Appendix 1.2 – Glossary of Abbreviations/Terms

Project Details

Project Name	Former Sipson Garden Centre
The Applicant	VIRTUS Data Centres
Proposed Development	Former Sipson Garden Centre
The Local Planning Authority	London Borough of Hillingdon (LBH)

Abbreviations and Terms used in the ES

AADF	Annually Averaged Daily Flow
A" Weighting – dB(A)	The human ear does not respond uniformly across the audible frequency range. The "A" weighting is commonly used to simulate the frequency response of the ear.
Ambient Noise Level, $L_{Aeq,T}$	The equivalent continuous A-weighted sound pressure level of the totally encompassing sound in a given situation at a given time that is usually composed of sound from many sources near and far.
AQ	Air Quality
AQAP	Air Quality Action Plan, a document that sets out the means by which the local authority aims to reduce emissions and public exposure to pollutants at locations within an AQMA
AQFA	Air Quality Focus Area, a location that exceeds the legal AQO values for NO_2 and suffers from high human exposure
AQMA	Air Quality Management Area, a specific location declared by a local authority where national AQO values are not being met or are unlikely to be achieved
AQO	National Air Quality Objective Value, a government-set policy target that defines the maximum safe concentration of a pollutant in outdoor air, which must be achieved within a specific timeframe
AQS	Air Quality Strategy, plans drawn up by the UK government to improve and protect ambient (outdoor) air quality
ASHP	Air Source Heat Pump
ASHRAE	The American Society of Heating, Refrigerating and Air-Conditioning Engineers
AURN	Automatic Urban Rural Network
A-weighting dB(A)	Frequency weighting applied to measured sound in order to account

Background Noise Level $L_{A90,T}$	The A-weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90% of a given time interval, T, measured using the fast time weighting, F, and quoted to the nearest whole number.
BMS	Building Management System
BMV	Best and Most Versatile Agricultural Land (Grade 1 – 3a)
BSI	British Standards Institute
CCC	Climate Change Committee
CCRA	Climate Change Risk Assessment
CEMP	Construction Environmental Management Plan
CES	Circular Economy Statement
CH_4	Methane
CNDCP	Climate-Neutral Data Centres Pact
CNI	Critical National Infrastructure
CO	Carbon monoxide
CO_2	Carbon dioxide
Critical Level	The atmospheric concentration of a pollutant above which direct adverse effects on habitats may occur, based on current scientific knowledge
Critical Load	A quantitative estimate of exposure of a pollutant's deposition, above which direct adverse effects on habitats may occur, based on current scientific knowledge
Decibel (dB)	The decibel is a logarithmic ratio of two values of a variable. The range of audible sound pressures is approximately 2 x 10-5 Pa to 200 Pa. Using decibel notation presents this range in a more manageable form, 0 dB to 140 dB.
EA	Environment Agency
EIA	Environmental Impact Assessment
EPD	Environmental Product Declaration
EPUK	Environmental Protection UK, (EPUK) is a national environmental charity and non-governmental organisation (NGO) that works to improve local environments and quality of life across the UK
ES	Environmental Statement
Frequency (Hz)	The number of cycles per second (i.e., the number of vibrations that occur in one second); subjectively this is perceived as pitch.

Frequency Spectrum	The relative frequency contributions that make up a noise.
FSC	Forest Stewardship Council
GHG	Greenhouse Gas
GLA	Greater London Authority
HDV	Heavy Duty Vehicle - All vehicles >3.5 tonnes in weight
HFCs	Hydrofluorocarbons
HGV	Heavy Goods Vehicle - Vehicles >3.5 tonnes in weight excluding buses and coacheS
HMP	Habitat Management Plan
HVAC	Heating, Ventilation and Air Conditioning
I&L	Industrial and Logistics
IAQM	Institute of Air Quality Management - the professional body in the UK for air quality practitioners, scientists, and managers working in air quality science, assessment, and management
ICCI	In-combination Climate Change Impact
IMD	Index of Multiple Deprivation – made of a series of indicators published by the Government for defined geographic areas (SOAs)
IPCC	Intergovernmental Panel on Climate Change
ISEP	Institute of Sustainability and Environmental Professionals (formerly IEMA)
Km	Kilometre = 1,000 metres / or imperial = 1.6093 miles
$L_{A10,T}$	The A-weighted sound pressure level exceeded for 10% of a given time interval, T, measured using the fast time weighting, F.
L_{AFmax}	The highest noise level that occurs during a measurement period. It is the A-weighted maximum noise level in decibels, measured with a "fast" response time.
LAQM	Local Air Quality Management - the statutory framework that local authorities must follow to regularly review, assess, and take action on air quality in their local areas against national AQOs
LBAP	Local Biodiversity Action Plans
LCRM	Land Contamination Risk Management
LDV	All vehicles <3.5 tonnes in weight
LEMP	Landscape and Ecological Management Plan
LEP	Local Enterprise Partnership

LEZ	Low Emission Zone
LFRMS	Local Flood Risk management Strategy
LGS	Local Geological Sites
LGV	Commercial vehicles weighing <3.5 tonnes
LGV	Light Goods Vehicles
LLFA	Lead Local Flood Authority
LNR	Local Nature Reserves
LOAEL	Lowest Observed Adverse Effect Level. This is the noise level above
LPA	Local Planning Authority
LPG	London Plan Guidance
LSOA	Lower Super Output Area – a geographical shape covering an average of 1,500 residents to represent areas of similar social background
LTP	Local Transport Plan
LVIA	Landscape and Visual Impact Assessment
LZC	Low and Zero Carbon
m	Metre
m^2	Square metre (area)
m^3	Cubic metre (volume)
MaaS	Mobility as a Service
MAGIC	Multi Agency Geographic Information for the Countryside website
$mg/m^2/day$	A rate of deposition as milligrams of a substance per meter squared per day
MNHC	Nonmethane hydrocarbons are organic chemical compounds made entirely of carbon and hydrogen, with methane explicitly excluded, produced by the incomplete combustion of fossil fuels
$MtCO_2$	Million tonnes of Carbon dioxide equivalent
N	Nitrogen is a pollutant that can be harmful to habitats when they are exposed to excessive quantities above tolerable limits
NAQO	National Air Quality Objective
NCA	National Character Area
NDC	Nationally Determined Contribution
NDHAs	Non Designated Heritage Assets

NE	Natural England
NERC	The Natural Environment and Rural Communities
NF_3	Nitrogen trifluoride
NH	National Highways
NHLE	National Heritage List for England
NO_2	Nitrogen Dioxide is a pollutant harmful to human health when concentrations exceed define levels, produced by the reaction between nitrous oxide and ozone in the ambient air
Noise	Unwanted or unexpected sound.
NOx	Nitrogen oxides are a group of reactive gaseous compounds containing nitrogen and oxygen, that form primarily during high-temperature combustion processes
NPPF	National Planning Policy Framework
NRMM	Non-road Mobile Machinery
NSIP	Nationally Significant Infrastructure Project
NTS	Non-Technical Summary (of the ES)
NTZ	Nitrate Vulnerable Zone
NVQ	National Vocational Qualification
oCMP / OCEMP	Outline Construction Management Plan
ONS	Office of National Statistics
PAS	Publicly Available Specification
PCM	Pollution Climate Mapping
Peak Particle Velocity (PPV)	The peak speed of particle movement in the ground due to vibration and used to assess impacts from construction activity induced vibration. The Peak Particle Velocity is defined as millimetres per second (mm/s).
PEFC	Programme for the Endorsement of Forest Certification
per cubic metre	one microgram (millionth of a gram) of pollutant.
PFCs	Perfluorocarbons
PM_1	Particulate Matter less than one micron in diameter
PM_{10}	Particulate Matter with an aerodynamic diameter of <10 microns, with those between 10 microns and 2.5 microns being of a size that can enter the lungs but not the bloodstream
$PM_{2.5}$	Particulate Matter aerodynamic diameter of <2.5 microns, a size of particle that can penetrate deep into the lungs and enter the bloodstream, is a

	pollutant that is harmful to human health when concentrations exceed defined levels
PMA	Property Market Area
PMF	Probable Maximum Flood level
PPE	Personal Protective Equipment
PPG	Planning Practice Guidance
PRA	Preliminary Risk Assessment
PRoW	Public Right of Way
PUE	Power Usage Effectiveness
PV	Photovoltaic
Rating Level, $L_{Ar,Tr}$	The specific noise level plus any adjustment for any characteristic features of the noise.
RCP	Representative Concentration Pathway
Reference Time Interval, Tr	The specified interval over which an equivalent continuous A-weighted sound pressure level is determined.
RFI	Request for Information
RIBA	Royal Institute of British Architects
RICS	Royal Institution of Chartered Surveyors
RMA	Reserved Matters Application
Road link	A length of road which is considered to have the same flow of traffic along it. Usually, a link is the road from one junction to the next.
SAC	Special Area of Conservation
SCI	Statement of Community Involvement
SEP	Strategic Economic Plan
SF_6	Sulphur hexafluoride
SFRA	Strategic Flood Risk Assessment
SINC	Sites of Importance for Nature Conservation
SMEs	Small and Medium enterprises
SPA	Special Protection Area
SPD	Supplementary Planning Document
SRN	Strategic Road Network

SSSI	Site of Special Scientific Interest
SuDS	Sustainable drainage systems
SWMP	Site Waste Management Plan
TA	Transport Assessment
TfL	Transport for London
TP	Travel Plan
TPO	Tree Preservation Order
Trackout	The transport of dust and dirt from the construction / demolition site onto the public road network, where it may be deposited and then re-suspended by vehicles using the network. This arises when heavy duty vehicles (HDVs) leave the construction / demolition site with dusty materials, which may then spill onto the road, and/or when HDVs transfer dust and dirt onto the road having travelled over muddy ground on site.
UKCP18	United Kingdom Climate Projections 2018
ULEZ	Ultra Low Emission Zone
ULSD	Ultra Low Sulphur Diesel
VOC	Volatile Organic Compounds
VRF	Variable Refrigerant Flow
WBCSD	World Business Council for Sustainable Development
WCA	The Wildlife and Countryside Act
WFD	Water Framework Directive
WHO	World Health Organisation
WLCA	Whole Life Carbon Assessment
WMS	Waste Management Strategy
WRI	World Resources Institute
WRMP	Water Resources Management Plan
WRZ	Water Resource Zone
WTT	Well-To-Tank
WUE	Water Usage Effectiveness
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility

$\mu g/m^3$	Micro-grammes per cubic metre of air (standard unit for air pollutants)