

Appendices

Appendix 1: Risk assessment

Location(s) for data collection. If several locations, list them all here and clarify which hazards/risks occur where in the first column (<i>Hazard</i>): Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park							
Dates for data collection: 5 th and 6 th June 2024							
Hazard for each activity or task (state locations if multiple sites)	Potential harm	Number of persons at risk	Seriousness of harm	Likelihood of occurrence	Initial Risk category <i>before</i> mitigation	Mitigation and controls to reduce risk	*Risk category <i>after</i> mitigation
Travelling to and from the survey sites (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Car accident, breakdown, traffic	1 (me) and an unknown number of people on the road	Extremely	Medium	Substantial	Ensure car is up to date with service and MOT. Familiarise with the routes to each park. Use Sat Nav to avoid major road works and traffic.	Moderate
Working in a public area (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Being approached by strangers, dogs off leads	1 (me)	Slightly	High	Moderate	Use a sign to say student study is in progress, be efficient to reduce working time in public area	Tolerable
Accessibility of the survey sites (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Trespassing, locked in or out if gated, unsafe paths, lack of light, no mobile	1 (me)	Moderately	Low	Tolerable	Initial walk around shows each site is a public area with well paved paths, no permission required to enter, good mobile signal throughout sites for	Tolerable

	signal for contact					emergency contact, work in the day to improve safety	
Terrain/Uneven ground off main paths (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Injury from slips, trips and falls	1 (me)	Moderately	Low	Tolerable	Visually observe the vicinity for obvious trip hazards, wear suitable footwear with good grip and ankle support, tread carefully	Tolerable
Hot weather (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Sunburn, sunstroke, dehydration	1 (me)	Extremely	Low	Moderate	Check weather and health advice before travelling to site, have a backup day for data collection, wear a hat and sunscreen, work in the shade where possible, drink water regularly	Tolerable
Lone working (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Injuries when alone, strangers approaching	1 (me)	Extremely	Medium	Substantial	Ask a friend or family member to accompany on data collection trips, let others know where I am and what time to expect me back home, have a charged and working mobile phone	Moderate
Surveying trees (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Injury from branches falling or trees leaning/unsteady, loss of samples	1 (me) but also includes wider public	Extremely	Low	Moderate	Assess condition of tree from a distance before approaching and report any damage to the structure, ensure samples are clearly labelled and stored safely	Tolerable
Ticks and insects (Haden Hill Park, Hurst	Injury or disease from bites or insect burrowing	1 (me)	Moderately	Low	Tolerable	Cover all skin with insect repellent, wear trousers and long sleeves if possible (weather dependent)	Tolerable

Green Park, Stevens Park, Warley Park)							
Using equipment in the field; quadrat, knife, tape measure around trees, lux meter (Haden Hill Park, Hurst Green Park, Stevens Park, Warley Park)	Loss of equipment or theft, cuts or scrapes to hands/arms	1 (me) and the wider public	Moderately	Low	Tolerable	Take any training required and read instructions for equipment, ensure all equipment is safe to use by testing at home first, take travel first-aid kit to sites, make a checklist of equipment on arrival and leaving, don't leave equipment lying around, wear work gloves	Tolerable
Using the pH kit (Home)	Spills of liquid, loss of samples	1 (me)	Slightly	Low	Tolerable	Take any training required and read instructions, wear work gloves, ensure clear working area with no wires near, work with samples slowly and steadily	Tolerable
Analysing data and report writing for long hours at the computer (Home)	Tripping over wires, electrical faults, eye strain, headaches, poor posture leading to musculoskeletal injuries	1 (me)	Moderately	Medium	Moderate	DSE risk assessment undertaken on at home desk set-up, ensure clear working area, recent eye-test, regular breaks away from the screen, staying hydrated.	Tolerable

Appendix 2: Ethical approval

Consequence	Magnitude – Low, Medium or Severe	Likelihood – Low, Medium or High	Duration (short term or long term)	Mitigation
Contributing to car emission pollution by driving to and from survey sites	Medium	Medium	Short term	Survey sites are within local area, consider getting public transport to sites where there are good links.
Access to survey sites	Low	Low	Short term	Each site is a public park with no restrictions for access and surveying, no large samples will be taken, no natural systems will be excessively disturbed
Taking a sample of tree bark	Low	High	Short term	Samples are less than 3mm so no damage to tree, only collect required samples, do not take anything else or leave anything behind
Negative questioning by the public about actions	Low	Low	Short term	Use a sign to let public know a student survey is taking place, answer any questions about the study
Leaving equipment behind which may cause harm to others or animals	High	Low	Long term	Use a checklist of equipment on arrival and leaving each site, have a backpack to store all equipment when not using it

Disturbing animals and habitats	Medium	Low	Short term	Visually observe where there are habitats or animals present, consider another area to survey, back away from any animals which may approach
Written report identifying environmental issues such as climate change and biodiversity loss	Low	Medium	Likely short term, but long term if published on any sites	Consider who will read the report e.g. advise against asking a friend or family member to read through the completed report if they are likely to be emotionally affected by environmental issues. If the report was published anywhere, include an ethics statement.

Appendix 3: Raw data

See zipped document titled 'Collected data' in the EMA Project Data and Stats folder.

Appendix 4: Multiple regression statistical analysis

See zipped documents titled 'All multiple regressions' and 'Multiple regressions presented in EMA' in the EMA Project Data and Stats folder