

Environmental Risk Assessment – ZP3527SS

Union Park Data Centre

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1.0 INTRODUCTION

This Environmental Risk Assessment (ERA) has been prepared by HDR on behalf of the operator Ark Data Centres Limited (Ark) in support of the application for a new bespoke Environmental Permit (ref ZP3527SS) for the following installation:

Union Park Datacentre Bulls Bridge Industrial Estate, North Hyde Gardens, Hayes, **UB3 4DG** Grid ref: TQ 10436 79275

This ERA aims to identify potentially significant environmental risks associated with the installation's activities, the applicable source pathway receptors, and the control measures in place to help mitigate the identified risks.

This ERA has been produced in accordance with Environment Agency (EA) guidance -"Risk assessments for your environmental permit" 1.

Please refer to the following reports for detailed risk assessments that have been submitted as part of the application for a permit:

- Air Quality assessment
- Noise assessment
- Site condition report / Site Baseline assessment

The requirement to complete a Climate Change Risk Assessment (CCRA) as part of the application for a new bespoke Installation EP was withdrawn in August 2022². As is now required, this will be integrated into the site's management system.

Ark currently holds environmental permits for three other data centres (ref: VP3235DJ, JP3300SN, and PP3003PW) and is fully committed to operating in accordance with the relevant permit conditions and demonstrating best practice within the data centre sector.

1.1 **Background**

The Union Park Data Centre ('the site') outlined in Appendix A and Appendix B is one of three Data Centres to be constructed on the wider 'Union Park Campus'. Each Data Centre will use Emergency Standby Generators or 'ESGs' to provide emergency power in the event of a grid electrical failure. The ESGs will be located in the associated Energy Centre (EC). For example, the ESGs serving the Data Centre 1 will be houses in Energy Centre 1 or 'EC1'.

The new permit (ref: ZP3527SS) covers the activities associated with EC3. Once fully operational there will be 12 ESGs within EC3.

Energy Centre 1 (EC1) and Energy Centre 2 (EC2) are covered under a separate permit (DP3442QV) as both are managed by a different operator.

¹ https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit

² https://www.gov.uk/guidance/adapting-to-climate-change-risk-assessment-for-your-environmentalpermit

2.0 METHODOLOGY

2.1 Approach

This ERA has been prepared in accordance with EA guidance. This guidance recommends that the following steps are undertaken in preparing a risk assessment:

- 1. Identify and consider risks for your site, and the sources of the risks.
- 2. Identify the receptors (people, animals, property, and anything else that could be affected by the hazard) at risk from your site.
- 3. Identify the possible pathways from the sources of the risks to the receptors.
- 4. Assess risks relevant to your specific activity and check they are acceptable and can be screened out.
- 5. State what you will do to control risks if they are too high.
- 6. Submit your risk assessment as part of your permit application.

2.2 Risk scoring

This ERA has been completed using the scoring matrix shown in Table 2.1 – Risk Matrix with definitions for each score as follows:

Probability of exposure:

- High exposure highly likely to occur
- Medium considered to be likely
- Low considered to be unlikely
- Very Low considered to be highly unlikely / very rare event / mitigation in place

Consequence:

- High potential for significant impact requiring mitigation / remediation
- Medium potential for moderate impact which may require mitigation / remediation
- Low negligible impact that may require mitigated
- Very Low no significant / perceivable impact to receptor

Table 2.1 - Risk Matrix

	Probability of exposure / Likelihood						
Consequence	High	Medium	Low	Very Low			
High	High	High	Medium	Low			
Medium	High	Medium	Medium	Low			
Low	Medium	Medium	Low	Very low			
Very low	Low	Low	Very low	Very low			

3.0 SITE CONTEXT

This section contains a high-level site summary. Please refer to the Non-technical Summary (NTS) document for a non-technical introduction to the site and application, or to the Best Available Techniques (BAT) document for further details on plant, design, and emissions mitigation.

3.1 Site location

The site is located in Hayes, in an urban location, which is relatively industrial in the immediate vicinity with residential properties to the north and south.

To the north, the site backs onto a railway line. The Parkway dual carriageway is located to the east, which joins the M4 Motorway further south. The Grand Union Canal borders the campus to the south, while the river Crane borders the east boundary of the site. There are several small businesses, restaurants, offices, leisure facilities, religious buildings, parks and schools in the wider vicinity of the installation.

The surrounding area has previously supported various industrial and potentially contaminative land uses, including creosote works, railway, and a power station. No sensitive land uses have been identified.

Beyond the direct site boundaries, the closest ecological receptors are Local Wildlife sites (LWS) approximately 2,000m from the site, with the closest Special Area of Conservation (SAC), Special Protection Area (SPA) and Ramsar sites approximately 10,000m from the site boundary.

3.2 Site activities

As referenced above, the relevant data centre and associated Energy Centre (EC3) is under construction and planned for completion in 2025.

Under normal circumstances electricity to the site will be provided by the National Grid. Reliability of the electricity supply is critical to a DC and as such current plans are to install 12 no. emergency standby generators (ESGs) to provide standby power in the event of an outage / failure in the electricity supply. The ESGs are on site solely to support the campus in times of an electricity supply failure.

The ESG models selected are each 3.2MWe Rolls Royce MTU DS4000, which have a thermal capacity of 8MWth each, for a total capacity of 96.11MWth. All of the ESGs are over 1MWth and are therefore classed as new 'Medium Combustion Plant '(MCP). These ESGs are 'limited hour MCPs' as they are purely standby plant that will operate less than 500 hours per year and there is no capacity agreement in place. Details of the existing and new MCPs can be found in the Thermal Schedule and Non-technical Summary submitted with the application.

The ESGs are likely to operate on Hydrogenated Vegetable Oil (HVO) or diesel and are to be fitted with Selective Catalytic Reduction (SCR) to reduce NOx emissions to 95mg/Nm3 (at 5% O2). The SCR systems use Urea as a raw material to operate.

The Directly Associated Activities (DAA) include the fuel and storage tanks, Urea storage tanks, associated pipework, and the drainage network.

The location of the generators, fuel tanks and emissions points (flues/stacks) and surface water connections are shown in Appendix B. The installation boundary encompasses the listed activities only.

3.3 Site history

The historical land use has been detailed in the Site Condition Report (SCR) submitted with the application for a permit. One of the SCR appendices is a Phase 1 Environmental risk assessment which notes the following:

"The earliest available map from 1865 shows the site as mostly vacant with a river running north to south along the eastern part of the site. This map also shows a railway and creosoting works in the northeast corner. By 1932, the

creosoting works had extended into the site and a building was shown in the centre. Excavations and ground workings were noted onsite by 1963 to 1964. The creosoting works were no longer shown by 1973 and a power station with chimney was shown in the western part of the site by 1983. By 2002, the power station was no longer shown and the British Airways building was shown. The building on the Vodafone plot was constructed by 2010."

The same Phase 1 report also notes the following:

"The surrounding area has supported various industrial (potentially contaminative) land uses, including factories (50m all directions), brick fields (200m northwest), mills (200m northwest), railway (10m north), electricity substation (100m south), creosoting works (1m east and northeast), and rubber works (200m east)."

3.4 Site sensitivity

The site is in the administrative boundaries of London Borough of Hillingdon (LBH) Council. See Appendix A for an overview of the site and surrounding area.

The installation is located within an Air Quality Management Area (AQMA) for NO_2 and near an Air Quality Focus Area (AQFA). As a result, during the planning process, LBH required that abatement be implemented on the generators to achieve a NOx emissions rate of 95mg/Nm⁻³ (at 5% O_2). In response to this planning requirement, the operator has made significant investment in NOx abatement technology in the form of Selective Catalytic Reduction (SCR).

Please refer to the site condition / baseline report for a description of the following:

- Geology
- Hydrogeology
- Hydrology
- Ecology & heritage

3.5 Cumulative Impacts

The operator has given consideration of cumulative impacts from the operation of all x3 data centres during planning. Specific focus was given to air quality during the planning process for the entire campus. The Air Quality Assessment (AQA) for planning predicted that "overall impact of the standby generators (during testing and unplanned national grid failure) on local air quality would be not significant".

Despite the above finding, the operators will endeavour to work together to reduce cumulative impacts during normal and abnormal operation of the respective data centres. An example of this would be the intention to reduce operation of the generators so far as reasonably practicable for both maintenance and during an emergency power outage.

3.6 Sensitive receptors

Identified sensitive receptors are either human/ecological receptors that could potentially be affected by the permitted activities. The sensitive receptors identified as part of this ERA are presented in the tables below.

Please also refer to Appendix C for the EA Nature and Heritage Conservation Screening report.

Table 3.1 Human Receptors

Tubic of Transmit to copies		
Location / description	X grid ref	Y grid ref
Site drains and sewer systems	various	various
Road pedestrians / foot path users / river users	various	various

Location / description	X grid ref	Y grid ref
Proposed Commercial Units: Nestle Site	510328.41	179200.16
	510204.25	179266.75
	510253.31	179055.80
Proposed Residential Units: Nestle Site	510144.94	179311.31
	510093.25	179262.39
	510172.16	179143.77
Guru Nanak School	511216.62	180007.59
Commercial Unit	510346.91	179446.55
Hillingdon Mosque	510237.28	179460.62
Commercial Unit – Tarmac Site	510561.12	179467.86
Commercial Unit	510609.69	179172.95
Commercial Unit	510684.16	179316.38
Residential Dwelling – Copperdale Rd	510336.75	179714.72
Residential Dwelling – Chalfont Rd	510015.84	179619.09
Residential Dwelling – Nestle Avenue	510273.88	178955.31
Residential Dwelling – Nestle Avenue	510099.69	179023.25
Residential Dwelling – Brent Road	511169.41	179247.81
Residential Dwelling – Brent Road	511164.28	179114.12
Proposed Development – Reception	510515.81	179230.41

Table 3.2 Ecological Receptors

Site Name	Distance from Site (m)	Designation	X grid ref	Y grid ref
Yeading Brook and River Crane	<50m		multiple	
south west London Waterbodies	7,205m	SPA	505363	174127
Richmond Park	9,739m	SAC	518540	173833
Priority Orchard	1,100m	Priority Orchard	510068	178240
Priority Woodland	200m	Priority Woodland	510659	179432
Priority Woodland	100m	Priority Woodland	510527	179122
Priority Woodland	400m	Priority Woodland	510125	179080

4.0 RISKS IDENTIFIED

Using the guidance and approach outlined above, the following have been deemed to be identified as potential environmental risks which having potential to cause harm to the environment and / or human receptors:

- · Controlled releases to air
- Accidents
- Odour
- Noise and Vibration
- Fugitive Emissions (from uncontrolled sources)
- Visible emissions
- Global warming potential
- Waste
- Water discharges

Section 5.0 presents the risk assessment for each of the above including identification of the potential hazard, receptors, pathway, risk management practices, probability of exposure, consequence of exposure and overall risk.

The methodology outlined in Section 2.0 has been employed to score potentially significant environmental risks associated with the installation's activities.

5.0 ENVIRONMENTAL RISK ASSESSMENT

5.1 Controlled releases to air

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
emissions to air- NO _x , CO, SO ₂ , PM ₁₀ emissions from generator stacks	Employees, local residents, and adjacent premises / pedestrians / road users immediately surrounding the installation.	Airborne	An Air Quality impact assessment & Dispersion model has been completed and submitted as part of the permit application ("Air Quality Assessment"). This report concluded that long-term and short-term impacts from the generators were predicted to be insignificant during testing and maintenance and a prolonged grid failure at all relevant modelled receptor locations when assessed against all relevant long-term and short-term exceedance thresholds. Please refer to the Air Quality Assessment supplied with the application for further details. The generators are emergency standby plant designed to provide power in the event of grid failure. The National Grid report for 2022-2023 stated the overall reliability of grid supply was 99.99997% for substations above 132kV supplies. This equates to the probability of a 1-minute outage occurring once in 5.8 years and a 1-hour outage occurring once in 346 years. Reliability in 2021-2022 was 99.99936% and 99.999966% in 2020-2021. As such, a grid outage is considered to be a highly rare event. All generators have been fitted with Selective Catalytic Reduction (SCR) to reduce NOx to 95mgNm³ (at 5% O₂) The flues / stacks for all generators terminate vertically at approx. 23m, approx. 1 metre above roof height, and are unimpeded by cowls/caps, The data centre is located within an Air Quality Management Area where the Local Planning Authority has a particular concern with air quality. The emissions will be significantly lower than a normal operating permit for data centres with standby generators due to the requirements of the local planning authority. Prolonged 72-hour grid failure events are considered to be extremely rare events and therefore do not reflect the likely impacts from the installation. To address and mitigate the risks associated with a prolonged grid failure, an Air Quality Management Plan will be implemented. Operation of the ESGs is likely to be limited to testing and maintenance. Where possible and practicable, the site team will seek to minimise the	Low – maintenance and testing Very low – grid failure	Emissions to air have an adverse impact to human health and ecological receptors in surrounding areas.	Low – maintenance and testing low – grid failure

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
			frequency of generator runs as far as practicable and to stagger tests so multiple engines are not operating simultaneously. Efforts will also be made to avoid testing during peak NOX periods, such as during rush hour to mitigate impacts to nearby sensitive receptors.			
			Dispersion of pollutants has been considered when designing the flues for the generators. As a result, each engine will have its own dedicated flue that will rise and terminate 1m above the height of the building. All flues are unimpeded by flaps/cowls and have been orientated vertically.			
			Once the site is operational there are plans to implement an Air Quality management plan (AQMP) which is intended to control exposure in the event of grid failure and to notify sensitive receptors/ the EA in the event of a prolonged grid outage (e.g. generators operate over several hours). This will be based on the air dispersion model findings and will likely include observations on the current weather conditions/ wind direction/ time of day/ day of the week and the likely impact on local air quality.			
			The complaints procedure will be followed in the event the site receives an Air Quality complaint relating to the generators.			

5.2 Accidents

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Accidents relating to fuel storage e.g. Spills, overfilling during refuelling / disposal / transfers, failure in secondary containment, pipe ruptures, valve failure, user error, collision.	Groundwater, surface water, sewer system, soils.	Land/ water	Generators and associated tanks will be located internal to main Energy Centre building, reducing the risks of spillages entering the environment. Each of the 12no ESGs has its own dedicated 52,000 litre bunded belly tanks. There are also 2no. 1,000 litre receiver tanks that will be connected to one of the 2no. fill points. The receiver fuel tanks are filled by via a locked floor cabinet, fitted with a non-return valve, fuel fill control panel, and manual isolation value (complete with drip tray). The belly tank valves connect to individual overfill protection valves and are located within the bunded generator canopies. Tanks are to be bunded to BS799 Part 5 Type J 2010 specifications. This reduces the risk of accidental impact, theft, vandalism and fugitive emissions. Fuel deliveries are likely to be rare events (~0-2 deliveries pa). Given the standby nature of the plant means they operate infrequently (~50hours pa). Fuel delivery, Emergency preparedness and spill response procedures will be implemented once the site is operational. Suppliers will adhere to procedures. Deliveries will be carried out by competent individual(s) and supervised by site staff. Tertiary containment in the form of petrol interceptors is in place to prevent spilt fuel entering surface water. These are to be inspected regularly. Surrounding area covered in good quality hardstanding. For more information see drainage plan submitted with the application, identifying foul / surface water drains. Spill kits (including drain covers) will be provided in close proximity of fuel storage and fill points. Drip trays to capture spillages from fill points and associated pipework will also be provided. PPM regime to include visual checks for leaks / spills. Hazardous waste to be disposed of by licenced waste carrier, with duty of care information retained as evidence by the waste producer and waste carrier.	Very low – bulk tanks Low – refuelling	Leaks of fuel or other substances associated with site operations into the surrounding environment can cause adverse impacts to the ground water course as well as adjacent water courses.	Very low – bulk tanks Medium – refuelling

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Flooding of drainage network and generators.	Groundwater, surface water, sewer system	Floodwater, surface waters, drainage system etc	A Flood Risk Assessment has been completed as part of the development of the site drainage strategy, as well as a Groundsure report. These concluded that the site is predominantly located within a Flood Zone 1 area which is deemed to have less than a 1 in 1000 (0.1%) chance of river or tidal flooding. Other sources of flooding have been investigated and are considered to be low risk (see drainage plan submitted with application). The generators and their fuel tanks are located internal to the Energy Centre building which will provide some level of protection from surface water flooding. The surface water drainage system follows performance requirements that ensure all surfaces are suitably graded, so surface water is conveyed to the drainage system and the drainage systems will adequately convey flows and meet self-cleansing velocities. Routine maintenance of the onsite drainage system will help prevent surface water drains from being obstructed by debris. Emergency procedures (amongst others) are to be developed and implemented once the site is operational.	Very low	Flooding / water damage to the generators could impact resiliency for operations. Flood water pollution from flooded generators could have an adverse impact to local environment,	Low
Fire	Emissions to Air / Water	Air & Water	Prior to the site becoming operational, all generator enclosures will be fitted with fire detection systems. Generators and tanks are to be fitted with valves that will automatically shut in the event of a fire shutting off the fuel supply. Fire suppression systems will rely on mains water to extinguish fires. In the unlikely event of a fire, there is potential for fire water from either site suppression systems / emergency services to enter the environment and cause harm. Emergency preparedness and response plans are to be produced once the site is operational to mitigate this risk.	Very low	Fire would also cause emissions to air, having an adverse impact to local environment and receptors. Firewater could infiltrate local water courses, adversely impacting the local environment.	Low

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Vandalism	Land / Surface Water / Ground Water / Air	Drainage systems, air, surface	Once the site is fully operational it will be manned 365 days a year with monitoring by security staff from a security office using an extensive CCTV system. Entry and exit to the site will be tightly controlled via a security gate and turnstiles. The ~2.5m palisade security fence will act as an impenetrable perimeter to prevent unauthorised access to the site.	Very low	Damage arising from vandalism to the generators / storage tanks could impact emergency back-up potential / Localised pollution from a spill could adversely impact the local environment.	Very low

5.3 Odour

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Odour from storage and combustion of fuel	Employees & local residents	Airborne	The ESGs and associated tanks are located internal to the Energy Centre building in sealed bulk / day tanks. Emissions are not expected to be significant, and an odour Management Plan is not required. Fuel tank filing will be carried out by trained fuel tanker drivers. This removes any significant risk of vapour release and spillages during deliveries. The complaints procedure will be followed in the event the site receives an odour complaint relating to the permitted activities.	Very low	Nuisance to on site staff and local residents. May lead to complaints.	Very low

5.4 Noise and vibration

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Noise and Vibration from start-up and operation of generators	Employees, local residents, and adjacent premises / pedestrians / road users immediately surrounding the installation.	Air	A noise impact assessment has been completed and submitted as part of the permit application ("Noise Impact Assessment"). This report concluded that "the noise levels are predicted to achieve the noise limits at the nearest noise sensitive properties and therefore noise impacts are not considered to be significant." Please refer to the noise report submitted with the application for further details. A bespoke generator acoustic canopy, for every generator pair, has been designed to reduce acoustic sound pressure to 75 dBA at 1m from the exterior of the unit at 1.5m above ground level. Significant noise outbreak is not expected as the ESGs operate infrequently as they are emergency standby plant designed to provide power in the event of grid failure. This is a highly rare event given grid reliability. As such, annual operation is likely to be limited to testing and maintenance. Generators are to be maintained in accordance with manufacturer guidelines as part of a planned preventative maintenance (PPM) regime. The complaints procedure will be followed in the event the site receives a noise complaint relating to the generators.	Low – maintenance and testing Very low – grid failure	Complaints from local residences. Potential harm to human health due to elevated noise levels.	Low – maintenance and testing low – grid failure
Noise from site traffic e.g. fuel deliveries	Employees, local residents, and adjacent premises / pedestrians / road users immediately surrounding the installation.	Air	The data centre is located within the Bulls Bridge Industrial Estate. Industrial/commercial buildings are in the immediate vicinity of the site, with residential properties to the north and south. The generators are emergency standby plant that is operated infrequently as discussed above. As such fuel consumption is low meaning fuel deliveries are infrequent e.g. 0-2 deliveries per year. In reality the site may have no deliveries in a year therefore noise from associated traffic is not expected to be significant.	Low	Complaints from local residences. Potential harm to human health due to elevated noise levels.	Very low

5.5 Fugitive emissions (from uncontrolled sources)

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Fuel spills during refuelling / leaks / accidents e.g. damaged tanks / pipework.	Groundwater, surface water, sewer system, soils.	Surface run off / surface waters via drainage or vertical leaching.	As detailed in Section 5.2	Very low – bulk tanks Low – refuelling	Leaks of fuel or other substances associated with permitted installation into the surrounding environment can cause adverse impacts to the ground water as well as adjacent water ways.	Very low – bulk tanks Medium – refuelling
VOCs / fumes from storage / delivery of fuel	Employees & local residents,	Air	The fuel tanks are located internal to the Energy Centre building and are containerised in bunded belly tanks. Emissions are not expected to be significant. Fuel volume and leak detection alarms are in place, which will minimise the likelihood of release to the environment. Refuelling activities are carried out by approved suppliers with trained competent individuals that operate in accordance with the sites refuelling procedures which will be developed as part of the sites Environmental Management System (EMS). Deliveries are rare, and best practices are adhered to in order to limit durations which fumes could escape into the environment.	Very low	Emissions to air have an adverse impact to human health and ecological receptors in surrounding areas.	Very low

5.6 Visible emissions

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Visible Emissions from generator stacks	Local residents	Visual	Smoke may be visible during the first 10-15s of operation as the engine starts up. After this time visible plumes are not anticipated due to high exhaust temperatures (approx. 450°C). Visible emissions after this time are to be investigated as part of generator maintenance. Plumes may not be visible due to line of sight, weather conditions, and the timing of generator operation as tests may be outside of working hours. They may also be infrequent therefore are not considered to be likely / significant. The installation of SCR, the site's PPM regime and regular fuel polishing is intended to remove impurities, and to help ensure the engine burns as cleanly as practicable to reduce visible emissions. The complaints procedure will be followed in the event the site receives complaints relating to the visible emissions from the generators.	Low	Potential visual impacts, particularly during the generator start-up.	Very low

5.7 Global warming potential

Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Global Warming Potential from combustion of fuel by generators	Global population	Airborne	The generators are emergency standby plant designed to provide power in the event of grid failure. This is a highly rare event given grid reliability. As such, annual operation is likely to be limited to maintenance and testing. This level of operation is not considered to provide a significant global warming impact.	Very low	Contribute to climate change, due to increase in greenhouse. gases present in the atmosphere.	Very low

5.8 Waste

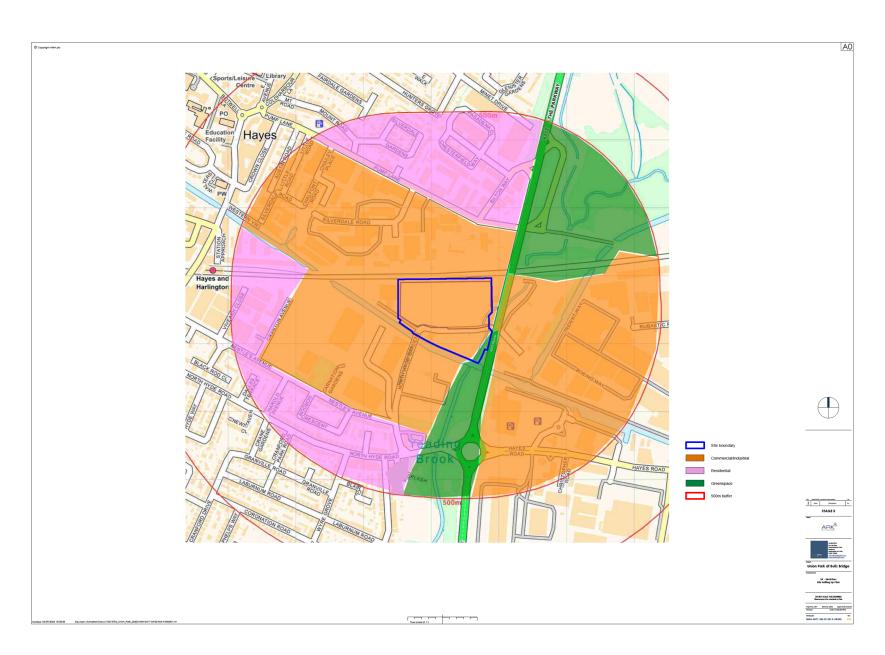
Hazard	Receptors	Pathway	Controls / Mitigation / Risk management	Probability of exposure	Consequence of exposure	Overall risk
Waste associated with generators e.g. waste fuels, oil sorbents and rags, lubricants & hydraulic fuels, solid wastes (air filters, packaging and spare parts) and end of life plant.	Ground, soil, ground water, surface water, sewer system.	Land/ water	Small quantities of wastes may be generated from routine generator maintenance activities or in the event of a spillage/leakage. This is likely to be low given the standby nature of the generators and the procedures in place to minimise waste generation. Procedures for licenced and responsible collection of waste oils and other hazardous wastes are to be developed once the site is operational. This will include the retention of relevant Duty of Care information. Contractors are responsible for waste disposal that arises during maintenance activities.	Very low	Potential to contaminate water/ land.	Very low

6.0 CONCLUSION

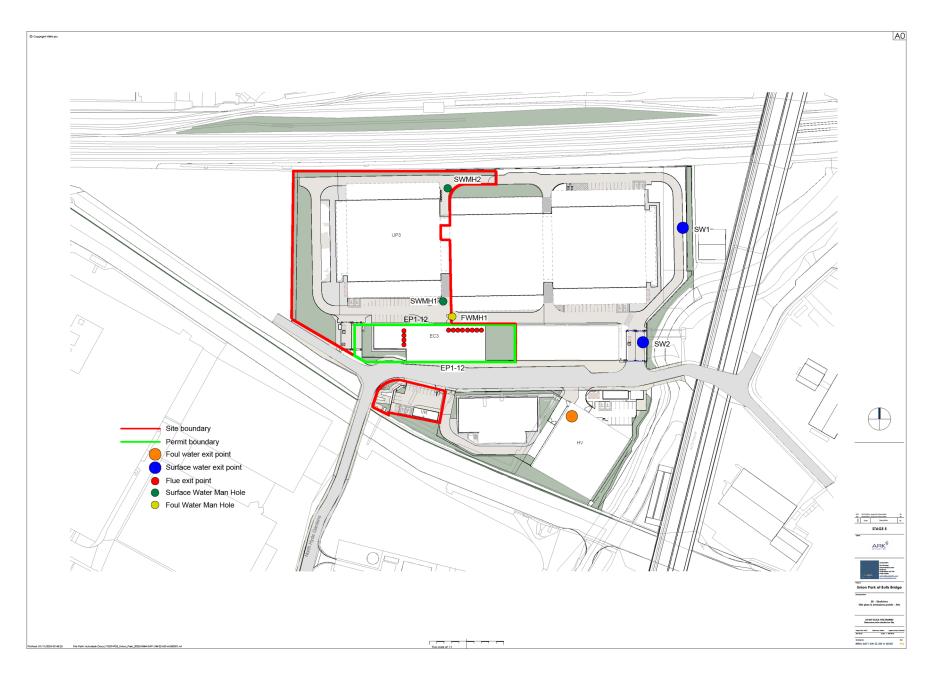
This ERA has identified and assessed the potential risks and hazards associated with the operation of the facility and from accidents.

This ERA has shown that potential environmental hazards associated with the development have been identified. The risks assessed and mitigation measures have been taken either through design or clearly defined operation procedures such that the potential consequences arising from these hazards is low or very low, in line with a Datacentre Facility of this size, nature and location.

APPENDIX A SITE SETTING PLAN



APPENDIX B SITE PLAN AND EMISSION POINTS



APPENDIX C

EA NATURE AND HERITAGE CONSERVATION SCREENING REPORT

Nature and Heritage Conservation

Screening Report: Bespoke installation

Reference EPR/ZP3527SS/P001

NGR TQ 10401 79267

Buffer (m) 0

Date report produced 19/08/2024

Number of maps enclosed 1

This nature and heritage conservation report

The nature and heritage conservation sites, protected species and habitats, and other features identified in the table below **must be considered in your application**.

In the further information column, there are links which give more information about the site or feature type and indicate where you are able to self-serve to get the most accurate site boundaries or feature locations.

Most designated site boundaries are available on <u>Magic map</u>. Using Magic map allows you to zoom in and see the site boundary or feature location in detail, Magic map also allows you to measure the distance from these sites and features to your proposed boundary. <u>Help videos</u> are available on Magic map to guide you through.

Where information is not publicly available, or is only available to those with GIS access, we have provided a map at the end of this report.

Sites and Features within screening distance	Screening distance (km)	Further Information	
Special Areas of Conservation (cSAC or SAC)	10	Joint Nature Conservation Committee and Magic map	
Richmond Park			
Special Protection Area (pSPA or SPA)	10	Joint Nature Conservation Committee and Magic map	
South West London Waterbodies			

Ramsar	10	Joint Nature Conservation Committee and Magic map
South West London Waterbodies		
Local Wildlife Sites (LWS) (see map below)	2	Appropriate Local Record Centre (LRC)

London's Canals

Yeading Brook, Minet Country Park and Hitherbroom Park

Crane Corridor

Cranford Countryside Park and Open Space

Hartlands Wood and Lower Park Farm

Lake Farm Country Park

Cranford Lane Gravel Workings

Airlinks Ponds

Bolingbroke Way Sunken Pasture

St Mary's, Wood End

Where protected species are present, a licence may be required from <u>Natural</u> <u>England</u> to handle the species or undertake the proposed works.

The relevant Local Records Centre must be contacted for information on the features within local wildlife sites. A small administration charge may also be incurred for this service.

The following nature and heritage conservation sites, protected species and habitats, and other features have been checked for, where they are relevant for the permit type requested, but have not been found within screening distance of your site unless included in the list above.

Special Areas of Conservation (cSAC or SAC), Special Protection Area (pSPA or SPA), Marine Conservation Zone (MCZ), Ramsar, Sites of Special Scientific Interest (SSSI), National Nature Reserve (NNR), Local Nature Reserve (LNR), Local Wildlife Sites (LWS), Ancient Woodland, relevant species and habitats.

Please note we have screened this application for features for which we have information. It is however your responsibility to comply with all environmental and

Reference: installations conservation screen

Version: 6.0

planning legislation, this information does not imply that no other checks or permissions will be required.

The nature and heritage screening we have conducted as part of this report is subject to change as it is based on data we hold at the time it is generated. We cannot guarantee there will be no changes to our screening data between the date of this report and the submission of the permit application, which could result in the return of an application or requesting further information

Local Wildlife Sites



