

Market Information Day – Preparatory Works
March 2018





Overview

Presented by Martin Capstick, Managing Director



# To be covered today



- North London Heat and Power Project NLHPP Scheme Overview
- Site management issues
- Scope of contracts / work packages
- Form of contracts and procurement
- Future procurements
- Questions

## **NLHPP** – the rationale



- NLWA disposes of all household waste collected by the north London Boroughs – Barnet, Camden, Enfield, Hackney, Haringey, Islington and Waltham Forest, as well as C&I waste collected by those boroughs
- Total waste arisings within 7 boroughs at present approx. 850ktpa
- Estimated amount required to be treated at new Energy Recovery Facility (ERF) rising from current 550ktpa to over 600ktpa over period to 2050
- Existing facility at Edmonton doing well, but aging need new facilities to ensure ongoing ability to manage waste
- Sizing does not crowd out recycling assumes 50% recycling across area, which is a stretch target
- Application for permission to build new ERF with supporting infrastructure

# **NLHPP Project Overview**



- New Energy Recovery Facility (ERF) at the Edmonton EcoPark 2025/2026
- Preparatory works more detail today:
  - Laydown Area and Access points; Sewer Diversion; Utility Bridge and Corridor; UKPN Grid Connection
- Other buildings on site:
  - Resource Recovery Facility (RRF) waste reception, bulking and pretreatment; Recycling and Reuse Centre for public
  - EcoPark House visitor reception, education and office
- Works after ERF construction:
  - Decommissioning & demolition of old EfW; finalisation of site wide works including landscaping; restoration of Laydown Area

# **NLHPP Project Overview**



- Planning in place Development Consent Order (DCO) granted for works in February 2017
- Land issues managed through DCO and site is under control
- Site operational LondonEnergy Ltd (LEL) operating existing Energy from Waste Plant
- Phasing of works to allow for construction of ERF on north of site
- Programme management arrangements and liaison with London Energy to ensure
  - Ongoing site health and safety maintained
  - Construction and operational use and traffic coordinated and managed
- We will be seeking to encourage apprenticeships during the project

# Purpose of today



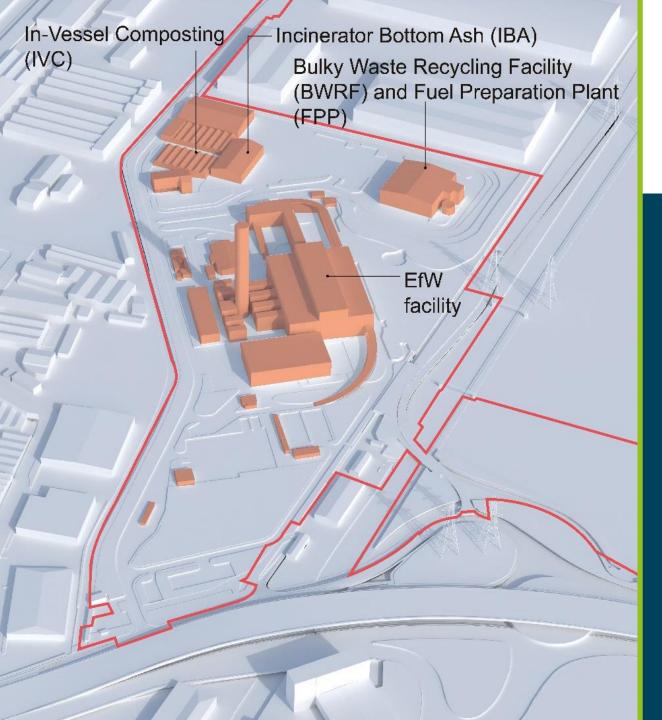
- Planning to procure in June for the following:
  - Laydown Area
  - Northern and Eastern Accesses
  - Sewer Diversion
  - Utilities packages
- The next sections of the presentation will cover these in more detail



Site Management

Presented by Euston Ling, Technical Manager



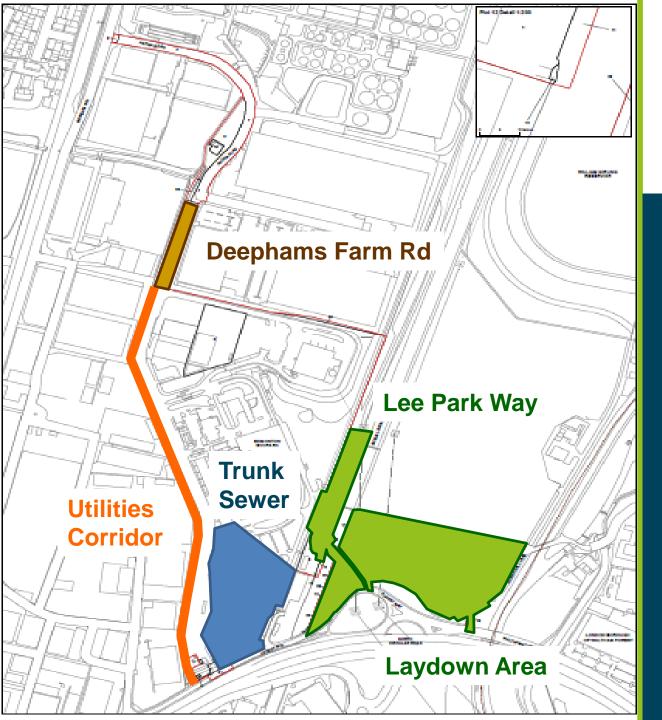




### **Edmonton EcoPark & Current Operations**

 NLWA's wholly owned company, LondonEnergy Ltd (LEL), own and operate the EcoPark

- 16 ha operational site
- Energy Centre (EfW) operating since 1970 with a capacity of ~550ktpa (continuous operation)
- In-vessel composting facility processing mixed food and garden waste (to be relocated off-site)
- Incinerator Bottom Ash Reprocessing facility operated by Ballast Phoenix (to be relocated off-site)
- Bulky Waste Recycling & Fuel Preparation to maximise recycling and energy recovery (relocated on-site)





## **NLHPP Site Preparatory Works**

22.2 ha site with multiple statutory stakeholders

- South of site underlain by Chingford and Angel sewers
- 3.3 ha Laydown Area to east for materials storage and fabrication, contractors' compound, and vehicle parking
- Upgrade of Lee Park Way to separate operational and non-operational areas on EcoPark
- Utilities corridor along edge of Salmons Brook to enable transition from EfW to ERF without break in disposal service
- Reinstatement of Deephams Farm Road to separate construction traffic from operational traffic

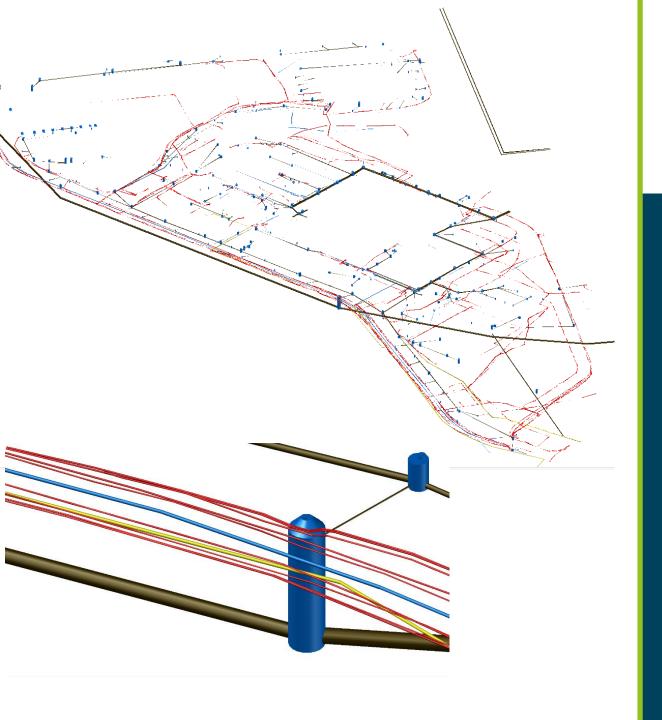




### **Health & Safety**

 The Health and safety of everyone associated with the NLHPP is an absolutely priority

- Site will remain an operational site throughout construction period
- While logistics may be difficult at times, safety violations will not be tolerated
- Contractors will be responsible for all aspects of health and safety within their physical battery limits but must adhere to LEL's safety rules and procedures outside these areas
- Day to day liaison with LEL will be through NLWA's programme managers and site supervisor





### **NLHPP and Future Site Operations**

 Aim is to transition to a new state-of-the-art Energy Recovery Facility by end 2025.

- Production and finalisation of a 3D utilities model for the entire project site
- Potential interaction with Lee Valley Heat Network's onsite decentralised energy facility
- Demolition of existing EfW after ERF becomes operational
- Currently no plans for area left vacant by demolition of EfW
- Landscaping and restoration of laydown area and open areas operational site



# The Works

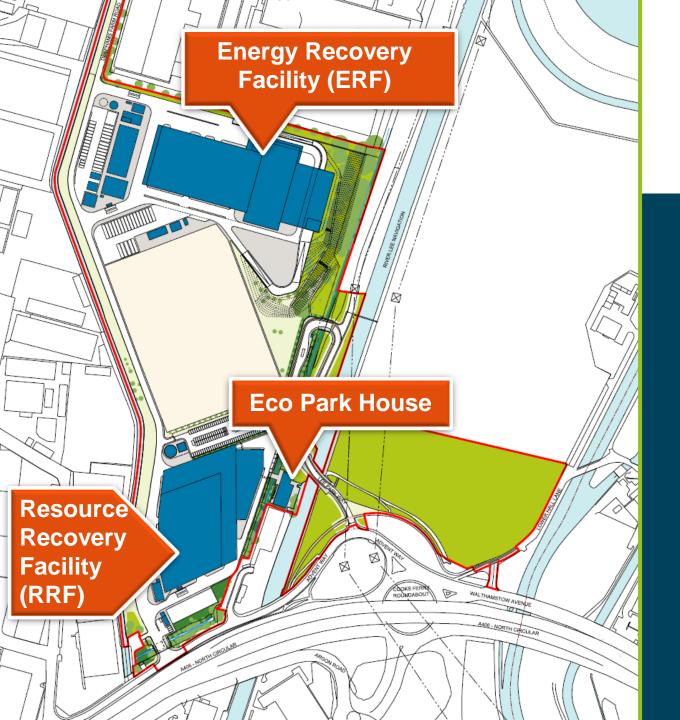
Presented by Wood, Waste and engineering TA





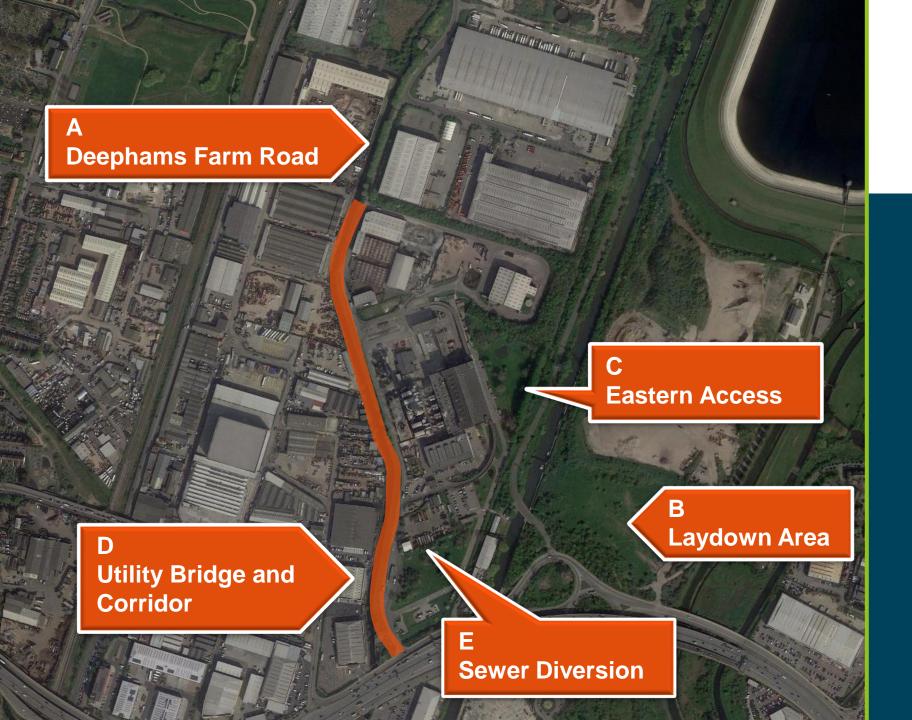


EcoPark, Advent Way – Existing Site Plan





North London Heat and Power Project – Key facilities



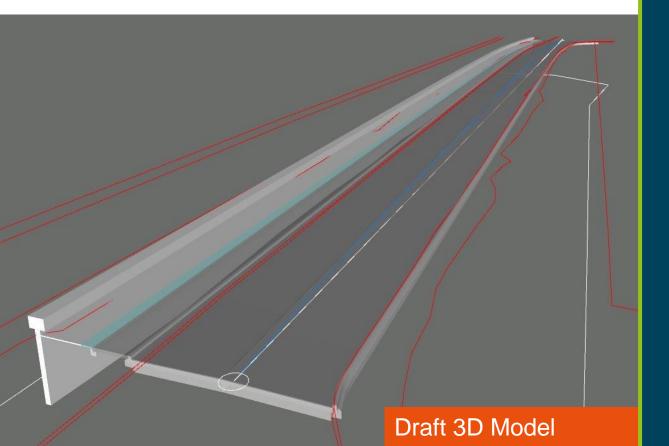


EcoPark, Advent Way –Preparatory works





# A. Deephams Farm Road



#### What is it?

- 160 metre long road in poor condition
- To be upgraded to take construction traffic, then operational traffic

- NEC 4 Contract
- Approx. Capex £1M
- Arrangements traditional build (detailed design by Wood), CDM PD – Wood, PC – the contractor
- Anticipated Programme 6 months
- Scope tree clearance, river bank stabilisation, utilities, flexible pavement road





# **B.** Laydown Area



#### What is it?

 3.28 ha area adjacent to North Circular – to provide office, welfare, parking and storage areas for contractors

- NEC 4 Contract
- Approx. Capex £4M
- Arrangements traditional build only (detailed design by Wood), CDM PD – Wood, PC – the contractor
- Scope Site clearance, utility, infrastructure, access ramp, formation of hardstanding and roads access
- Electricity pylons along western edge





## C. Eastern Access



#### What is it?

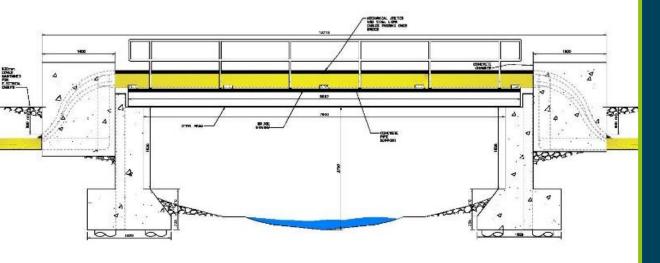
 190m of new road and crossing of Enfield Ditch to provide new eastern entrance to the site

- NEC 4 Contract
- Approx. £13 M Capex
- Arrangements traditional build only (detailed design by Wood), CDM PD – Wood, PC – the contractor
- Scope Repairs to existing River Lee
   Navigation Bridge, new river crossing of
   Enfield ditch, new flexible pavement road with
   services, pedestrian/cycling provision





# D. Utilities Bridge and Corridor

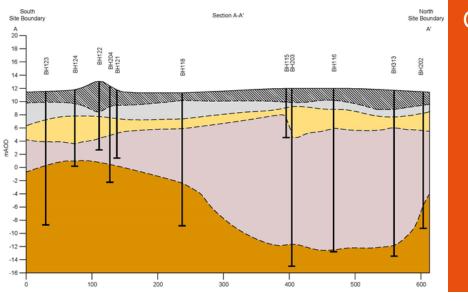




#### What is it?

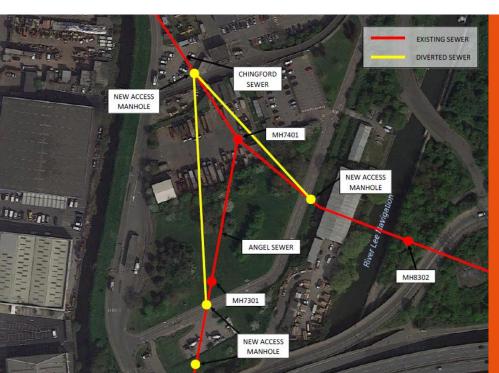
 The Utility Bridge and Corridor comprises a 730 metre strip of existing and proposed utilities to service the EcoPark NLHPP. It runs the length of the site north to south from Advent Way to Deephams Farm Road, alongside main site road

- NEC 4 or SU's standard form of Contract
- Approx. Capex: £5M
- Arrangements Traditional or design and build, in compliance with Statutory Undertaker requirements for work on their assets
- Scope: Significant diversions and relocations to existing services (site & statutory undertaker), protection of critical services, new pipe bridge over Enfield Ditch, new service routes and road crossing



## Geology

## **E. Sewer Diversion**





#### What is it?

Construction of approximately 300m of new 1200mm diameter Thames Water sewer

### **Key facts:**

- Thames Water approved contractors
- Replaces existing live 450mm and 980 mm diameter sewers, the largest main conveying approximately 1m3/s
- Design and Build NEC 4 Contract
- Approximate capex £3.5M
- Scope detailed design, temporary works (dewatering, drive shafts, etc.), permanent works to TWUL approval

Plan

# Recap



- We have covered:
  - The project and the rationale for it
  - The site, and work areas
  - The works we are planning to procure this summer
- Any questions so far?



Contracts and Procurement

Presented by Ursula Taylor, Head of Legal and Governance



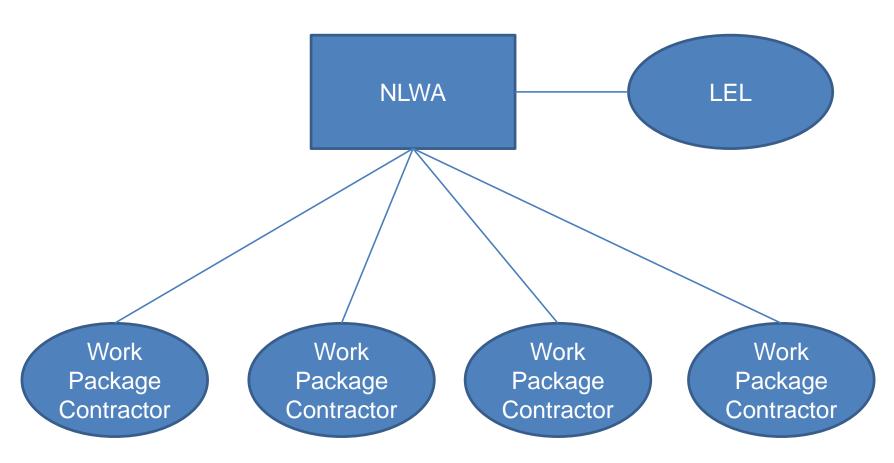
## **Choice of standard form contract**



- Adopting a common form of contract across as many work packages as possible
- Chosen NEC4 because:
  - proactive risk management
  - collaborative working
  - a project management tool not gathering dust in a drawer
  - Government endorsed for use by the public sector
- Option A (Priced contract with activity schedule)
- Note that negotiation of contract terms will not be permissible so NEC4 Z clauses will be commercially realistic

## **Contractual structure**





## **Traditional or D&B?**



- Considered on a package by package basis
  - NLWA designs with Wood and others, contractor carries out works on the basis of that design; or
  - contractor responsible for design and build although NLWA will specify initial design elements (e.g. site wide "look and feel", management of interfaces between packages and DCO elements)
- Key factors in making the choice:
  - complexity of design/works package
  - to what extent does NLWA need to dictate the design?
  - will transfer of risk be value for money?

# **Public procurement route**



- All preparatory works packages procured either by:
  - restricted procedure if above threshold; or
  - a below threshold procedure
- Separate procurement for each work package
  - lots considered (i.e. multiple work packages under a single procurement)
  - decided against (because packages are quite discrete and to keep it simple)

## **Procurement documents and timescales**



- Common procurement documents across NLHPP whenever possible
  - Standard Selection Questionnaire (Cabinet Office + PAS91)
  - ITT with NEC4 forms for completion (e.g. Contract Data)
- Anticipated procurement launch in June 2018, subject to approvals
- Programme will be updated on website as timings for works with third party involvement become clearer
- Processes will be run in line with minimum statutory timescales (e.g. 30 day tender period) and similar for below threshold, unless good reason to do otherwise
- The SQ period gives you time to get ready

# **Contract and procurement summary (1)**



Work package	Contract	Traditional or D&B	Process
Deepham's Farm Road	NEC4	Traditional (detailed design by Wood)	Below threshold
Laydown Area	NEC4	Traditional (detailed design by Wood)	Restricted
Eastern Access	NEC4	Traditional (detailed design by Wood)	Restricted
Sewer diversion	NEC4	D&B (TW approved outline design will form part of the Scope and contractors must be TW approved)	Below threshold
Utilities Bridge and Corridor	NEC4/SU standard	Traditional or D&B depending on Scope and in line with SU's requirements	Below threshold

# Contract and procurement summary (2)



Work package	Notice	Timing
Deepham's Farm Road	Contracts Finder	June 2018, subject to EA approval
Laydown Area	Contracts Finder & OJEU	June 2018
Eastern Access	Contracts finder & OJEU	June 2018 subject to EA approval
Sewer diversion	Shortlist invited from TW approved list	Q4 2018
Utilities Bridge and Corridor	Contracts Finder or invited from SU approved list	June 2018 at the earliest, but subject to Statutory Undertaker requirements

# **Future Procurements**



Work Element	Start of procurement (Indicative)			
Building Works				
RRF construction and northern site clearance	Q2 2019			
Site-wide Works	Q2 2019			
EcoPark House	Q2 2019			
ERF Works				
ERF	Q2 2020			
Post-ERF Works				
Decommissioning and Demolition of EfW Facility	Q3 2025			
Southern Access Widening	Q4 2025			



Questions?



# **Questions?**



- Any questions?
- Any comments on proposals
  - Looking for any comments on contract packages, practicalities, scope