



# Roundtable Meeting 10 June 2015

## Scheme description



## Presentation covers

- Video – overview of Project (video on [www.northlondonheatandpower.london](http://www.northlondonheatandpower.london))
- Procurement and construction timeline
- Assessments / application documents
- Details of scheme
  - Waste statistics
  - Site layout and design principles
  - Energy recovery
  - Environmental Permit

## Programme

- Phase 2 consultation until 30 June 2015
- Finalise DCO submission and ongoing discussions with stakeholders July – September 2015
- DCO Submission – October 2015

## Procurement and Construction (Anticipated Dates)

- Develop procurement and funding strategy – 2017
- Technology and construction procurement – 2017 – 2019
- **Construction** starts with site clearance at south – 2019
- New facility operational 2025
- Demolition of the existing EfW – 2026/2028

## Assessments/application documents 1

- Environmental Statement (**Preliminary Environmental Information Report**). Topics covered:
  - Air quality
  - Noise and vibration
  - Transport
  - Ecology
  - Environmental wind
  - Daylight, sunlight and overshadowing
  - Socio-economics
  - Ground conditions and contamination
  - Water resources and flood risk
  - Visual
- Transport Assessment (**Interim Transport Assessment including Travel Plans**)
- Planning Statement
- Draft DCO, Explanatory Memorandum, CPO Statement of Reasons, Funding Statement, Book of Reference
- Consultation Report (**Phase 1 Consultation Feedback Report**)
- Statement on Potential Statutory Nuisances and Mitigation Measures
- Combined Heat and Power Development Strategy (**Interim CHP Strategy**)

**Bold** = currently available as part of Phase 2 Consultation

## Assessments/application documents 2

- Design and Access Statement (**Design Statement**)
- DCO Heads of Terms
- Grid Connection Statement
- Health Impact Assessment (**Interim Health Impact Assessment**)
- Utilities Strategy
- Code of Construction Practice (**Interim Code of Construction Practice**)
- Sustainability Statement
- Need Assessment (**Interim Need Assessment**)
- Alternatives Assessment Report (**Interim Alternatives Assessment Report**)
- Report on Natural Features (**Preliminary Report on Natural Features**)
- Statement to inform Habitats Regulations Assessment (**Interim Statement to inform HRA**)
- Book of Plans (**Draft Book of Plans**)

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## Waste Statistics

- Currently around 827,000 tonnes of waste collected by the north London boroughs (households and businesses) per annum
- 80% from households
- 33% is re-used, recycled or composted (excludes recovering energy from waste)
- target – to re-use, recycle and compost half of the waste by 2020
- Modelling indicates 1.07 million tonnes of waste to be collected in north London by 2050

## What the site would look like

- Buildings on site:
  - The Energy Recovery Facility
  - The Resource Recovery Facility, including a Reuse and Recycling Centre
  - EcoPark House
- Infrastructure – roads, weighbridges, security
- Two new access points – east and north
- Landscaping



## Water use and cooling

- Water or air cooled system - water requirements (taken from Salmon's Brook) of each varies
- The amount of mains water required at the site would increase but in the context of London water availability, this would not be significant
- Located within a groundwater Source Protection Zone - integrity of the Clay aquiclude will be retained
- FRA
  - parts of site are within Flood Zone 2 at risk of flooding from the 0.1% AEP fluvial event- development is appropriate for Flood Zone 2
  - flood storage compensation will be provided on site for loss of floodplain volume at Ash Wharf
- Sustainable drainage (SuDS) strategy

## Redline Boundary

Energy Recovery Facility

Demolition of existing EfW

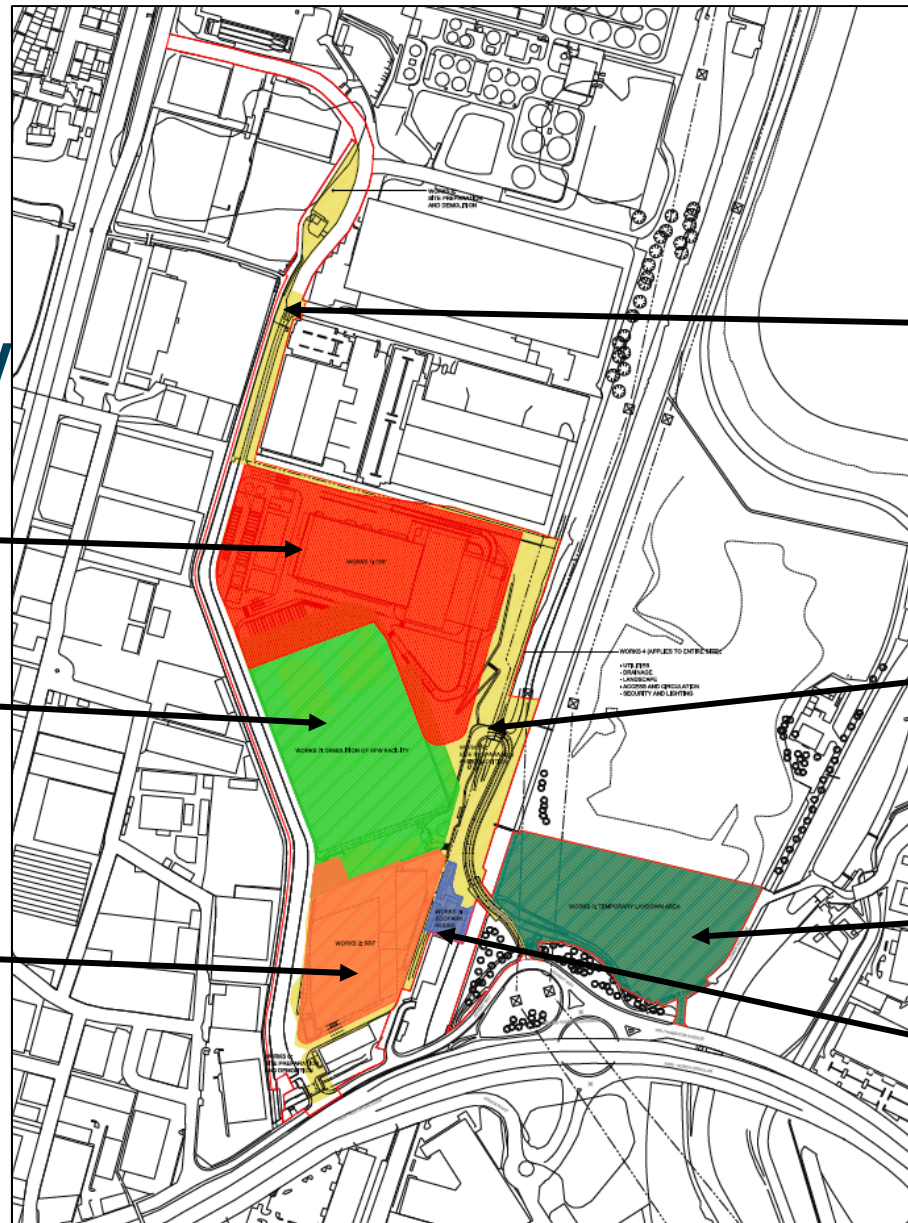
Resource Recovery Facility

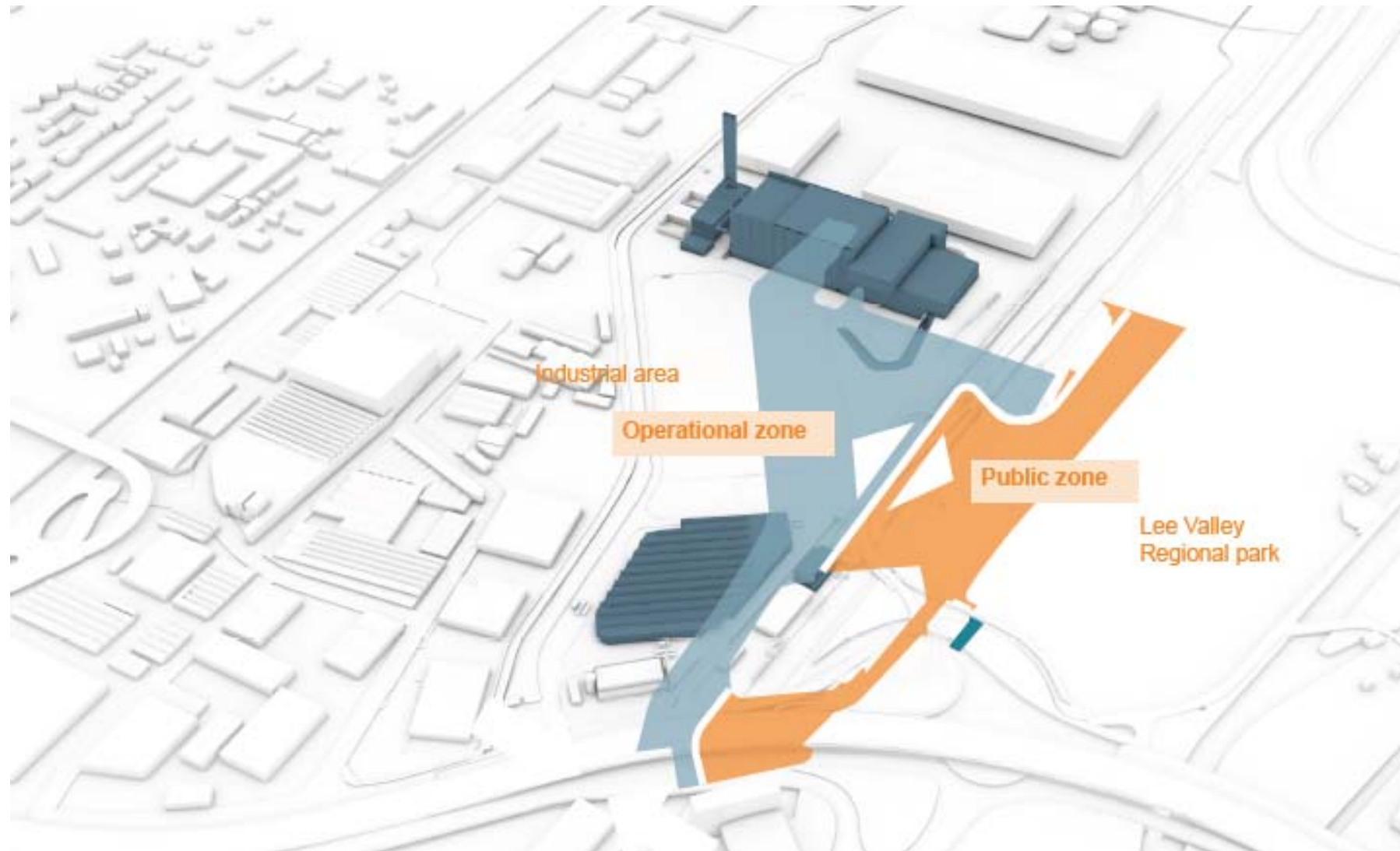
New northern access

New eastern access

Temporary Laydown Area

EcoPark House





## What the site would look like

The design:

- Provides space for landscaping the EcoPark
- Ensures the existing plant can operate up until the replacement is operational
- Provides space for a visitors' centre in EcoPark House
- Delivers facilities required to manage north London's waste
- Creates new site access points
- Has a public zone to the east and an operational zone to the west

## What the site would look like – Energy Recovery Facility



Indicative design of  
the proposed Energy  
Recovery Facility

- 'Shrink wrap' design to keep height and shape to a minimum
- 'Steps' down towards the Lee Valley Regional Park to break up the building
- Propose different materials for different parts of the facility to make the building better fit the setting



## What the site would look like – the Resource Recovery Facility



Indicative view of the  
Resource Recovery  
Facility from the north  
of the EcoPark

- Will accommodate activities currently carried out at the north of the site (except composting)
- One side for bulky waste management
- The other side will be a new Reuse and Recycling Centre from 2021 onwards

## What the site would look like – EcoPark House



Indicative view of  
EcoPark House from  
the River Lee  
Navigation

- An education and visitors' centre
- Home to the Sea Cadets
- It could also have community use

## New energy recovery facility proposals

- A replacement facility
- capacity of 700,000 tonnes of waste a year
- Operational by 2025
- Be one of the most efficient of its kind in the UK by today's standards
- High quality design and build
- Emission control best currently available



## Power generation

- Current plant provides enough power for around 72,000 homes
- Replacement facility could provide enough power for around 127,000 homes
- Potential to connect to local heat networks – active engagement with Lee Valley Heat Network, promoted by LB Enfield

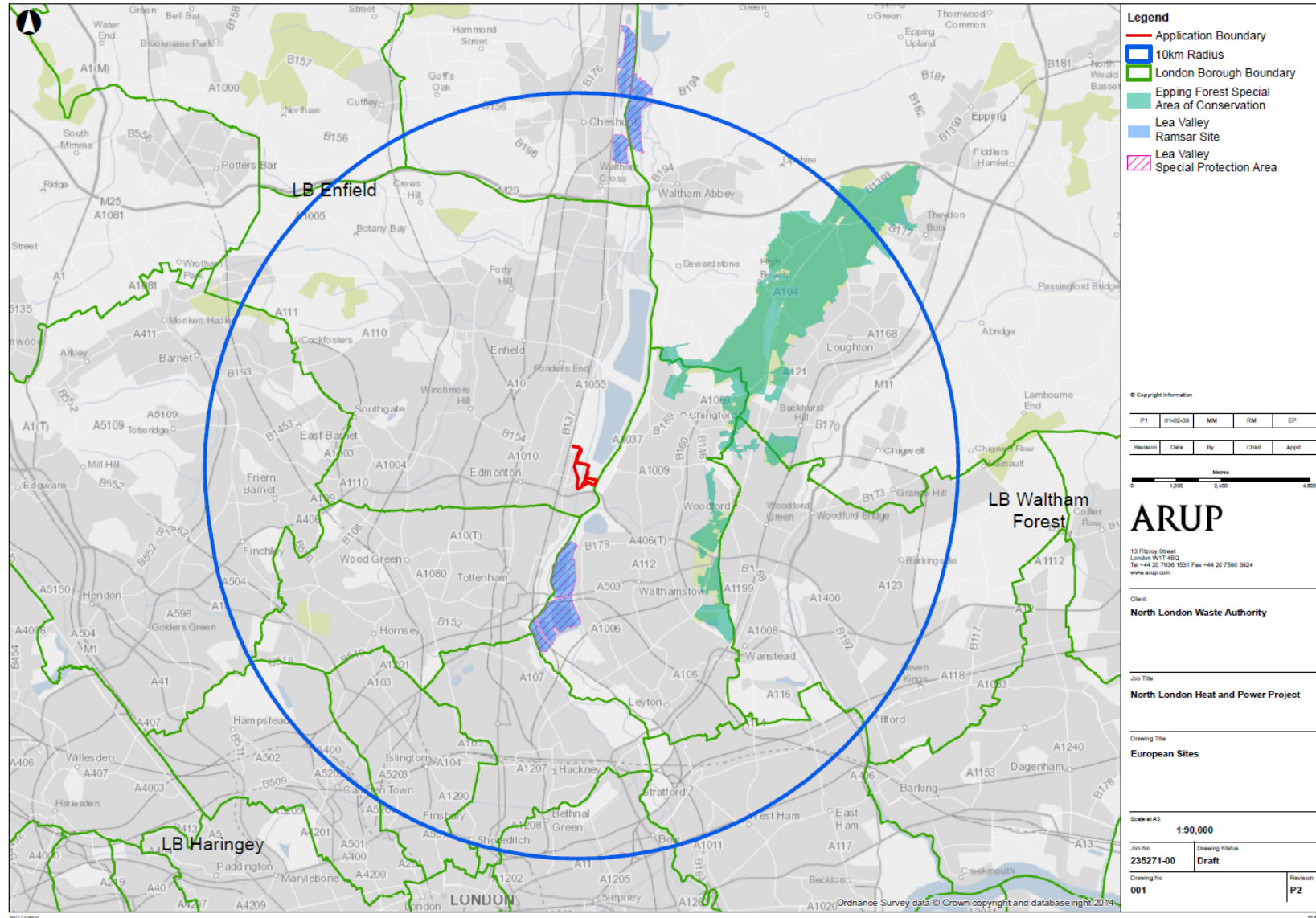
## Air quality – proposals for replacement facility

- Emissions from plant as part of process of energy recovery
- Current plant meets/exceeds required standards
- NLWA Members have agreed proposed cleaning/emissions management systems above UK current standards
- In line with best continental European emission standards
- Future proof against changes to emissions limits
- Enfield and other north London adjoining boroughs carry out air quality monitoring - meaning information is available over time
- Environment Agency regulates and monitors air emissions

## Environmental Permit and other permits

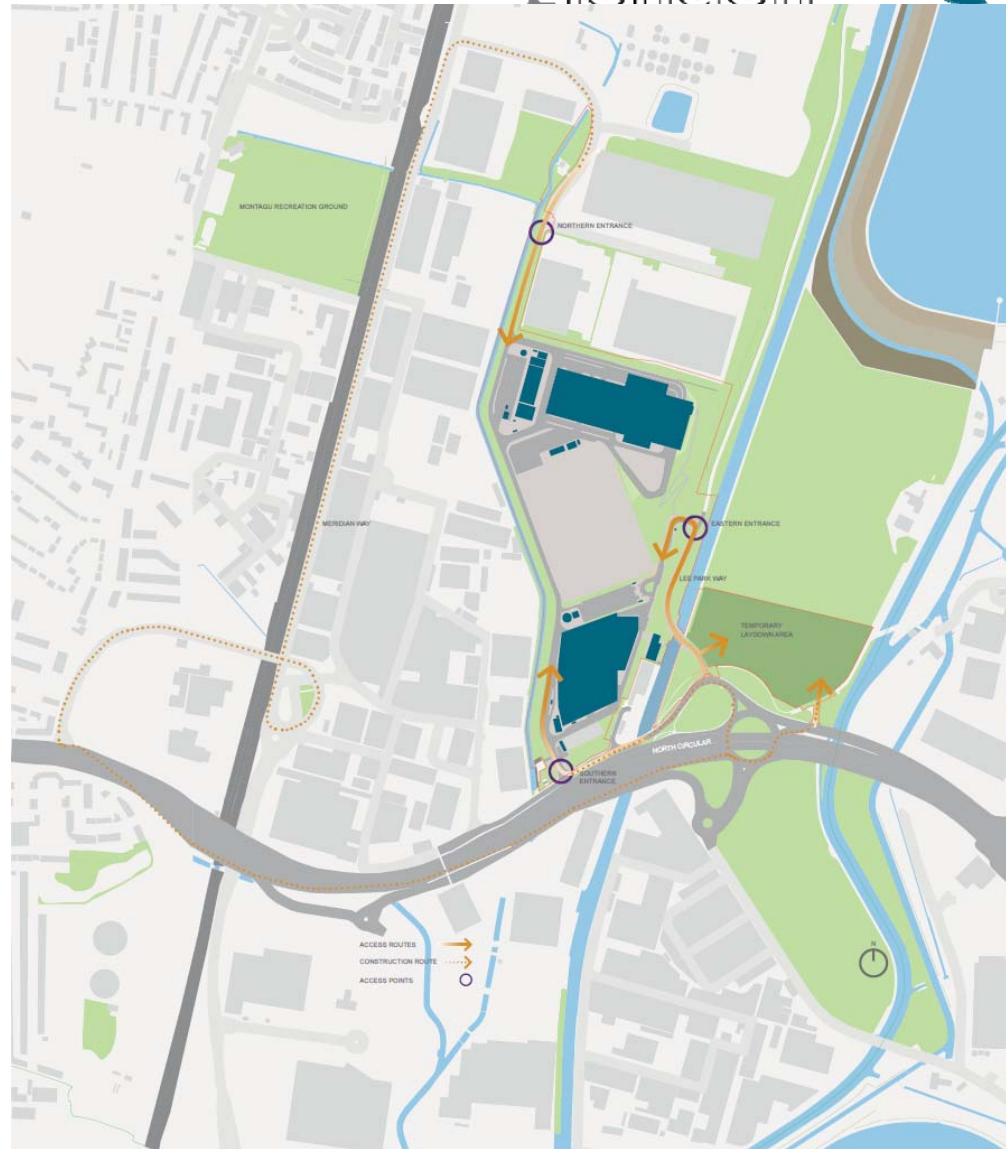
- Process in place to demonstrate permit will be available for ERF
- Whole site permit proposed
- Other consents and permits are under consideration and will be progressed as necessary, e.g. Water discharge consent, highways consents, waste carrier broker licence

# Habitats Regulations Assessment



## Traffic and Transport

- Do not envisage significant change in number of trips
- Assessed in Transport Assessment and ES
- New public access
- Water transport has been considered but not feasible



## Information available

- Website: [www.northlondonheatandpower.london](http://www.northlondonheatandpower.london)
- Email: [info@northlondonheatandpower.london](mailto:info@northlondonheatandpower.london)
- Documents available through website including:
  - PEIR
  - Need case
  - Design statement
  - Book of Plans
  - Code of Construction Practice