

Riverside Energy Park

Environmental Statement

Chapter 17: Schedule of Mitigation and Monitoring

VOLUME NUMBER:

06

PLANNING INSPECTORATE REFERENCE NUMBER:

EN010093

DOCUMENT REFERENCE:

6.1

November 2018 | Revision 0 | APFP Regulation 5(2)(a)

Planning Act 2008 | Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Contents

17 Schedule of Mitigation and Monitoring 1
 17.1 Introduction 1

17 Schedule of Mitigation and Monitoring

17.1 Introduction

17.1.1 The requirement to consider mitigation measures is included in Schedule 4 (part 7) to the Infrastructure Planning Environmental Impact Assessment (EIA) Regulations 2017 (as amended) (the Infrastructure EIA Regulations 2017): “a description of the measures envisaged to avoid, prevent, reduce or, if possible, offset any identified significant adverse effects on the environment and, where appropriate, of any proposed monitoring arrangements”. **Chapters 6-14** describe the embedded and further mitigation measures which are relied upon for assessment work. This Chapter summarises those measures.

17.1.2 Regulation 3 of the Infrastructure EIA Regulations 2017 defines a ‘monitoring measure’ as a “provision requiring the monitoring of any significant adverse effects on the environment of proposed development including any measures contained in a requirement imposed by an order granting development consent”. Where monitoring measures have been outlined within **Chapters 6-14**, they are also summarised in this Chapter.

17.1.3 Assessments within this ES have been prepared based on both embedded and further mitigation measures, as outlined in Sections 8 and 11 of **Chapters 6 to 14** respectively, resulting in the reduction of the significance of adverse effects where possible.

17.1.4 **Table 17.1** of this Chapter provides an overview of the mitigation and monitoring measures upon which assessments within this ES have relied. It is not intended to act as a comprehensive overview of every individual item of mitigation which the REP DCO provides.

17.1.5 This Chapter should be read in conjunction with the ES and the ES Appendices as well as the following documents:

- Outline Construction Traffic Management Plan (CTMP);
- Outline Operational Worker Travel Plan;
- Outline Code of Construction Practice (CoCP);
- Outline Biodiversity Landscape Management Strategy;
- Design Principles;
- Outline Lighting Strategy; and
- Flood Risk Assessment.

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Table 17.1 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
Transport					
1	ES Chapter 6 – Paragraph 6.8.1	Construction and Operation	Use of the existing jetty to maximise the transportation of waste inputs, consumables and by-products by river.	Design Principles (Document Reference 7.4) paragraph 3.2.4, secured through DCO Requirement 2 - Detailed Design Approval	The Applicant and Main works contractor
2	ES Chapter 6 – Paragraph 6.8.1	Construction	As part of any temporary closures of Public Rights of Ways (PRoW), there would be appropriate diversions put in place to be agreed with the relevant highway authorities prior to the commencement of construction.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 6.2.6	The Applicant and Main works contractor
3	ES Chapter 6 – Paragraph 6.11.4	Construction	Construction traffic for the main site works would be minimised with deliveries being programmed to quieter periods on the road network, where possible, taking account of peak traffic periods and local events.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 6.1.3	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
4	ES Chapter 6 – Paragraph 6.11.2	Construction	The developer will ensure all contractor and subcontractor vehicles arriving at site comply with sufficient safety measures and requirements relating to Work Related Road Risk (WRRR)	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 9.2.1	The Applicant and Main works contractor
5	ES Chapter 6 – Paragraph 6.11.10	Construction	A crossing point on Norman Road, to the north of the access to Isis Reach, is proposed to facilitate workforce movements between the Main Temporary Construction Compound and the REP site.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 2.4.3	Main works contractor
6	ES Chapter 6 – Paragraph 6.11.11	Construction	For the construction of the Electrical Connection, where footways and cycleways have to be temporarily closed, suitable alternative temporary pedestrian and cycle facilities will be provided to maintain a safe environment for pedestrians and cyclists.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 6.2.6	Main works contractor
7	ES Chapter 6 – Paragraph 6.11.2	Construction	Construction traffic routing to the REP work site would be from Norman Road which has direct access to the A2016 via a left in and left out junction. A copy of the route plan would be given to all suppliers when orders are placed to ensure drivers are fully briefed on the required route to take.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 4.1.1 and 9.2.7	Main works contractor
8	ES Chapter 6 – Paragraph 6.11.2	Construction	A pedestrian and cycle access would be provided, separate to the vehicle access, for site workers and visitors to access the site offices, welfare and laydown areas. The strategy for accessing on-site parking would be identified within the compound	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 5.1.3	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
			layout and details provided in the detailed CTMP for that stage.		
9	ES Chapter 6 – Paragraph 6.11.2	Construction	Wheel washing to be provided to prevent material and debris from being deposited onto Norman Road and the adjacent highway.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 5.1.5	Main works contractor
10	ES Chapter 6 – Paragraph 6.11.2	Construction	Access to the Cable Route Temporary Construction Compounds would be configured, to allow access in a forward gear, manoeuvring within the compound to deliver to the site and exit in a forward gear.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 5.4.1	Main works contractor
11	ES Chapter 6 – Paragraph 6.11.2	Construction	Where feasible, water transport could be considered for inbound materials and outbound construction waste streams.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 9.3.1	The Applicant and Main works contractor
12	ES Chapter 6 – Paragraph 6.11.2	Construction	The potential to use prefabricated assemblies and techniques could be considered as an approach to reduce the number of construction vehicle movements.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 9.4.1	The Applicant and Main works contractor
13	ES Chapter 6 – Paragraph 6.11.2	Construction	Demolition materials arising from site clearance and ground preparations could be reused as part of the site levelling and the provision of a building platform and piling mat for the construction works.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 9.4.2	Main works contractor
14	ES Chapter 6 – Paragraph 6.11.2	Construction	Where appropriate, materials, equipment and plant could be sourced from local suppliers.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 9.4.4	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
15	ES Chapter 6 – Paragraph 6.8.1	Operation	Car and cycle parking provided to levels prescribed in the Draft London Plan to encourage access by non-car modes.	DCO Requirement 14 – outline Operational Worker Travel Plan (Appendix B.2) Section 4.3 and 4.4.	The Applicant
16	ES Chapter 6 – Paragraph 6.11.12 – 6.11.14	Operation	Operational Worker Travel Plan to encourage sustainable modes of transport.	DCO Requirement 14 – outline Operational Worker Travel Plan (Appendix B.2) paragraph 6.1.1	The Applicant
17	ES Chapter 6 – Paragraph 6.11.9	Operation	Implementation of a Worker Travel Plan, to encourage the use of non-car modes of travel and discourage private car use, coupled with the limited parking provided for construction staff.	DCO Requirement 13 – outline CTMP (Appendix B.2) paragraph 9.7.	Main works contractor
Air Quality					
18	ES Chapter 7 – Paragraph 7.8.2	Construction	Best practice measures to limit construction dust, include: wheel washing, damping down of stockpiles during dry and windy conditions, and sheeting materials to prevent dust migration.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.3.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
 Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
19	ES Chapter 7 – Paragraph 7.8.2	Construction	<p>Standard mitigation measures for low risk sites, taken from the Institute of Air Quality Management (IAQM) document ‘Dust and Air Emissions Mitigation Measures’ (2014) tables would be applied. These are:</p> <ul style="list-style-type: none"> ■ Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken; ■ Make the complaints log available to the local authority when asked; ■ Record any exceptional incidents that cause dust and/or air emissions, either on- or off- site, and the action taken to resolve the situation in a log book; ■ Avoid bonfires and burning of waste materials on site; and ■ Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport. 	<p>DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.3.3. Note, the CoCP is a certified document under schedule 11 of the DCO.</p>	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
20	ES Chapter 7 – Paragraph 7.8.2	Operation	Stack height of at least 90m to adequately disperse emissions.	DCO Requirement 3 – Parameters of the authorised development	The Applicant
21	ES Chapter 7 – Paragraph 7.8.2	Operation	Implementation of Emission Limit Values for Design and Operation of the Equipment to control the requirements of the Industrial Emissions Directive (IED), draft Waste Incineration Directive BAT Reference Document (BREF) and Medium Combustion Plant Directive.	Environmental Permit	The Applicant
Noise and Vibration					
22	ES Chapter 8 – Paragraph 8.8.2	Construction	The scheme design, where feasible, has attempted to place some of the noisier elements such as the Air Cooled Condenser (ACC) furthest away from the noise sensitive receptors.	DCO Requirement 2 – Detailed Design Approval	The Applicant
23	ES Chapter 8 – Paragraph 8.8.3	Construction	The CoCP would incorporate best practice working methods such as: <ul style="list-style-type: none"> Core hours for construction works of 7am to 7pm Mondays to Fridays, 7am to 1pm on Saturdays with no works on Sundays/Public Holidays. This would not preclude work: carried out within existing buildings or buildings constructed as part of the authorised development; carried out with the prior approval of the relevant planning authority; are associated with an 	DCO Requirement 12 – Construction Hours and Outline CoCP (Document Reference 7.5) paragraph 4.4.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	The Applicant

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
			emergency; or, are associated with slip form working.		
24	ES Chapter 8 – Paragraph 8.8.3	Construction	<ul style="list-style-type: none"> Ensuring the use of quiet working methods, the most suitable plant and reasonable hours of working for noisy operations, where reasonably practicable 	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.4.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	The Applicant
25	ES Chapter 8 – Paragraph 8.8.3	Construction	<ul style="list-style-type: none"> Screening fixed and mobile plant to reduce noise which cannot be reduced by increasing the distance between the source and the receiver (i.e. by installing acoustic screens/enclosures) 	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.4.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	The Applicant
26	ES Chapter 8 – Paragraph 8.8.3	Construction	<ul style="list-style-type: none"> Where practicable, orienting fixed and mobile plant that is known to emit noise strongly in one direction so that the noise is directed away from dwellings or 	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.4.3.	The Applicant

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
			sensitive receptors, where possible;	Note, the CoCP is a certified document under schedule 11 of the DCO.	
27	ES Chapter 8 – Paragraph 8.8.3	Construction	<ul style="list-style-type: none"> Closing acoustic covers to engines when they are in use or idling 	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.4.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	The Applicant
28	ES Chapter 8 – Paragraph 8.8.3	Construction	<ul style="list-style-type: none"> Engage with local residents to keep them informed of the proposed working schedule, where appropriate, including the times and duration of any abnormally noisy activity that may cause concern. 	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.4.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	The Applicant
Townscape and Visual					
29	ES Chapter 9 – Paragraph 9.8.2	Construction	Land / vegetation clearance and occupation would be limited to the minimum area necessary for the works.	DCO Requirement 6 – Replacement planting for Work no	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				9.	
30	ES Chapter 9 – Paragraph 9.8.2	Construction	Temporary protection of vegetation and other vulnerable features to be retained would be undertaken in accordance with prevailing best practice.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
31	ES Chapter 9 – Paragraph 9.8.2	Construction	Temporary storage of soils and other material considered of value for retention would be undertaken in accordance with prevailing best practice.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
32	ES Chapter 9 – Paragraph 9.8.2	Construction	Construction areas would be laid out to minimise adverse impacts arising from temporary structures, construction activities and lighting.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2. Note, the CoCP is a certified document	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				under schedule 11 of the DCO.	
33	ES Chapter 9 – Paragraph 9.8.2	Construction	Use of construction site lighting outside normal working hours would be restricted to the minimum necessary for workforce and public safety, and for security. Directional luminaries would be used to limit unwanted light spills.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
34	ES Chapter 9 – Paragraph 9.8.2	Construction	The maintenance of tidy and contained site compounds.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
35	ES Chapter 9 – Paragraph 9.8.2	Construction	Fencing or hoardings erected around the area of construction works, to create a temporary visual barrier to construction activities and also as a safety measure, to prevent access to the general public.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2. Note, the CoCP is a certified document	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				under schedule 11 of the DCO.	
36	ES Chapter 9 – Paragraph 9.8.2	Construction	Tree protection fencing to be implemented as necessary	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2 (Note, the CoCP is a certified document under schedule 11 of the DCO), and DCO Requirement 4 – Pre-commencement biodiversity and landscape mitigation strategy (Document Reference 7.6) table 3. Note, the BLMS is a certified document under schedule 11 of the DCO.	Main works contractor
37	ES Chapter 9 – Paragraph 9.8.2	Construction	Temporal measures including the removal of all temporary structures and stockpiles when no longer required, and prompt reinstatement of construction areas.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2. Note, the CoCP is a	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				certified document under schedule 11 of the DCO.	
38	ES Chapter 9 – Paragraph 9.8.2	Construction	Replacement of trees, shrubs and hedgerows removed to accommodate the Electrical Connection, subject to underground constraints and as far as practicable. Replacement planting would be maintained for a minimum of 12 months to ensure full and successful establishment.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.5.2 (Note, the CoCP is a certified document under schedule 11 of the DCO), and DCO Requirement 5 – outline Biodiversity and Landscape Mitigation Strategy (Document Reference 7.6) Note, the BLMS is a certified document under schedule 11 of the DCO.	Main works contractor
39	ES Chapter 9 – Paragraph 9.8.2	Operation	Orientation of the Main REP Building to allow for visual permeability through the REP site from Belvedere to the River Thames.	DCO Requirement 2 – Detailed Design Approval	The Applicant
40	ES Chapter 9 – Paragraph 9.8.2	Operation	The following design principles have been relied upon as mitigation items for the assessment:	Design Principles (Document Reference 7.4)	The Applicant

Riverside Energy Park: Environmental Statement (ES)
 Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
			<ul style="list-style-type: none"> ■ To reduce the physical envelope of the Main REP building and its perception of scale through the progression of a design that accords with a stepped building form; ■ A simplicity of architectural form, with form following function, resulting in a dynamic interplay of buildings along the riverscape, and an inter-connecting family of forms on the site; ■ Celebrating the historical industrial nature of the site, and its industrial nature with glimpses of process operations through semi-solid screens which break down the solidity of the building masses; ■ Use of graded colour schemes, materials, and branding to reduce the perceived height of the Main REP Building - with upper elements of buildings lighter and lower levels darker; ■ The choice of colours will draw on the initial colour studies illustrated in the DAS and the context colour palettes, allowing the building and structures to respond to the surrounding landscape, townscape and 	<p>Section 3 and DCO Requirement 2 – Detailed Design</p>	

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
			<p>riverscape and provide harmony to the building;</p> <ul style="list-style-type: none"> Neutral and non-reflective colour palette for façade materials to avoid glare, with accent colours used to assist way orientation, and intuitive wayfinding, and enhance the REP identity and sense of place. 		
Historic Environment					
41	ES Chapter 10 – Paragraph 10.11.4	Construction	If required, a Written Scheme of Investigation (WSI) for the excavation of two boreholes to be retained for palaeoenvironmental assessment/analysis.	DCO Requirement 7 – Written Scheme of Investigation (if required)	The Applicant and Main works contractor
42	ES Chapter 10 – Paragraph 10.11.5	Construction	If required, a Written Scheme of Investigation (WSI) identifying any areas where further archaeological investigations are required, the nature and extent of the investigations required and providing details of the measures to be taken to protect, record or preserve any significant archaeological features that may be found	DCO Requirement 7 – Written Scheme of Investigation (if required)	The Applicant and Main works contractor
Terrestrial Biodiversity					

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
43	ES Chapter 11 – Paragraph 11.8.1	Construction	Impacts to watercourses along the Electrical Connection route will be minimised through the use of trenchless installation techniques.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.7.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
44	ES Chapter 11 – Paragraph 11.8.1	Construction	Impacts to water voles in the ditch adjacent to the REP site, Main temporary Construction Compound, and Data Centre site will be avoided by ensuring an offset of at least 5 m from the top of ditch bank.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.7.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
45	ES Chapter 11 – Paragraph 11.8.1	Construction	Noise effects during construction will be mitigated through several measures in line with BS 5228 Code of practice for noise and vibration control on construction and open sites. These measures include: <ul style="list-style-type: none"> ▪ Defined core working hours; ▪ Ensuring the use of quiet working methods and the most suitable plant where 	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.4.3 and 4.7.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
			<p>reasonable practicable;</p> <ul style="list-style-type: none"> ■ Screening fixed and mobile plant to reduce noise which cannot be reduced by increasing the distance between the source and the receiver; ■ Orientating fixed and mobile plant that is known to emit noise strongly in one direction so that the noise is directed away from dwellings or sensitive receptors, where possible; and ■ Closing acoustic covers to engines where they are in use or idling. 		
46	Chapter 11 – Paragraph 11.11.1	Construction	The loss of habitats of ecological value within the REP site will be compensated through a financial contribution to the Environment Bank with a legal agreement for contribution towards enhancement of habitats outside the Application Boundary.	DCO Requirement 5 – outline Biodiversity and Landscape Mitigation Strategy (Document Reference 7.6) paragraph 5.1.2. Note, the BLMS is a certified document under schedule 11 of the DCO.	The Applicant

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
47	Chapter 11 – Paragraph 11.11.1	Construction	<p>An Outline Biodiversity and Landscape Mitigation Strategy (OBLMS) (Document Reference 7.6) has been prepared and submitted with the application and includes the following:</p> <ul style="list-style-type: none"> ▪ a set of principles and parameters that will be applied when replacing/creating habitats; ▪ an obligation to provide a final biodiversity metric valuation at the detailed design stage; and, ▪ obligations in respect of monitoring and reporting on offsetting. 	DCO Requirement 5 – outline Biodiversity and Landscape Mitigation Strategy (Document Reference 7.6). Note, the BLMS is a certified document under schedule 11 of the DCO.	The Applicant and Main works contractor
48	ES Chapter 11 – paragraph 11.8.1	Operation	Stack height of at least 90m to adequately disperse emissions	DCO Requirement 3 – Parameters of the authorised development	The Applicant
49	ES Chapter 11 – paragraph 11.8.1	Operation	An Outline Lighting Strategy establishes the minimum lighting levels required to construct and operate a safe, secure and energy efficient development, assesses the potential effects of exterior lighting required for REP on light sensitive receptors, and establishes design objectives for the lighting design to minimise the effects or obtrusive	DCO Requirement 15 – Operational lighting strategy (Appendix K.3) paragraph 1.4.2	The Applicant and Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
			light to within guideline levels.		
50	ES Chapter 11 – paragraph 11.8.1	Operation	The rate of surface water run-off leaving the site and entering the adjacent watercourse network is limited to the 1 in 100-year greenfield rate of 35.3l/s. Surface water storage will be provided by a below ground tanked system. Therefore, Surface water run-off from the REP site will be managed in a sustainable manner and the strategy will deliver ‘betterment’ when reviewed within the context of the existing (pre-development) surface water run-off regime.	DCO Requirement 9 – Surface and Foul water drainage Flood Risk Assessment (Document Reference 5.2) paragraph 7.1.5	The Developer and Main works contractor
Hydrology, Flood Risk and Water Resources					
51	ES Chapter 12 – Paragraph 12.8.2	Construction	Management system (the method of working, provisions for flood warning and a flood incident management plan) to adequately manage works within the flood plain.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.8.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	The Developer and Main works contractor
52	ES Chapter 12 – Paragraph 12.8.2	Construction	Best practice working methods to prevent both water pollution and adverse impacts upon the surface water drainage regime.	DCO Requirement 11 – outline CoCP (Document Reference 7.5)	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				paragraph 4.8.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	
53	ES Chapter 12 – Paragraph 12.8.2	Construction	Appropriate storage of oil and chemical tanks in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002 and Control of Pollution (Oil Storage) Regulations 2001.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.8.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
54	ES Chapter 12 – Paragraph 12.8.2	Construction	Any surface water potentially contaminated by hydrocarbons will be passed through oil/grit interceptors prior to discharge.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.8.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
55	ES Chapter 12 – Paragraph 12.8.2	Construction	Precautions would be undertaken to ensure that silt laden runoff, arisings or chemicals are not allowed to enter watercourses.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.8.2.	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				Note, the CoCP is a certified document under schedule 11 of the DCO.	
56	ES Chapter 12 – Paragraph 12.8.2	Construction	Where required, cables would be laid at a sufficient depth beneath watercourses to avoid causing damage the integrity of embankments during installation.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.8.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
57	ES Chapter 12 – Paragraph 12.8.2	Operation	During operation, the Environment Agency will set limits on the quality of water that is discharged from the REP Site under the Environmental Permit.	Secured through the Environmental Permit	The Applicant
58	ES Chapter 12 – Paragraph 12.8.2	Operation	Surface Water Management infrastructure designed in accordance with CIRIA C753 and guidance set out by the Lead Local Flood Authority such that surface water run off regime replicated that existing prior to development	DCO Requirement 9 – Surface and foul water drainage Flood Risk Assessment (Document Reference 5.2), Appendix H.2 to the FRA, paragraph 2.1.	The Applicant

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
59	ES Chapter 12 – Hydrology, Flood Risk and Water Resources, Para. 12.8.2	Operational	Implementation of SuDS, i.e. interceptors and silt traps.	DCO Requirement 9 – Surface and Foul Water Drainage	The Applicant
60	ES Chapter 12 – Paragraph 12.8.2	Operation	Finished floor levels would be an appropriate freeboard above the modelled breach flood level of the River Thames, with flood sensitive equipment further raised compared to floor levels.	Document Reference 5.2 – Flood Risk Assessment (FRA). Note, the FRA is a certified document under schedule 11 of the DCO.	The Applicant
Ground Conditions					
61	ES Chapter 13 – Paragraph 13.8.2	Construction	Removal of potential contaminated ground will be undertaken in accordance with the Waste Duty of Care Code of Practice (March 2016).	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.9.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
62	ES Chapter 13 – Paragraph 13.8.2		The excavation and re-use of materials would be undertaken in accordance with a Materials Management Plan (MMP), included in the final CoCP	DCO Requirement 11 – outline CoCP (Document	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				Reference 7.5) paragraph 4.9.2. Note, the CoCP is a certified document under schedule 11 of the DCO.	
63	ES Chapter 13 – Paragraph 13.8.3	Construction	Piling techniques to minimise the risk of mixing of aquifer bodies through the creation of new pathways.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.9.3. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
64	ES Chapter 13 – Paragraph 13.8.3	Construction	Use of appropriate PPE and good working practices in accordance with respective design codes and controls to reduce exposure to construction dust and vapour	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.9.9. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
65	ES Chapter 13 – 13.8.4	Construction	Where required, temporary confined spaces/ construction buildings would include void space below them to allow for passive ventilation.	DCO Requirement 11 – outline CoCP (Document Reference 7.5)	Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				paragraph 4.9.5. Note, the CoCP is a certified document under schedule 11 of the DCO.	
66	ES Chapter 13 – Paragraph 13.8.8	Construction	Where the Electrical Connection Route crosses the River Darent to the south of Bob Dunn Way, the proposed option for trenchless installation techniques avoids any excavation or ground disturbance within the area of the former historical landfill.	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.9.8. Note, the CoCP is a certified document under schedule 11 of the DCO.	Main works contractor
67	ES Chapter 13 – Paragraph 13.11.1	Construction	Identification of the requirement for additional intrusive ground investigation, data collection and analysis to refine the preliminary ground gas risk assessment and enable specific protection measures for construction workers to be defined (if required).	DCO Requirement 10 – Ground conditions and ground stability. Further information is included within the outline CoCP (Document Reference 7.5)	The Applicant and Main works contractor
68	ES Chapter 13 – Paragraph 13.11.1	Construction	Following completion of the additional ground investigation, monitoring and assessment, refinement of the ground gas risk assessment and mitigation adopted to include any specific personal protection measures.	DCO Requirement 10 – Ground conditions and ground stability. Further information is included within the	The Applicant and Main works contractor

Riverside Energy Park: Environmental Statement (ES)
Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				outline CoCP (Document Reference 7.5)	
69	ES Chapter 13 – Paragraph 13.11.2	Construction	Identification of a clean cover system in areas of soft landscaping for the protection of human health (end users) in relation to asbestos. Following further assessment and review, details of the system will be included in the Remediation Strategy.	DCO Requirement 10 – Ground conditions and ground stability. Further information is included within the outline CoCP (Document Reference 7.5)	Main works contractor
70	ES Chapter 13 – Paragraph 13.11.3	Construction	Recommendations for specific personal protection measures for construction workers during excavations and ground disturbance in Made Ground, including recommendation for further assessment which would provide for final specific personal protection measures to be included in the Remediation Strategy.	DCO Requirement 10 – Ground conditions and ground stability. Further information is included within the outline CoCP (Document Reference 7.5)	Main works contractor
71	ES Chapter 13 – Paragraph 13.11.4	Construction	Any structures or confined spaces proposed will incorporate appropriate ground gas protection measures in accordance with appropriate investigation, monitoring and assessment (if required).	DCO Requirement 11 – outline CoCP (Document Reference 7.5) paragraph 4.9.11. Note, the CoCP is a	Main works contractor

Riverside Energy Park: Environmental Statement (ES)

Chapter 17 – Schedule of Mitigation and Monitoring

Ref	Source	Project Stage	Mitigation / commitment (including specific location and any monitoring required)	How the action is to be implemented / secured	Responsible person(s)
				certified document under schedule 11 of the DCO.	