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Construction Management Plan.

**South Heywood, New Build,
Primary Substation**

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1. Introduction

This Construction Management Plan (CMP) has been prepared in respect of discharging planning Conditions, associated with the proposed development of the **“New, South Heywood, Primary Substation”** build on currently vacant land off Queen Elizabeth II Way (QEII Way), South Heywood, Rochdale. These works form part of the wider **“Northern Gateway Scheme”**, which aims to deliver around 1 million square meters of industrial and warehousing space, including an Advanced Manufacturing Park, and over 2500 homes. The preparation of the substation plot, including mass ground movement, drainage diversions, removal of culvert, constructing access from QEII and development of the wider site, is being completed in advance of ENWL’s contract start, by our **“Client”**, **“Russell LDP”**.

This Construction Management Plan (CMP) will aim to mirror the general procedures within the **“Russell LDP – CMP”**, already agreed and approved by the **“Planning Authority”** for the wider overall development & substation plot preparation works, which will be completed by **“Russell LDP”**, prior to handover to ENWL.

This CMP is based on measures to ensure legal compliance and established good management practice and includes the following:

- Project Description
- Project Location
- Construction Working Hours
- Site Establishment & Welfare Facilities
- Worksite Perimeter boundary
- Parking, Deliveries and Loading/Unloading of Plant and Materials
- Control of Dust & Dirt emissions
- Noise & Vibration
- Considered Construction
- Waste Management
- Details of an Emergency Contact Telephone Number

1. Project Description

The works form part of the wider **‘Northern Gateway Scheme’** and will include the construction of a new 32MVA primary substation on a plot of land pre developed by **“Russell LDP”**.

Fig 1: Substation site location plan:



Fig 1: Note, the red ‘X’ denotes the approximate location of the new substation & the red box

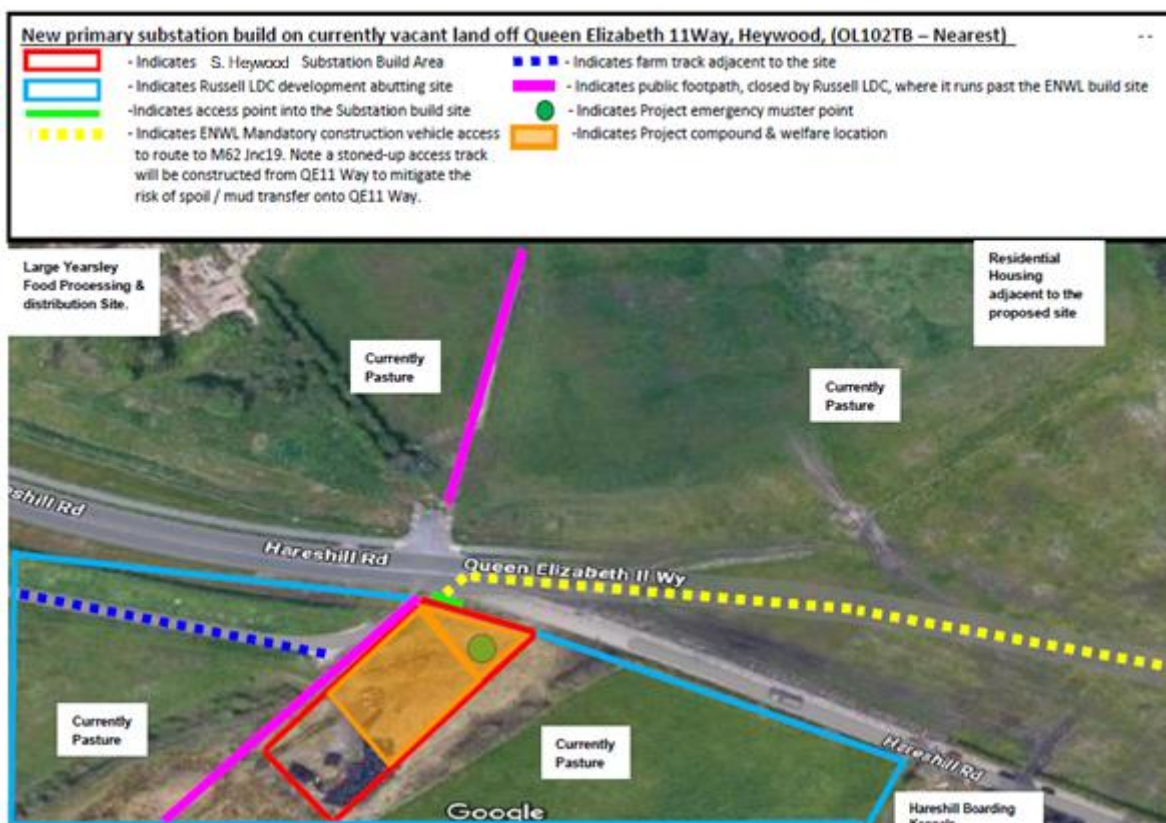
denotes the extent of the site, during construction, including up to the access point of QE11 Way.

2. Project Location

The site sits in off and south of the “QE11 Way”, near the point of the road name change to “Hareshill Road”, with red ‘X’ in Fig 1 above showing the approximate grid location for the substation build location (SD 85061 09062) The site is currently boarded on to the south, east & west, by grazing pasture, which may or may not have turned to ongoing development of the wider ‘**Northern Gateway Scheme**’ by the time ENWL commence the substation build, To the north, there is undeveloped scrub, including farm access track, with “QE11 Way” beyond.

The site access will be directly onto “QE11 Way”. “QE11 Way”, east bound leads directly to Junction 19 of the M62 motorway network, with access to both east & west carriageways.

Fig 2: Substation constraints plan:



3. Hours that construction may take place

The standard working hours for all construction activities will be from:

- 8.00am – 18.00pm Monday to Friday
- 8.00am – 13.00pm Saturday
- Site deliveries will take account of neighboring properties and surrounding businesses where possible to minimise impact on traffic levels surrounding the site. Sundays and Bank Holiday working will be avoided where possible but may be required throughout the works.
- There could be certain circumstances where construction works will be required to take place outside of these hours e.g. substation plant delivery to minimise disruption to adjacent businesses.

4. Site Establishment & Welfare Facilities:

Full welfare and site office provisions will be provided for the duration works to accord with Schedule 2 of the Construction Design & Management Regulations 2015.

An area within the footprint of the proposed ENWL build site. Will be allocated to site the welfare provision. Area included above on **Fig 2: Substation constraints plan**:

- **Worksite Boundary:**

The erection of a Heras fence site perimeter. Secured with anti-tamper clips, including lockable gates, will be included as part of the civil tender scope of works. The Heras fence will be:

- Erected & maintained for the lifecycle of the planned works, by competent persons, ensuring there is no risk of harm to the public
- Secure the site and prevent unauthorised access
- Will be suitably braced to prevent failure due to strong winds.
- Will be included on the Temporary works register & will be visually inspected daily & recorded by a competent person. Subsequent inspections and maintenance will be completed following any adverse event, including but not limited to, security breach, adverse weather event, accidental damage, incident or accident.
- Suitable construction hazard warning signs will be posted around the perimeter

5. Parking, Deliveries and Loading/Unloading of Plant and Materials

A stoned-up access track, off “**QEII Way**”, will be installed, which will extend to and include the site. compound area, within the proposed build demise. A 5MPH speed limit will be enforced to prevent dust uplift from vehicles & mobile plant. An area will be allocated for Site Operatives and Visitor parking.

Plant & Vehicle Movement:

- Loading and unloading of plant and materials will be within the proposed build demise stoned up area.
- A 5mph speed limit will be enforced for the safety of pedestrians, as well as dust control.
- Vehicles will enter site forward & reverse park and if driver vision is restricted, a Vehicle Marshall shall be used. Under the direction of a Vehicle Marshall, all large vehicles / deliveries, will deploy flashing amber light and audible warning, where available, and will reverse into site & drive out forwards.

ENWL will ensure, where deliveries that restrict access to neighboring residential or businesses, will be planned to ensure access is maintained. This will generally mean outside of peak commuter travel periods & if required in the evening or at weekends. Note evening and weekend deliveries will not be carried out without prior agreement from ENWL.

Note! As previously agreed between ENWL’s Client “**Russell LDP**” & the “**Local Planning Authority**”, ENWL will comply with the conditions below:

No deliveries will be permitted to use:

- Heap Brow from the junction of the A58 to Moss Hall Road
- Coronation Avenue linking the A6046 to the A6045
- A6045 Section of Heywood Old Road
- Pilsworth Rd from the A58 Bridge St to the Pennine Business Park

Please see **Fig 3: Traffic Management plan**, below for HGV access routes to and from site..

Fig 3: Traffic Management plan:



6. Control of dust & dirt emissions

During the works, there will be various activities which have the potential to generate particle emissions arising from dust, dirt and smoke.

Suitable dust monitoring and suppressing measures are to be operated throughout the construction phase to ensure that airborne dust moving towards the closest significant receptors are captured. In addition to monitoring, several other mitigation methods will be implemented to minimise the nuisance and impact arising from dust, dirt and smoke produced during construction. These include:

- Vehicles carrying loose aggregate and workings will be always sheeted.
- Regular inspection and, if necessary, cleaning of local highways and site boundaries
- Minimise surface areas of stockpiles (subject to health and safety and visual constraints regarding (aggregates, sand and waste stockpiles) to reduce area of surfaces exposed to wind pick-up.
- Where practicable, stockpiles of soils and materials will be located as far as possible from sensitive properties taking account of prevailing wind directions and seasonal variations in the prevailing wind.
- During dry or windy weather, material stockpiles and exposed surfaces will be dampened down using a water spray to minimise the potential for wind pick-up
- Offsite cutting of materials where practical
- Use of dust-suppression tools for all operations.
- Restricting vehicle & plant movement to 5MPH & if necessary, damping down stone chipping compound surfaces
- Implementation of toolbox talk regime to inform site personnel of the measure to be employed.

Where possible, measures will be adopted to ensure that construction traffic travels minimal distances along sensitive routes (residential or congested roads) and those vehicles are kept clean, with loads sheeted when on public highways.

Action will be taken to minimise and control any nuisance arising from construction traffic by using measures such as controlling vehicle speed, wheel washing and keeping all site entrances clean.

7. Noise and Vibration

Construction activities which generate noise and vibration such as excavation works, cutting of materials, breaking out of existing surfacing's and plant movements will be reviewed and planned to minimise, as far as reasonably practicable, the potential nuisance caused by the construction works. Mitigation measures will be considered including low noise options, noise attenuation techniques and alternative methods.

The construction works will comply with *BS 5228: Noise and Vibration control on construction and open sites* and the following mitigation measures are likely to be adopted as follows:

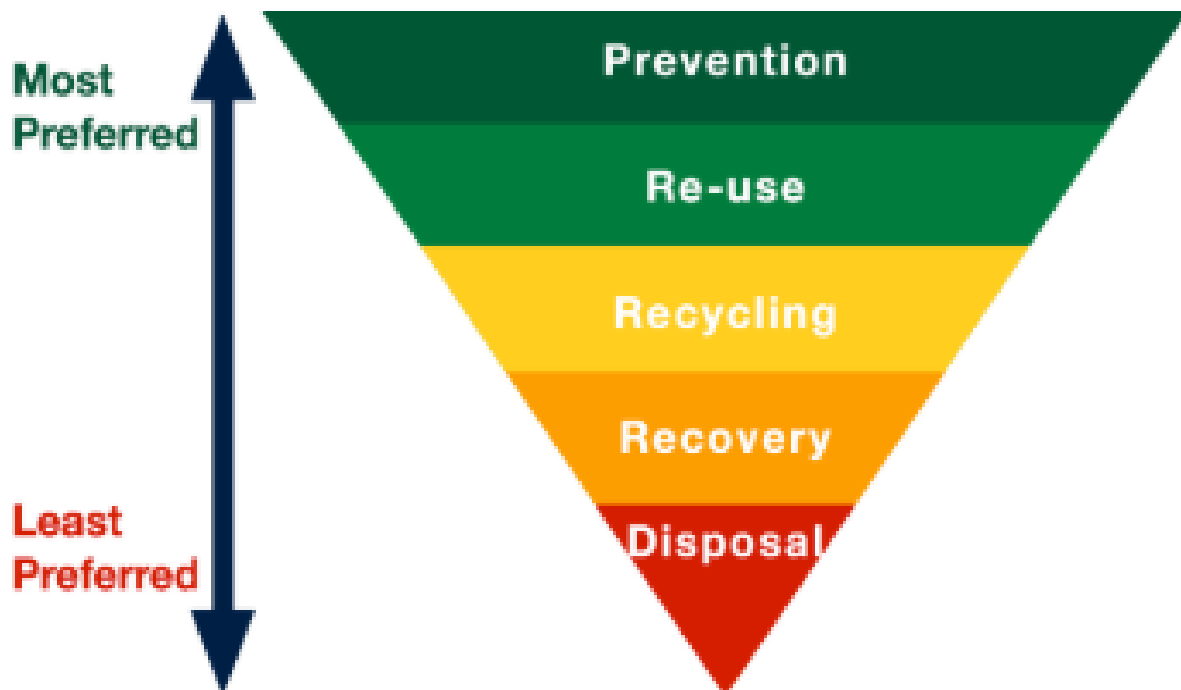
- Offsite cutting of materials where practical / materials made to order
 - Modern, silenced and well-maintained plant will be always used, conforming to current British standards.
 - Percussive plant will be avoided where alternative non-percussive plant is available for a given task.
 - Switching off engine to prevent idling, reducing fume & noise pollution.
 - Semi-static equipment is to be sited and oriented as far as is reasonably practicable away from noise sensitive receptors and will have localised screening if deemed necessary.
 - Where possible, mains electricity to be used instead of generators.
 - Burning equipment will be used in preference to cold cutting where possible.
 - Where possible, crunchers should be used in preference to pneumatic breakers. Where breakers are used, they should be of a suitable size for the task.
 - Concrete pours will commence as early as possible within normal working hours so that activities can be completed within normal working hours as far as possible.
 - Cutting operations or other noisy tasks will be minimised through off-site fabrication where practicable. Localised shielding of noisy operations may be required.
 - Wherever practical, noisy works, which are audible at the site boundary, will be undertaken during the following hours between 08.00 and 17.00 Monday to Friday and between 09.00 and 13.00 on Saturdays. Note! ENWL will seek prior approval prior to any weekend or out of hours work.
 - The hours of operation will be restricted as indicated in Section 4.
 - Personnel will be instructed on Best Practice Mitigation Measures to reduce noise and vibration as part of their site induction training.
 - Strict controls on the sequencing of works and providing noise protection would be developed on an activity-by-activity basis.
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8. Waste Management

All ENWL Construction projects will be undertaken in line with the **‘EPD991 Sustainable Development Policy Document’**. The **EPD991** policy documents ensures ENWL & Contractors working on their behalf operates in an environmentally, sustainable & responsible manner.

ENWL will ensure that their own activities or activities carried out on their behalf, by approved nominated contractors, follow the **‘Hierarchy of (waste management) Control’**, as detailed in **Fig 4:** below.

Fig 4: ‘Hierarchy of (waste management) Control’



The above **Fig 4: ‘Hierarchy of (waste management) Control’** will be achieved by

- Considerate design process designing out unnecessary waste streams, including but not limited:
 - Where possible, foundation design that reduces excavation depth, reducing the amount of spoil & energy required to move the spoil on site and minimising the amount of transportation for offsite disposal.
 - Smaller foundation footprint reducing the amount of concrete & re-bar use
 - Re-use or modification of existing structures e.g. concrete plinths / foundations
 - Where suitable, breaking out existing structures and re-using the material on site
 - Identifying where materials can be ordered in more precise quantities or made to measure / cut at manufacture source, to mitigate site waste.
- Recycling & recovery of waste can be achieved using designated skips on site e.g. Wood, metal & general waste for general mixed recyclables such a waste generated from plastic packaging.
- Ground spoil arisings, where of a suitable standard and free of harmful contamination, will be repurposed on site for either backfill, leveling of site or general landscaping.
- Where site waste is not fit for re-use, recycling or recovery, it will be segregated and will be disposed in line with current existing UK environmental legislation.

9. Considered Construction

To maintain a high standard of good practice at the site, the project will be managed to reflect the key principals of Considerate Construction and will adopt the requirements of these principals as follows:

- **Consideration:** All work to be carried out with positive consideration to the needs of all potentially affected parties and the environment in general.
- **Environment:** Minimising noise and dust from construction, use of local resources where possible, attention to waste management, avoidance of pollution and encouragement of recycling.
- **Cleanliness:** The working site is to be always kept clean in good order.
- **Good Neighbors:** Full and regular consultation with neighbor's regarding programming on-site activities.
- **Safe:** Construction operatives and site vehicle movements are to be carried out with great care and consideration for the safety and security of the public and site personnel.
- **Responsible:** Electricity North West will ensure that all site personnel and any other persons working on the site understand and implement the obligations of the Considerate Construction principals.
- **Accountable:** Information relating to the construction will be displayed around the site including on the information board in the site welfare and one to be established at the main gate.

10. Emergency Contact Details:

Electricity North West Contact Centre (Day): 0800 195 4141

Electricity North West Control (Evenings): 0843 311 3487
