable	F	A	A	F	R	R	A	20-30%	Slow	Limited food sources	Poor	Ditch with hedgerow along one bank. Almost dry and shaded by bramble scrub. Limited food structure for water vole.
11/05/2021	WB118	Ditch	1	Low	Earth	Low	Arable	R	A	F	O	R	R	A	50-60%	Slow	Limited food sources	Poor	Ditch with hedgerow along one bank. Almost dry and shaded by bramble scrub. Limited food structure for water vole.
11/05/2021	WB122	Ditch	1	None	Earth	Low	Grassland	R	O	O	O	O	F	A	40-50%	N/A-dry	Limited food sources	Poor	Grassy ditch with limited vegetation structure for water vole.
11/05/2021	WB161	Ditch	1	None	Earth	High	Arable	R	A	R	R	R	R	R	80-90%	N/A-dry	No food sources	Poor	Dry ditch adjacent to the A14, heavily shaded by hedgerow. No suitable vegetation for water vole.
11/05/2021	WB162	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Poor	Hedgerow with no ditch present.
11/05/2021	WB183	Ditch	1	None	Earth	Low	Arable	R	R	F	R	R	R	F	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch at the edge of an arable field. Limited food structure for water vole.

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
11/05/2021	WB184	Ditch	1	None	Earth	Low	Arable	A	A	F	R	R	R	F	0-10%	N/A-dry	Limited food sources	Poor	Dry, grassy ditch with steep banks. Grasses and herb present but vegetation limited for water vole.
11/05/2021	WB199	Ditch	1	Low	Earth	Low	Arable	R	R	A	O	R	O	A	40-50%	Slow	Limited food sources	Poor	Grassy ditch with steep banks, between arable fields. Shaded in some places by scrub. Lots of tall ruderal species but vegetation limited for water vole.
11/05/2021	WB213	Ditch	1	None	Earth	High	Urban/industrial	O	R	R	R	R	O	A	10-20%	N/A-dry	No food sources	Poor	Arable ditch parallel to a road. Dry and grassy with no aquatic vegetation.
11/05/2021	WB252	Ditch	1	None	Earth	Low	Arable	O	R	R	R	R	R	F	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch at the edge of an arable field. Limited food structure for water vole.
11/05/2021	WB250	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Poor	Hedgerow with no ditch present.
02/08/2021	WB001	Ditch	2	Moderate	Earth	Moderate	Grassland	R	O	O	O	O	F	D	0-10%	Slow	Good food sources	Medium	Arable ditch adjacent to the River Cam with footpath present.
02/08/2021	WB012	Ditch	2	Low	Earth	Low	Arable	O	F	A	R	R	R	R	70-80%	Slow	Limited food sources	Medium	Heavily shaded ditch with limited suitability for water vole. Poor vegetation structure. Shaded heavily by bramble scrub.
02/08/2021	WB020	Ditch	2	Low	Earth	Low	Arable	O	F	A	R	R	R	R	70-80%	Slow	Limited food sources	Medium	Heavily shaded ditch with limited suitability for water vole. Poor vegetation structure. Shaded heavily by bramble scrub.
02/08/2021	WB316	Pond	2	Low	Earth	High	Park/garden	R	F	R	R	R	R	R	60-70%	Static	Limited food sources	Poor	Densely shaded pond with bramble and small open section to

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
02/08/2021	WB017	Ditch	2	Low	Earth	None	Woodland	R	F	A	R	R	R	R	90-100%	Slow	Limited food sources	Poor	the east. No food present for water vole. Ditch adjacent to the A14 but not disturbed. Mostly dry and covered with tall ruderals. Limited food structure for water vole.
02/08/2021	WB035	Stream	2	Low	Earth	Moderate	Woodland	F	F	O	R	R	R	R	80-90%	Slow	Limited food sources	Medium	A stream within the existing WWTP. Highly shaded by trees and bushes with limited vegetation structure.
02/08/2021	WB105	Stream	2	Moderate	Earth	Low	Urban/industrial	F	F	F	O	O	O	O	70-80%	Slow	Limited food sources	Medium	A stream with steep banks. Highly shaded by trees and bushes with limited vegetation structure.
02/08/2021	WB152	Ditch	2	None	Earth	High	Woodland	F	O	R	R	R	R	R	80-90%	N/A-dry	No food sources	Medium	Heavily shaded ditch with lots of woody debris present. Adjacent to a footpath. Dry with no suitable vegetation present.
02/08/2021	WB171	Ditch	2	Low	Earth	Moderate	Grassland	O	R	F	R	O	O	R	30-40%	Slow	Some suitable vegetation	Medium	Ditch adjacent to the River Cam. Lower banks are bare but some areas of sedge which are suitable for water vole.
02/08/2021	WB230	Ditch	2	Low	Earth	Low	Grassland	R	R	O	O	F	F	R	0-10%	Slow	Good food sources	High	Wide, open ditch adjacent to the River Cam. Suitable vegetation present for water vole.
02/08/2021	WB260	Stream	2	Low	Earth	Low	Grassland	F	O	A	O	O	F	O	60-70%	Slow	Good food sources	Medium	Stream located in the existing WWTP. Plenty of aquatic vegetation and good banks for water vole. Some

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
02/08/2021	WB315	Ditch	2	None	Earth	Low	Grassland	R	R	R	R	R	R	R	10-20%	N/A-dry	No food sources	Medium	areas shaded by bramble scrub. Dry ditch in horse paddock dug by landowner. No aquatic vegetation present.
03/08/2021	WB071	Ditch	2	Low	Earth	Low	Arable	F	R	F	R	R	R	F	10-20%	Slow	Limited food sources	Poor	Narrow drainage ditch with very steep banks. No vegetation along the banks at water level.
03/08/2021	WB080	Ditch	2	Low	Earth	Low	Arable	F	R	O	R	R	R	F	10-20%	Slow	Limited food sources	Poor	Grassy ditch with steep banks and herb cover.
03/08/2021	WB214	Ditch	2	None	Earth	Low	Arable	F	R	F	R	R	R	F	10-20%	N/A-dry	No food sources	Poor	Dry grassy ditch.
03/08/2021	WB320	Ditch	2	Low	Earth	Low	Arable	R	R	A	O	R	F	A	0-10%	Slow	Good food sources	Poor	Nice ditch with grasses and herbs present. Open habitat suited to water vole.
03/08/2021	WB321	Ditch	2	Moderate	Earth	Low	Arable	O	O	F	R	O	O	F	50-60%	Slow	Good food sources	Medium	Arable ditch with bankside trees and suitable vegetation present for water vole. Adjacent to the River Cam.
03/08/2021	WB146	Ditch	2	None	Earth	High	Grassland	F	R	R	R	F	R	R	80-90%	N/A-dry	Limited food sources	Medium	Shaded, dry ditch parallel to the River Cam. Reinforced banks would make access difficult for water vole from the River Cam.
03/08/2021	WB010	Ditch	2	None	Earth	Low	Arable	F	F	F	R	R	R	F	90-100%	N/A-dry	Limited food sources	Medium	Dry ditch with a hedgerow on one side. Limited vegetation for water vole.
03/08/2021	WB021	Ditch	2	None	Earth	Low	Arable	R	R	A	R	R	R	F	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch with a hedgerow on one side. Limited vegetation for water vole. Heavily shaded.

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
03/08/2021	WB030	Ditch	2	Low	Earth	Low	Arable	A	A	F	R	R	F	R	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch. Limited vegetation structure with not many grasses, reeds or sedges. Shaded by lots of bramble on the banks.
03/08/2021	WB062	Ditch	2	Low	Earth	Low	Arable	A	A	F	R	R	R	R	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch. Limited vegetation structure with not many grasses, reeds or sedges. Shaded by lots of bramble on the banks.
03/08/2021	WB065	Ditch	2	Low	Earth	Low	Arable	A	A	F	R	R	R	R	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch. Limited vegetation structure with not many grasses, reeds or sedges. Shaded by lots of bramble on the banks.
03/08/2021	WB104	Ditch	2	None	Earth	None	Arable	F	F	F	R	R	R	F	90-100%	Slow	Limited food sources	Medium	limited food structure for watervole.
03/08/2021	WB183	Ditch	2	None	Earth	Low	Arable	R	R	F	R	R	R	F	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch at the edge of an arable field. Limited food structure for water vole.
03/08/2021	WB252	Ditch	2	None	Earth	Low	Arable	O	R	F	R	R	R	F	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch at the edge of an arable field. Limited food structure for water vole.
06/08/2021	WB043	Ditch	2	Low	Earth	Low	Arable	R	A	A	F	R	R	F	10-20%	N/A-dry	Good food sources	Medium	Arable ditch with emergent macrophytes. Grassy banks with a hedgerow on one side.
06/08/2021	WB045	Ditch	2	None	Earth	High	Urban/industrial	F	F	F	R	R	O	F	90-100%	N/A-dry	Limited food sources	Poor	Dry ditch adjacent to a road with some shading from a hedge on one side.
06/08/2021	WB019	Ditch	2	None	Earth	Low	Arable	R	R	F	R	O	O	A	0-10%	N/A-dry	No food sources	Medium	Dry, grassy, isolated ditch between arable fields. Unlikely to hold significant water levels

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
06/08/2021	WB112	Ditch	2	None	Earth	Low	Arable	O	R	A	O	O	O	A	0-10%	N/A-dry	Limited food sources	Medium	and no aquatic vegetation present. Dry grassy ditch between arable fields. May hold water seasonally. Some suitable vegetation for water vole.
06/08/2021	WB116	Ditch	2	Low	Earth	Low	Arable	A	A	O	R	R	R	F	0-10%	Slow	Limited food sources	Medium	Arable ditch which is heavily shaded by bramble scrub. Very limited vegetation for water vole.
06/08/2021	WB151	Ditch	2	None	Earth	Low	Arable	A	A	F	R	R	R	F	0-10%	N/A-dry	Limited food sources	Medium	Dry, arable ditch with grassy banks. Limited vegetation structure for water vole.
06/08/2021	WB170	Ditch	2	Low	Earth	Low	Arable	R	O	A	O	R	F	A	0-10%	N/A-dry	Some suitable vegetation	Medium	Dry arable ditch with suitable vegetation for water vole. Some sections shaded by bramble.
06/08/2021	WB191	Ditch	2	Low	Earth	Low	Arable	O	R	A	O	F	F	O	10-20%	N/A-dry	Good food sources	Medium	Dry, grassy ditch with good vegetation structure for water vole. Steep banks with some sections shaded by bramble.
06/08/2021	WB210	Ditch	2	Low	Earth	Low	Arable	R	O	A	O	R	F	A	0-10%	N/A-dry	Good food sources	Medium	Dry, arable ditch with suitable vegetation for water vole. Some sections shaded by bramble.
06/08/2021	WB238	Ditch	2	None	Earth	Low	Arable	O	F	F	R	R	R	F	10-20%	N/A-dry	No food sources	Poor	Arable, dry ditch with steep banks. No suitable vegetation for water vole.
06/08/2021	WB244	Ditch	2	Low	Earth	Low	Arable	R	R	F	R	F	F	A	0-10%	Slow	Good food sources	Medium	Arable ditch that is almost dry. Aquatic species present.

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06/08/2021	WB251	Ditch	2	None	Earth	Low	Arable	R	R	A	R	R	R	F	0-10%	N/A-dry	Limited food sources	Medium	Arable, dry ditch with grassy banks. Limited food structure for water vole. Shaded by a hedgerow on one side.
06/08/2021	WB258	Ditch	2	None	Earth	Low	Arable	R	R	A	R	R	R	A	0-10%	N/A-dry	Limited food sources	Poor	Dry grassy ditch between arable fields. Limited suitability for water vole.
06/08/2021	WB311	Ditch	2	None	Earth	Low	Arable	R	R	F	R	F	F	A	0-10%	N/A-dry	Limited food sources	Medium	Dry, arable ditch with grassy banks. Limited vegetation structure for water vole. Lots of ruderal species but no aquatic species.
06/08/2021	PD048	Pond	2	None	Earth	Low	Grassland	R	O	O	O	O	O	O	10-20%	N/A-dry	Limited food sources	Poor	Small, dried up pond with grassy banks. One side shaded by bramble. Limited food sources for water vole.
06/08/2021	WB031	Ditch	2	None	Earth	Low	Arable	R	F	A	R	R	R	A	40-50%	N/A-dry	Limited food sources	Poor	Dry, grassy ditch with steep banks, between arable fields. Heavily shaded by scrub.
06/08/2021	WB114	Ditch	2	None	Earth	Low	Arable	F	A	A	F	R	R	A	20-30%	N/A-dry	Limited food sources	Poor	Ditch with hedgerow along one bank. Dry and shaded by bramble scrub. Limited food structure for water vole.
06/08/2021	WB118	Ditch	2	None	Earth	Low	Arable	R	A	F	O	R	R	A	50-60%	N/A-dry	Limited food sources	Poor	Ditch with hedgerow along one bank. Dry and shaded by bramble scrub. Limited food structure for water vole.
06/08/2021	WB122	Ditch	2	None	Earth	Low	Grassland	R	O	O	O	O	F	A	40-50%	N/A-dry	Limited food sources	Poor	Dry, grassy ditch with limited vegetation structure for water vole.

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
06/08/2021	WB184	Ditch	2	None	Earth	Low	Arable	A	A	F	R	R	R	F	0-10%	N/A-dry	Limited food sources	Medium	Dry, grassy ditch with steep banks. Grasses and herb present but vegetation limited for water vole.
06/08/2021	WB199	Ditch	2	None	Earth	Low	Arable	R	R	A	O	R	O	A	40-50%	N/A-dry	Limited food sources	Poor	Dry, grassy ditch with steep banks, between arable fields. Shaded in some places by scrub. Lots of tall ruderal species but vegetation limited for water vole.
06/08/2021	WB213	Ditch	2	None	Earth	High	Urban/industrial	O	R	A	R	R	O	A	10-20%	N/A-dry	Limited food sources	Poor	Dry, arable ditch parallel to a road. Dry and grassy with no aquatic vegetation.
24/08/2021	WB322	River	2	Moderate	Earth	High	Grassland	F	O	O	O	O	O	F	0-10%	Moderate	Limited food sources	Medium	The River Cam is regularly disturbed by boats and walkers. The east bank it suitable for water vole but the west is mostly reinforced. Sections of the river provide lots of suitable vegetation for water vole.
13/09/2021	WB041	Ditch	1	None	Earth	Low	Grassland	O	O	F	R	R	F	O	0-10%	N/A-dry	Limited food sources	Medium	Dry ditch. Steep sided in arable field. Limited vegetation structure for water vole.
13/09/2021	WB078	Ditch	1	Moderate	Earth	Low	Arable	R	R	R	R	R	R	F	0-10%	Slow	Limited food sources	High	Wide and deep drainage ditch that goes into the River Cam. All drains in the Waterbeach area flow through this ditch into the River Cam. Grassy banks but limited vegetation for water vole.

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13/09/2021	WB085	Ditch	1	Moderate	Earth	Low	Grassland	R	R	F	R	R	R	R	0-10%	Slow	Limited food sources	Medium	Steep sided ditch with grassy banks. Limited vegetation for water vole.
13/09/2021	WB107	Ditch	1	Low	Earth	Low	Arable	O	O	F	R	R	R	R	0-10%	Slow	Limited food sources	High	Steep sided ditch covered in duck weed. Limited vegetation for water vole.
13/09/2021	WB121	Ditch	1	Moderate	Earth	Low	Arable	R	R	R	R	R	R	F	0-10%	Slow	Limited food sources	Medium	Steep sided ditch with grassy banks. Limited vegetation for water vole.
13/09/2021	WB129	Ditch	1	Moderate	Earth	Low	Arable	R	R	F	R	R	R	A	0-10%	Slow	Limited food sources	Medium	Steep sided ditch adjacent to the road and arable land. Limited vegetation for water vole.
13/09/2021	WB178	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Poor	No ditch present.
13/09/2021	WB182	Ditch	1	Low	Earth	Low	Grassland	O	O	F	R	R	F	O	0-10%	Slow	Limited food sources	Medium	Small ditch with limited vegetation for water vole. Steep, grassy banks with tall ruderal vegetation.
13/09/2021	WB185	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Medium	No ditch present.
13/09/2021	WB203	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Medium	No ditch present.
13/09/2021	WB205	Ditch	1	None	Earth	Low	Arable	O	F	R	R	R	R	R	90-100%	N/A-Dry	No food sources	Poor	Dry ditch shaded by bramble scrub.
13/09/2021	WB220	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Medium	No ditch present.
13/09/2021	WB225	Ditch	1	None	Earth	Low	Arable	R	F	R	R	R	R	R	0-10%	N/A-Dry	No food sources	Medium	Dry ditch shaded by bramble scrub.
13/09/2021	WB234	Ditch	1	Low	Earth	Low	Grassland	O	O	F	R	R	F	O	0-10%	Slow	Good food sources	High	Ditch with some vegetation for water vole. Steep, grassy banks.

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13/09/2021	WB242	Ditch	1	None	Earth	Low	Arable	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Poor	No ditch present.
13/09/2021	WB245	Ditch	1	Moderate	Earth	Low	Arable	R	R	R	R	R	R	R	0-10%	Slow	Limited food sources	Medium	Steep sided ditch with gassy banks. Limited vegetation structure for water vole. Open habitat suitable for water vole.
13/09/2021	WB253	Ditch	1	Moderate	Earth	Low	Arable	R	A	O	R	R	R	R	20-30%	Slow	Limited food sources	Medium	Ditch with steep banks. Partially shaded by hedgerow and bramble. No vegetation in channel.
13/09/2021	WB264	Ditch	1	Moderate	Earth	Low	Arable	R	R	R	R	R	R	R	0-10%	Slow	Limited food sources	Medium	Steep sided ditch with gassy banks. Limited vegetation structure for water vole. Open habitat suitable for water vole.
13/09/2021	WB300	Ditch	1	None	Earth	Low	Arable	R	R	R	R	R	R	F	0-10%	N/A-Dry	No food sources	Poor	Dry grassy ditch with no aquatic vegetation.
13/09/2021	WB301	Ditch	1	None	Earth	Low	Arable	R	R	R	R	R	R	F	0-10%	N/A-Dry	No food sources	Medium	Dry grassy ditch with no aquatic vegetation.
13/09/2021	WB318	Ditch	1	Moderate	Earth	Moderate	Arable	R	R	O	O	A	O	O	0-10%	Slow	Good food sources	Poor	Arable ditch with steep grassy banks. Suitable vegetation for water vole.
13/09/2021	WB319	Ditch	1	Moderate	Earth	Low	Grassland	R	R	R	R	R	R	R	0-10%	Slow	Limited food sources	Medium	Ditch with steep banks. Partially shaded by hedgerow and bramble. No vegetation in channel.
16/09/2021	WB008	Ditch	1	None	Silt	Low	Arable	R	R	R	R	R	R	F	0-10%	N/A-Dry	No food sources	Poor	Dry ditch adjacent to road. Very open and exposed. Leaf litter present in channel. No suitable vegetation for water vole.
16/09/2021	WB055	Ditch	1	Low	Silt	Low	Arable	R	R	A	O	R	O	R	0-10%	Slow	Good food sources	High	Well vegetated ditch with steep sides in an arable field. Suitable

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16/09/2021	WB059	Ditch	1	Low	Earth	Low	Arable	A	A	R	R	R	R	F	40-50%	Slow	Limited food sources	Medium	aquatic vegetation present. Dry ditch adjacent to road. Very open and exposed. Leaf litter present in channel. No suitable vegetation for water vole.
16/09/2021	WB092	Ditch	1	None	Earth	Moderate	Arable	O	O	R	R	R	R	R	20-30%	N/A-Dry	No food sources	Poor	Dry grassy ditch with no aquatic vegetation.
16/09/2021	WB123	Ditch	1	Low	Silt	Low	Arable	R	O	F	R	F	F	R	10-20%	Slow	Good food sources	High	Long ditch partly dry, covered in duck weed. Lots of aquatic vegetation present for water vole. Some areas shaded by overhanging scrub. Parallel to the River Cam.
16/09/2021	WB141	Ditch	1	Low	Silt	Low	Arable	R	O	D	A	R	A	O	0-10%	Slow	Good food sources	Medium	Well vegetated ditch with large areas of lesser reedmace. Good vegetation structure for water vole.
16/09/2021	WB155	Ditch	1	None	Earth	Low	Arable	R	A	O	R	R	R	O	80-90%	N/A-Dry	No food sources	Poor	Dry ditch heavily shaded by bramble scrub. No suitable vegetation for water vole.
16/09/2021	WB211	Ditch	1	None	Earth	Low	Crop	O	A	R	R	R	R	A	90-100%	N/A-Dry	No food sources	Poor	Dry ditch heavily shaded by bramble scrub. No suitable vegetation for water vole.
16/09/2021	WB215	Ditch	1	Low	Silt	Low	Arable	R	R	O	R	D	R	F	0-10%	Slow	Good food sources	High	Arable ditch with grassy banks. Ditch dominated by sedge.
16/09/2021	WB297	Ditch	1	None	Earth	Low	Arable	R	R	F	R	R	R	A	0-10%	N/A-Dry	Limited food sources	Medium	Dry grassy ditch with no aquatic vegetation.

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16/09/2021	WB160	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Medium	Hedgerow with no ditch present.
16/09/2021	WB256	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Medium	Hedgerow with no ditch present.
28/09/2021	PD047	Pond	1	Low	Sand	Low	Arable	D	F	A	R	O	R	R	80-90%	Static	Good food sources	Medium	Pond in an area of woodland. Good vegetation structure. Heavily shaded by trees and scrub present. Very shallow with very little bank present.
28/09/2021	WB039	Ditch	1	None	Silt	Low	Arable	O	O	O	R	F	R	R	30-40%	N/A-Dry	Good food sources	Medium	Arable ditch with lots of common reed present. Shaded by trees and scrub.
28/09/2021	WB056	Ditch	1	None	Silt	Low	Arable	O	R	R	R	R	R	R	60-70%	N/A-dry	No food sources	Medium	Dry ditch. Overgrown with bramble and no aquatic vegetation.
28/09/2021	WB060 /WB308	Ditch	1	Moderate	Silt	Low	Arable	R	R	R	R	R	R	D	0-10%	Slow	Limited food sources	Medium	Arable ditch with short grassy banks. Vegetation structure is limited.
28/09/2021	WB064	Ditch	1	Low	Silt	Low	Arable	R	R	R	R	R	R	D	0-10%	Slow	Limited food sources	Medium	Arable ditch with short grassy banks. Vegetation structure is limited.
28/09/2021	WB083	Ditch	1	Low	Silt	Low	Arable	R	R	R	R	R	R	D	0-10%	Slow	Limited food sources	Medium	Arable ditch with short grassy banks. Vegetation structure is limited.
28/09/2021	WB087	Ditch	1	N/A- no ditch present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Poor	Hedgerow with no ditch present.
28/09/2021	WB089	Ditch	1	Low	Silt	Low	Arable	R	R	R	R	R	R	F	0-10%	Slow	Limited food sources	Medium	Arable ditch with short grassy banks. Vegetation structure is limited.

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28/09/2021	WB106	Ditch	1	None	Silt	Low	Arable	O	O	O	R	O	A	R	10-20%	N/A-Dry	Limited food sources	Medium	Dry, shallow arable ditch. Some suitable vegetation. Shaded at one end by trees and scrub.
28/09/2021	WB120	Ditch	1	None	Silt	Low	Arable	R	R	R	R	R	R	F	0-10%	N/A-Dry	Limited food sources	Medium	Arable ditch with short grassy banks. Vegetation structure is limited.
28/09/2021	WB158 /WB309	Ditch	1	Low	Silt	Low	Arable	F	F	R	R	R	F	O	30-40%	Slow	Limited food sources	Medium	Arable ditch with steep banks. Some suitable vegetation for water vole but limited.
28/09/2021	WB159	Ditch	1	Low	Silt	Low	Grassland	R	O	R	R	R	R	D	0-10%	Slow	Limited food sources	Medium	Arable ditch with steep banks. Some suitable vegetation for water vole but limited.
28/09/2021	WB206	Ditch	1	None	Silt	Low	Arable	O	O	O	R	R	R	O	10-20%	N/A-dry	No food sources	Medium	Arable ditch with no evidence of aquatic vegetation. Ruderal vegetation present with some trees shading the ditch.
28/09/2021	WB240	Ditch	1	None	Silt	Low	Grassland	O	O	R	R	R	R	D	30-40%	N/A-Dry	Limited food sources	Medium	Dry ditch, heavily scrubbed over with vegetation. no aquatic vegetation present. Adjacent to boat yard.
30/09/2021	PD008	Pond	1	Moderate	Gravel	Low	Arable	R	F	R	R	O	O	O	0-10%	Static	Some suitable vegetation	Medium	Arable reservoir surrounded by scattered scrub. Banks are shallow and bare. Some aquatic vegetation present in small areas.
30/09/2021	WB007	Ditch	1	None	Silt	Low	Arable	R	O	R	R	R	R	R	0-10%	N/A-dry	Limited food sources	Medium	Dry, arable ditch shaded by bramble scrub.
30/09/2021	WB047	Ditch	1	None	Silt	Low	Arable	O	O	O	R	R	R	R	0-10%	N/A-dry	Limited food sources	Medium	Dry, arable ditch shaded by bramble scrub.

Date	Waterbody ID	Waterbody type	Visit number	Water level	Shore bank type	Disturbance	Bordering land use	Bankside trees	Bushes	Herbs	Submerged weed	Reeds sedges	Tall grasses	Short grasses	Level of shading	Rate of flow	Food availability	Connectivity	Habitat description
30/09/2021	WB061	Ditch	1	None	Silt	Low	Arable	O	O	O	R	R	R	R	0-10%	N/A-dry	Limited food sources	Medium	Dry arable ditch. Limited vegetation structure.
30/09/2021	WB091	Ditch	1	None	Silt	Low	Arable	O	O	F	R	O	R	R	0-10%	N/A-dry	Limited food sources	Medium	Dry arable ditch. Limited vegetation structure.
30/09/2021	WB175	Ditch	1	None	Earth	Low	Arable	O	O	F	R	O	R	R	0-10%	N/A-dry	Limited food sources	Medium	Dry arable ditch. Limited vegetation structure.
30/09/2021	WB208	Ditch	1	None	Silt	Low	Arable	O	O	F	R	O	R	R	0-10%	N/A-dry	Limited food sources	Medium	Arable dry ditch with grassy banks. Limited vegetation structure.
30/09/2021	WB232	Ditch	1	Low	Silt	Low	Arable	O	O	F	R	O	R	R	0-10%	Slow	Some suitable vegetation	Medium	Arable ditch with soe suitable vegetation for water vole.
30/09/2021	WB291	Ditch	1	Low	Silt	Low	Arable	F	F	O	R	R	R	F	40-50%	Slow	Limited food sources	Medium	Arable ditch with grassy banks. No vegetation in the channel. Shaded by scrub.
30/09/2021	WB292	Ditch	1	Low	Silt	Low	Arable	O	O	F	R	O	R	R	0-10%	Slow	Good food sources	Medium	Arable ditch adjacent to a footpath. Lots of ruderal species and grasses present.
30/09/2021	WB294	Ditch	1	None	Silt	Low	Arable	O	O	R	R	R	R	R	0-10%	N/A-dry	No food sources	Medium	Dry arable ditch. Limited vegetation structure.
30/09/2021	WB295	Ditch	1	None	Earth	Low	Arable	O	O	R	R	R	R	R	0-10%	N/A-dry	No food sources	Medium	Dry arable ditch. Limited vegetation structure.
30/09/2021	WB003	Ditch	1	None	Earth	Low	Arable	R	R	R	R	R	R	F	0-10%	N/A-dry	No food sources	Medium	Dry grassy ditch in arable fields. No aquatic vegetation present.

5.5 Water vole field signs table

Date	Waterbody ID	Survey type	Grid reference	Field sign	Notes
13/04/2021	WB321	Incidental sighting	TL4842061756	Other	Sighting of water vole being eaten by a heron.
21/04/2021	WB100	Walked transect	TL4877661881	Latrine	Identified during other surveys.
21/04/2021	WB100	Incidental sighting	TL4878161881	Latrine	Identified during other surveys.
21/04/2021	WB100	Incidental sighting	TL4877661870	Burrow	With droppings outside. Identified during other surveys.
21/04/2021	WB100	Incidental sighting	TL4877961875	Burrow	Identified during other surveys.
21/04/2021	WB100	Incidental sighting	TL4878161885	Burrow	Identified during other surveys.
21/04/2021	WB100	Incidental sighting	TL4877561862	Burrow	Identified during other surveys. Some footprints.
27/04/2021	River Cam (WB322)	Boat transect	TL4839561697	Burrow	Burrow in the bank.
27/04/2021	River Cam (WB322)	Boat transect	TL4839661702	Latrine	1 latrine.
27/04/2021	River Cam (WB322)	Boat transect	TL4839561702	Burrow	In the top of the bank.
27/04/2021	River Cam (WB322)	Boat transect	TL4839461703	Burrow	Burrow in the bank.
27/04/2021	River Cam (WB322)	Boat transect	TL4831361096	Burrow	4 burrows in bank, likely water vole. Possible latrine in entrance.
27/04/2021	River Cam (WB322)	Boat transect	TL4832561141	Latrine	2 burrows and 2 latrines.

27/04/2021	River Cam (WB322)	Boat transect	TL4832961253	Burrow	2 burrows.
27/04/2021	River Cam (WB322)	Boat transect	TL4833661290	Latrine	Old latrine on log.
27/04/2021	River Cam (WB322)	Boat transect	TL4834161344	Latrine	1 latrine.
27/04/2021	River Cam (WB322)	Boat transect	TL4835761401	Latrine	Droppings on plank of wood.
27/04/2021	River Cam (WB322)	Boat transect	TL4839061614	Latrine	With feeding remains.
27/04/2021	River Cam (WB322)	Boat transect	TL4839661615	Latrine	1 latrine.
27/04/2021	River Cam (WB322)	Boat transect	TL4839061634	Latrine	1 latrine.
27/04/2021	River Cam (WB322)	Boat transect	TL4839561631	Burrow	Burrow in the bank.
27/04/2021	River Cam (WB322)	Boat transect	TL4839961661	Burrow	With old droppings in entrance.
27/04/2021	River Cam (WB322)	Boat transect	TL4839261684	Burrow	With latrine outside.
27/04/2021	River Cam (WB322)	Boat transect	TL4839761693	Burrow	In top of the bank.
27/04/2021	River Cam (WB322)	Boat transect	TL4839761742	Burrow	Burrow in bank.
27/04/2021	River Cam (WB322)	Boat transect	TL4840761798	Burrow	Burrows in bank behind bramble.
27/04/2021	WB001	Walked transect	TL4841561645	Latrine	2 latrines.
27/04/2021	WB001	Walked transect	TL4841661676	Burrow	Burrow in bank.

27/04/2021	WB001	Walked transect	TL4841161711	Burrow	Burrow leading to water with feeding signs.
27/04/2021	WB001	Walked transect	TL4840861718	Latrine	1 latrine.
27/04/2021	WB001	Walked transect	TL4841061739	Latrine	2 latrines.
27/04/2021	WB001	Walked transect	TL4840961722	Latrine	1 latrine.
27/04/2021	WB001	Walked transect	TL4840961731	Latrine	1 latrine.
27/04/2021	WB321	Walked transect	TL4843261750	Burrow	Two burrows in bank.
27/04/2021	WB321	Walked transect	TL4842661753	Burrow	Burrow in bank.
27/04/2021	WB321	Walked transect	TL4843461750	Burrow	Droppings outside entrance.
27/04/2021	WB321	Walked transect	TL4847061732	Latrine	1 latrine.
27/04/2021	WB321	Walked transect	TL4846561735	Burrow	Two burrows.
27/04/2021	WB321	Walked transect	TL4856561690	Burrow	On opposite bank.
27/04/2021	WB320	Walked transect	TL4889261685	Latrine	1 latrine.
27/04/2021	WB320	Walked transect	TL4888161653	Feeding remains	Feeding remains outside burrow.
28/04/2021	WB260	Walked transect	TL4806261658	Latrine	1 latrine.
28/04/2021	WB260	Walked transect	TL4805361663	Burrow	Burrow in the bank.
28/04/2021	WB017	Walked transect	TL4805361660	Latrine	Under bridge.
28/04/2021	WB260	Walked transect	TL4803061618	Burrow	Burrow in the bank.
28/04/2021	WB260	Walked transect	TL4801661599	Burrow	2 burrows.
28/04/2021	WB260	Walked transect	TL4801161565	Burrow	2 burrows.
28/04/2021	WB260	Walked transect	TL4787661343	Burrow	Burrow in the bank.
28/04/2021	WB105	Walked transect	TL4719161180	Latrine	2 latrines.
28/04/2021	WB105	Walked transect	TL4718861186	Latrine	1 latrine.
28/04/2021	WB105	Walked transect	TL4716561205	Latrine	1 latrine.
28/04/2021	WB105	Walked transect	TL4716861204	Burrow	Leading to water.
28/04/2021	WB105	Walked transect	TL4713861232	Latrine	1 latrine.
28/04/2021	WB105	Walked transect	TL4706361278	Burrow	Burrow in the bank.

28/04/2021	WB095	Incidental sighting	TL4810861740	Burrow	Water vole burrow identified during other surveys.
28/04/2021	WB171	Incidental sighting	TL4826461843	Other	Report of water vole signs during other surveys.
10/05/2021	WB045	Walked transect	TL5034359574	Latrine	Old water vole latrine.
10/05/2021	WB191	Walked transect	TL5048160242	Latrine	Latrine, burrow and feeding remains.
10/05/2021	WB191	Walked transect	TL5049560245	Feeding remains	One pile of feeding remains.
10/05/2021	WB191	Walked transect	TL5050160244	Feeding remains	One pile of feeding remains.
10/05/2021	WB191	Walked transect	TL5050560247	Feeding remains	One pile of feeding remains.
10/05/2021	WB191	Walked transect	TL5051260247	Latrine	1 latrine.
02/08/2021	WB260	Walked transect	TL4798561532	Footprint	Footprints seen in mud by the water.
02/08/2021	WB105	Walked transect	TL4707061281	Latrine	Droppings at edge on north bank.
02/08/2021	WB105	Walked transect	TL4707661276	Footprint	South bank at edge of water course.
02/08/2021	WB171	Walked transect	TL4832661761	Latrine	Sample taken. Water vole droppings. Not fresh.
02/08/2021	WB171	Walked transect	TL4831861771	Feeding remains	One pile of feeding remains.
02/08/2021	WB171	Walked transect	TL4834061742	Latrine	On the north bank.
02/08/2021	WB171	Incidental sighting	TL4824361871	Burrow	Identified during surveys for other species. Burrow with potential areas of footprints and some chewed vegetation.
02/08/2021	WB001	Walked transect	TL4840861718	Latrine	1 latrine.
02/08/2021	WB001	Walked transect	TL4840961654	Run	Up through bank vegetation.

03/08/2021	WB321	Walked transect	TL4852861711	Burrow	Water vole burrow on opposite bank.
03/08/2021	WB321	Walked transect	TL4852461713	Burrow	Three holes on opposite bank.
03/08/2021	WB321	Walked transect	TL4850561717	Burrow	Burrow with dropping outside.
03/08/2021	WB001	Walked transect	TL4845861826	Latrine	Droppings on north west bank.
23/08/2021	River Cam (WB322)	Boat transect	TL4839661662	Other	Feeding remains and potential run through vegetation.
24/08/2021	River Cam (WB322)	Boat transect	TL4832961239	Latrine	1 latrine.
24/08/2021	River Cam (WB322)	Boat transect	TL4833261341	Latrine	1 latrine.
24/08/2021	River Cam (WB322)	Boat transect	TL4834761347	Latrine	1 latrine.
24/08/2021	River Cam (WB322)	Boat transect	TL4839361629	Latrine	Difficult to discern droppings from soil on photograph.
24/08/2021	River Cam (WB322)	Boat transect	TL4845161867	Burrow	Hole above water line, potentially water vole. May no longer be in use.
16/09/2021	WB141	Walked transect	TL5053865507	Footprint	Possible water vole footprints on south bank but no safe access to confirm.

16/09/2021	WB141	Walked transect	TL5056465507	Other	Heard water vole going into the water.
16/09/2021	WB141	Walked transect	TL5057465507	Run	Run into ditch on north side.
16/09/2021	WB141	Walked transect	TL5059565503	Latrine	Latrine on south bank.
16/09/2021	WB141	Walked transect	TL5059665503	Latrine	Latrine on south bank.
16/09/2021	WB141	Walked transect	TL5059565504	Latrine	Latrine on north bank.
16/09/2021	WB141	Walked transect	TL5061365500	Latrine	Latrine on south bank.
16/09/2021	WB141	Walked transect	TL5061165501	Latrine	Latrine on south bank.
16/09/2021	WB141	Walked transect	TL5063465495	Latrine	1 latrine.
16/09/2021	WB141	Walked transect	TL5063665501	Latrine	Latrine on south bank.
03/11/2021	WB171	Walked transect	TL4888661665	Latrine	A few droppings along the bank. Identified during otter surveys.

04/11/2021	WB001	Walked transect	TL4846361739	Latrine	2 latrines. Identified during otter surveys.
04/11/2021	WB320	Walked transect	TL4843861807	Latrine	Latrine with feeding signs and burrow. Identified during otter surveys.
04/11/2021	WB321	Walked transect	TL4846761737	Latrine	Identified during otter surveys.
04/11/2021	WB321	Walked transect	TL4847161737	Latrine	Identified during otter surveys.
04/11/2021	WB321	Walked transect	TL4847961730	Run	With latrine and burrow. Identified during otter surveys.
24/11/2021	WB260	Walked transect	TL4805761663	Latrine	Some fresh, some old. Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4805661667	Latrine	Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4806461662	Latrine	Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4805961659	Latrine	2 latrines. Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4805961659	Burrow	3 burrows. Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4806061659	Latrine	3 latrines. Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4800361567	Latrine	Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4799361549	Latrine	Identified during November otter survey.
24/11/2021	WB260	Walked transect	TL4799461548	Burrow	Identified during November otter survey.
24/11/2021	WB105	Walked transect	TL4706561284	Burrow	Identified during November otter survey.

24/11/2021	WB105	Walked transect	TL4706661283	Burrow	Identified during November otter survey.
24/11/2021	WB171	Walked transect	TL4834261751	Latrine	2 latrines. Identified during November otter survey.
24/11/2021	WB171	Walked transect	TL4834161754	Latrine	Identified during November otter survey.
24/11/2021	WB171	Walked transect	TL4833161757	Latrine	2 droppings on log. Identified during November otter survey.
24/11/2021	WB043	Walked transect	TL4980959758	Latrine	Identified during November otter survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4830561092	Burrow	2 burrows.
16/12/2021	River Cam (WB322)	Boat transect	TL4834561353	Latrine	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4834861351	Latrine	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4834861356	Latrine	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4834861357	Latrine	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4836261435	Latrine	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4840161666	Burrow	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4839961675	Feeding remains	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4839961682	Burrow	Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4839861688	Latrine	Identified during December otter boat survey.

16/12/2021	River Cam (WB322)	Boat transect	TL4840061744	Latrine	And burrow. Identified during December otter boat survey.
16/12/2021	River Cam (WB322)	Boat transect	TL4840261752	Latrine	Identified during December otter boat survey.
05/01/2022	WB141	Walked transect	TL5050965520	Latrine	1 latrine.
05/01/2022	WB141	Walked transect	TL5050365518	Burrow	Burrow in the bank.
05/01/2022	WB141	Walked transect	TL5052165516	Burrow	Burrow in the bank.
05/01/2022	WB141	Walked transect	TL5057665509	Burrow	Burrow in the bank.
22/01/2022	WB260	Walked transect	TL4806061668	Latrine	Old water vole latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4832961190	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4833361295	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4833861299	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4834861355	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4839461626	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4839561634	Latrine	With feeding remains.
28/03/2022	River Cam (WB322)	Boat transect	TL4839561636	Feeding remains	With droppings.

28/03/2022	River Cam (WB322)	Boat transect	TL4839861653	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4839861663	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4839961670	Latrine	1 latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4841461817	Burrow	With latrine.
28/03/2022	River Cam (WB322)	Boat transect	TL4847861899	Latrine	2 latrines.
14/04/2022	WB123	Walked transect	TL5058464937	Other	Water vole sighting. Seen on the bank then went under the water.
13/04/2022	WB253	Walked transect	TL5047165540	Other	Water vole sighting.
05/05/2022	WB264	Walked transect	TL5078966030	Latrine	Latrine on raft.
05/05/2022	WB318	Walked transect	TL5075166113	Latrine	Latrine on raft.
05/05/2022	WB318	Walked transect	TL5068166128	Latrine	Latrine on raft.
05/05/2022	WB159	Walked transect	TL5039665811	Other	Potential sighting, plop and scurry into burrow and feeding signs.
05/05/2022	WB159	Walked transect	TL5036665811	Sighting	Seen going from bank into the water.
06/05/2022	WB234	Walked transect	TL5032165177	Latrine	Latrine on raft.
05/05/2022	WB141	Walked transect	TL5064965497	Latrine	Latrine on raft.
05/05/2022	WB141	Walked transect	TL5063465501	Latrine	1 latrine.
05/05/2022	WB141	Walked transect	TL5063765495	Burrow	Burrow in the bank.
05/05/2022	WB141	Walked transect	TL5061765500	Latrine	Latrine on raft.
05/05/2022	WB141	Walked transect	TL5056965505	Latrine	Latrine on raft.
05/05/2022	WB141	Walked transect	TL5052065513	Latrine	Latrine on raft.
05/05/2022	WB141	Walked transect	TL5050765517	Latrine	Latrine on raft.
05/05/2022	WB078	Walked transect	TL5053565785	Latrine	Latrine on raft.
05/05/2022	WB078	Walked transect	TL5059165778	Latrine	Latrine on raft.

05/05/2022	WB078	Walked transect	TL5060865776	Latrine	Latrine on raft.
05/05/2022	WB085	Walked transect	TL5050565691	Latrine	Latrine on raft.
05/05/2022	WB085	Walked transect	TL5050565691	Latrine	Latrine on raft.
05/05/2022	WB234	Walked transect	TL5048965642	Latrine	Latrine on raft.
05/05/2022	WB234	Walked transect	TL5032065179	Burrow	Trail in the submerged vegetation with small clearing on bank.
05/05/2022	WB234	Walked transect	TL5031865160	Latrine	1 latrine.
05/05/2022	WB234	Walked transect	TL5031565137	Latrine	1 latrine.
05/05/2022	WB234	Walked transect	TL5031265112	Latrine	1 latrine.
05/05/2022	WB234	Walked transect	TL5031065112	Burrow	Trail in submerged vegetation to raft and bank.
18/05/2022	WB064	Walked transect	TL5041766363	Latrine	1 latrine.
18/05/2022	WB234	Walked transect	TL5031765186	Latrine	1 latrine.
19/05/2022	WB243	Walked transect	TL5084265995	Latrine	1 latrine.
19/05/2022	River Cam (WB322)	Walked transect	TL4925062929	Latrine	Dried out droppings.
20/05/2022	River Cam (WB322)	Walked transect	TL4925062929	Latrine	1 latrine.
09/06/2022	WB264	Walked transect	TL5074465283	Latrine	Latrine on raft.
09/06/2022	WB318	Walked transect	TL5078866046	Latrine	Latrine on raft.
09/06/2022	WB318	Walked transect	TL5077766109	Latrine	Latrine on raft.
09/06/2022	WB318	Walked transect	TL5075166114	Latrine	Latrine on raft.
09/06/2022	WB318	Walked transect	TL5073566116	Latrine	Latrine on raft.
09/06/2022	WB318	Walked transect	TL5069866125	Latrine	Latrine on raft
09/06/2022	WB129	Walked transect	TL5068166129	Latrine	Latrine on raft.
09/06/2022	WB141	Walked transect	TL5052065786	Latrine	Latrine on raft.
09/06/2022	WB141	Walked transect	TL5053665511	Latrine	Latrine on raft.
09/06/2022	WB141	Walked transect	TL5052265518	Sighting	Seen while conducting raft surveys.
10/06/2022	WB055	Walked transect	TL5050165520	Latrine	Latrine on raft.

10/06/2022	WB055	Walked transect	TL5044864844	Latrine	Latrine on raft.
10/06/2022	WB055	Walked transect	TL5046264830	Latrine	Latrine on raft.
10/06/2022	WB055	Walked transect	TL5047764819	Latrine	Latrine on raft.
10/06/2022	WB055	Walked transect	TL5049664802	Latrine	Latrine on raft.
10/06/2022	WB055	Walked transect	TL5051264789	Latrine	Latrine on raft.
10/06/2022	WB055	Walked transect	TL5052664777	Latrine	Latrine on rafts.
10/06/2022	WB215	Walked transect	TL5054264763	Latrine	Latrine on raft.
10/06/2022	WB215	Walked transect	TL5040164641	Latrine	Latrine on raft.
10/06/2022	WB215	Walked transect	TL5036564669	Latrine	Latrine on raft.
24/06/2022	WB141	Walked transect	TL5063165499	Latrine	Latrine on raft.
24/06/2022	WB141	Walked transect	TL5056865506	Latrine	Latrine on raft.
07/07/2022	WB253	Walked transect	TL5048165576	Latrine	Latrine on raft.
07/07/2022	WB253	Walked transect	TL5047565558	Latrine	Latrine on raft.
07/07/2022	WB107	Walked transect	TL5044365371	Latrine	Latrine on raft.
07/07/2022	WB121	Walked transect	TL5080666149	Latrine	Latrine on raft.
07/07/2022	WB121	Walked transect	TL5081366191	Latrine	Latrine on raft.
07/07/2022	WB121	Walked transect	TL5081366191	Other	Water vole sighting.
07/07/2022	WB121	Walked transect	TL5077366110	Other	Water vole sighting.
07/07/2022	WB318	Walked transect	TL5077366110	Latrine	Latrine on raft.
07/07/2022	WB318	Walked transect	TL5056865506	Latrine	Latrine on raft.
07/07/2022	WB141	Walked transect	TL5063465496	Latrine	Latrine on raft.
07/07/2022	WB141	Walked transect	TL5048066616	Latrine	Latrine on raft.
07/07/2022	WB120	Walked transect	TL5048066616	Latrine	Latrine on raft.
07/07/2022	WB120	Walked transect	TL5045966552	Latrine	Latrine on raft.
07/07/2022	WB120	Walked transect	TL5042665803	Latrine	Latrine on raft.
07/07/2022	WB159	Walked transect	TL5032365214	Latrine	Latrine on raft.
08/07/2022	WB234	Walked transect	TL5032465212	Latrine	Latrine on raft.
08/07/2022	WB234	Walked transect	TL5032465212	Latrine	Latrine on raft.

08/07/2022	WB234	Walked transect	TL5029965049	Latrine	Latrine on raft.
08/07/2022	WB234	Walked transect	TL5047864821	Latrine	Latrine on raft.
08/07/2022	WB055	Walked transect	TL5045864880	Latrine	Latrine on raft.
08/07/2022	WB123	Walked transect	TL5056064928	Latrine	Latrine on raft.
08/07/2022	WB123	Walked transect	TL5077466108	Latrine	Latrine on raft.
15/08/2022	WB318	Walked transect	TL5075466113	Latrine	Latrine on raft.
15/08/2022	WB318	Walked transect	TL5053765509	Latrine	Latrine on raft.
16/08/2022	WB141	Walked transect	TL5056765503	Latrine	Latrine on raft.
16/08/2022	WB141	Walked transect	TL4983762798	Latrine	Latrine on raft.

Source: Mott MacDonald Ltd, 202

Get in touch

You can contact us by:



Emailing at info@cwwtpr.com



Calling our Freephone information line on **0808 196 1661**



Writing to us at **Freepost: CWWTPR**



Visiting our website at 

You can view all our DCO application documents and updates on the application on The Planning Inspectorate website:

<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/cambridge-waste-water-treatment-plant-relocation/>