

February 2023

London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents
5.02 Appendix 13.1 Open Space Survey Methodology

Application Document Ref: TR020001/APP/5.02
APFP Regulation: 5(2)(a)

The Planning Act 2008

**The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009**

**London Luton Airport Expansion Development Consent
Order 202x**

**5.02 ENVIRONMENTAL STATEMENT APPENDIX 13.1 OPEN SPACE
SURVEY METHODOLOGY**

Regulation number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR020001
Document Reference:	TR020001/APP/5.02
Author:	Luton Rising

Version	Date	Status of Version
Issue 01	February 2023	Application issue

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1 INTRODUCTION

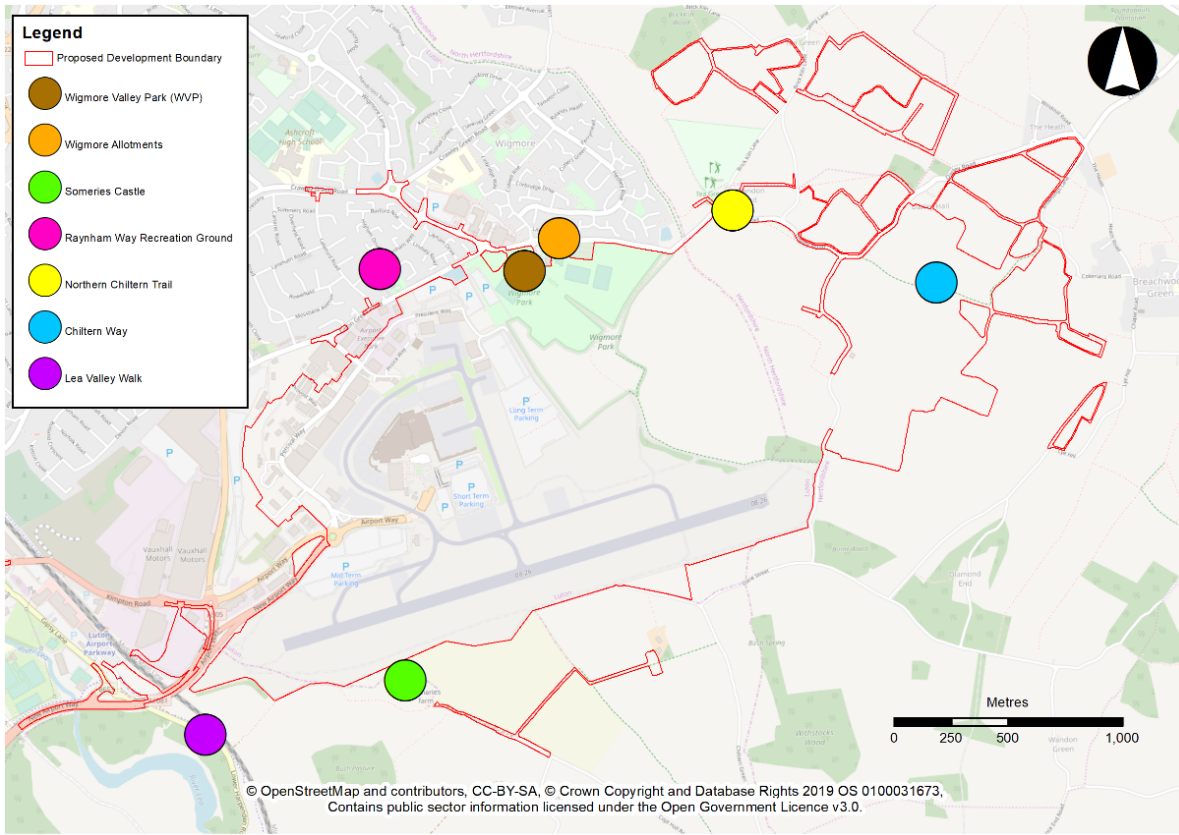
- 1.1.1 The document is an appendix to the Environmental Statement (ES) submitted as part of Luton Rising's application for development consent to expand London Luton Airport (the airport) from the currently permitted capacity of 18 million passengers per annum (mppa) to 32 mppa (the Proposed Development, as described in **Chapter 4** of the ES [TR020001/APP/5.01]).
- 1.1.2 This Appendix sets out the context, methodology and results of open space surveys undertaken to inform the Health and Community assessment reported in **Chapter 13** of the ES [TR020001/APP/5.01].
- 1.1.3 Open space surveys have been undertaken in the study area (as defined in **Chapter 13** of this ES [TR020001/APP/5.01]) to gather data on the usage patterns and quality of open spaces near the Proposed Development. The following types of surveys have been undertaken:
- a. Open space quality assessments;
 - b. Open space user counts; and,
 - c. Open space user questionnaires.
- 1.1.4 The information collected informed the assessment of the impacts of the Proposed Development on local community resources.
- 1.1.5 Surveys have been undertaken as follows:
- a. Spring 2019 (quality assessments, user counts and user questionnaires);
 - b. Early Summer 2019 (user counts and user questionnaires);
 - c. Late Summer 2019 (user counts and user questionnaires); and,
 - d. Autumn 2019 (user counts and user questionnaires).
- 1.1.6 The surveys were undertaken prior to any changes in usage resulting from the Covid-19 lockdowns, and represent the last year during which the airport was operating normally at near permitted capacity. These surveys are considered to remain valid as the open spaces and rights of way have not been notably altered and represent baseline conditions when the airport was operating at permitted levels, further surveys were therefore not required.
- 1.1.7 Community resources surveyed were selected through desk studies and consultation with the Local Planning Authority.
- 1.1.8 The methodology set out below was shared with Luton Borough Council and feedback incorporated where appropriate.

2 METHODOLOGY

2.1 Quality assessments

- 2.1.1 The purpose of undertaking quality assessments was to verify resources identified via desk studies. Open space quality assessments gather data on the condition and context of community resources and on the sensitivity of resources and receptors, allowing informed judgements to be made about the likely levels and nature of usage, and of the magnitude of impact of the Proposed Development.
- 2.1.2 Quality assessments are not typically seasonal, since the quality of an open space is unlikely to vary from season to season. A single series of quality assessments has therefore been undertaken in Spring 2019.
- 2.1.3 Quality assessment locations are those considered most likely to have significant direct or in-combination effects from the Proposed Development, i.e. those within the Order Limits or directly adjacent.
- 2.1.4 Quality assessments have been undertaken at the following seven locations:
- a. Wigmore Valley Park;
 - b. Wigmore Allotments;
 - c. Lea Valley Walk;
 - d. Chiltern Way;
 - e. Northern Chiltern Trail promoted Public Right of Way;
 - f. Someries Castle; and,
 - g. Raynham Way Recreation Ground.
- 2.1.5 Following the recording of information, an assessment of the effects of the Proposed Development has been made following the methodology set out in **Section 13.5** of the **Chapter 13** of the ES [TR020001/APP/5.01].
- 2.1.6 **Inset 1** below shows the locations of quality assessments undertaken.

Inset 1: Quality assessment survey locations (map from 2019, remains valid)



2.2 User count surveys

- 2.2.1 User count surveys have been conducted at open spaces, recreational spaces, recreational routes and Public Rights of Way that will be directly affected by the Proposed Development.
- 2.2.2 The purpose of undertaking user count surveys is to obtain information on the number of users and patterns of usage.
- 2.2.3 User count surveys have been undertaken at the following locations:
- a. Wigmores Valley Park (see **Inset 2**); and
 - b. four recreational routes east of the airport (see **Figure 13.2** of the ES [TR020001/APP/5.03]).
- 2.2.4 Patterns of usage can vary during the day, week and season. Therefore, a series of user count surveys have been undertaken throughout 2018 and 2019 to obtain a representative data sample of usage. The surveys were scheduled to cover different seasons, inclusive of school term-time, holiday periods, weekdays and weekends. Surveys were undertaken throughout the duration of daylight hours.
- 2.2.5 User count surveys aimed to avoid adverse weather conditions which may affect usage of open spaces. Weather conditions have been recorded for each survey.

2.2.6 User count surveys were undertaken in 15-minute periods, and all activities observed in the open space were recorded.

User count surveys – Wigmore Valley Park

2.2.7 User count surveys have been undertaken at Wigmore Valley Park throughout 2019. For each survey period (Spring/early Summer/late Summer/Autumn), surveys were planned on a weekday (term time), weekday (school holidays) and weekend.

2.2.8 The location of user count surveys was selected during the first site visit. The chosen location is shown in **Inset 2**. The location was selected because of its extensive 360-degree view over a large proportion of Wigmore Valley Park, including the car park, children's play area, skate facility and large open spaces in the north and west extent of the park. A limitation of the location is that it may not capture all users of the park, particularly those in the southern, more densely vegetated area. However due to the 15-minute duration of the survey, it is anticipated that most users would be recorded as they traverse through the open space.

Inset 2: Wigmore Valley Park user count survey location



User count surveys – recreational routes

2.2.9 Surveys of recreational routes (including some Public Rights of Way) have been undertaken at four sites to the east of the airport. The routes selected for user

counts surveys are shown in **Figure 13.2** of the ES [TR020001/APP/5.03] and are as follows:

- a. No. 1 - Kings Walden 043 footpath, which crosses the ridgeline of Winch Hill and connects Eaton Green Road and Winch Hill Road;
- b. No. 2 – Undesignated footpath within Wigmore Valley Park, which follows the eastern edge of the existing airfield and south east boundary of Wigmore Valley Park;
- c. No. 3 – Public footpaths FP29 and FP38 and public bridleways BW28 and BW37, which follow the mature hedgerow to the south east of Wigmore Valley Park and east of the airfield between Eaton Green Road and Winch Hill Road; and,
- d. No. 4 - Kings Walden 052 public bridleway, which connects between Coleman's Road (near Breachwood Green) and Eaton Green Road, and partially serves as a section of the Chiltern Way long distance footpath.

2.2.10 Surveys were undertaken at four locations, as shown on **Figure 13.2** Recreational route user count survey locations of this ES [TR020001/APP/5.03]. For each survey period, a weekday (7am-7pm) and weekend survey (8am-6pm) has been undertaken. These survey times are in-keeping with industry good practice for undertaking Public Rights of Way surveys.

2.2.11 Surveys were undertaken throughout daylight hours, and each user was recorded traversing along the route. The mode of travel was recorded.

2.3 User questionnaires

2.3.1 User questionnaires have been targeted at users of open spaces that would be directly affected by the Proposed Development. Wigmore Valley Park was therefore selected as the location for user questionnaires.

2.3.2 The purpose of undertaking user questionnaires is to obtain more robust data and ascertain the sensitivity of community resources and receptors, and to understand the patterns of usage. Demographic data of users was also collected in order to inform the **Equality Impact Assessment** submitted as part of the application for development consent [TR020001/APP/7.11].

2.3.3 Usage patterns of open spaces can vary during the day, week and season. Therefore, a series of user questionnaires were undertaken throughout 2019 to obtain a representative data sample of usage. User questionnaires were undertaken in parallel with user count surveys for Wigmore Valley Park.

2.3.4 The times and dates of surveys have been selected to include school term times, school holiday periods, weekdays and weekends. Surveys have been undertaken throughout the duration of daylight hours.

2.3.5 User questionnaires aimed to avoid adverse weather conditions which may affect usage of open spaces. When weather conditions were particularly poor, surveys were postponed due to the likelihood that fewer people would be visiting the open space.

- 2.3.6 Users were asked a series of questions designed to capture data on their demographic background, reasons for visiting Wigmore Valley Park, usage patterns and attitudes towards the airport in relation to their use of the open space.
- 2.3.7 A copy of the user questionnaire can be found in **Appendix 13.3** Open Space User Questionnaire of the ES [TR020001/APP/5.02].
- 2.3.8 Limitations of the data are noted below:
- a. users under the age of 18 have not been surveyed;
 - b. not all users of Wigmore Valley Park have been approached;
 - c. users of Wigmore Valley Park undertaking exercise (running/Cycling/football/skate park) have generally not been approached to avoid disturbance;
 - d. some users approached have been unwilling to take part;
 - e. some users have indicated that English is not their first language, therefore they were unable to take part; and
 - f. families with children using the child play areas were generally not approached to avoid disturbance.
- 2.3.9 Full results from surveys undertaken are documented in **Appendix 13.2** Open Space Survey Results of the ES [TR020001/APP/5.02].