# Method Statement for Cadent Gas Mains Replacement Work – IMGA221101 Farringdon to Abbey

## <u>Orchard</u>

## LBC Tree Officer: Nick Bell

## CMO Environmental Advisor: Brad Worrell

## **Summary**

Due to an enforcement policy issued by the Health and Safety Executive (HSE), Cadent Gas have been commissioned to abandon and replace the 48inch cast iron London Medium Pressure (LMP) Main with a new PE service in London Borough of Camden – Route Extent – Theobalds Road, Southampton Row Junction, Vernon Place, Bloomsbury Way, Shaftesbury Avenue (Grape Street).

Having reviewed the project, have been identified that the line of the gas main is within the canopies of trees located within the Shaftesbury Conservation Area. The location is within junction at Shaftesbury and at junction Grape Street.

Therefore, it may be necessary for Cadent to excavate within the RPZ of the trees located within the Conservation Area.

Plan of the affected trees which are located within the Shaftesbury Avenue Conservation Area can be found in Appendix 1.

## Site Control Measures

Cadent work to NJUG Volume 4 Standards and therefore the following measures have been put in place to minimise the impact on the tree:

## Prohibited Zone of a Tree RPZ (0-1m MMPfrom Trunk):

- Where an excavation is required within the Prohibited Zone, this will be completed via **hand-dig** and supervised by an Arborist.

- In the event where a root >25mm diameter is found and Cadent Operations may impact on the root, works will cease immediately and consultation with an Arborist will take place. Roots will only be severed if the Arborist confirms that the severance is unlikely to impact on the trees heath and stability.

- If the severance of roots <25mm diameter is required, this will be cut back using a sharp tool to leave the smallest wound.

- If possible, clumps of roots <25mm diameter (including fibrous roots) will be retained in situ without damage. Care will be taken to protect the bark around the roots.

- In an attempt to protect any roots against desiccation and temperature change, any exposed roots location in a trench which is to be left open overnight, will be wrapped with dry sacking. The sacking will be removed prior to backfilling.

- There will be no storage of plant, soil, fuel or machinery within the Prohibited Zone.

## Precautionary Zone of a Tree RPZ (1m from Trunk – 4 x Tree Circumference):

- Where an excavation is required within the Precautionary Zone, this will be completed by either **hand-dig**, a **blow-out air lance or vacuum excavator**.

- In the event where a root >25mm diameter is found and Cadent Operations may impact on the root, works will cease immediately and consultation with an Arborist will take place. Roots will only be severed if the Arborist confirms that the severance is unlikely to impact on the trees heath and stability.

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- In an attempt to protect any roots against desiccation and temperature change, any exposed roots location in a trench which is to be left open overnight, will be wrapped with dry sacking. The sacking will be removed prior to backfilling.

- There will be no storage of plant, soil, fuel or machinery within the Precautionary Zone.

## Permitted Zone of a Tree RPZ

- Where an excavation is required within the Permitted Zone, this will be completed with by either **hand-dig**, a **blow-out air lance or vacuum excavator**.

- In the event where a root >25mm diameter is found and Cadent Operations may impact on the root, works will cease immediately and consultation with an Arborist will take place. Roots will only be severed if the Arborist confirms that the severance is unlikely to impact on the trees heath and stability.

- If the severance of roots <25mm diameter is required, this will be cut back using a sharp tool to leave the smallest wound.

- If possible, clumps of roots <25mm diameter (including fibrous roots) will be retained in situ without damage. Care will be taken to protect the bark around the roots.

- In an attempt to protect any roots against desiccation and temperature change, any exposed roots location in a trench which is to be left open overnight, will be wrapped with dry sacking. The sacking will be removed prior to backfilling.

Please note the following:

- As per Cadent Operating Procedures, there will be no cutting down, topping or looping of third party trees without prior approval from the stakeholder. Any vegetation clearance taking place between 1<sup>st</sup> March – 30<sup>th</sup> September must have Bird Nesting check completed by an authorised ecologist.

- In the event in which a Nesting Bird is found within an excavation, plant or machinery or if Protected Species are found on site, works will cease immediately and the incident reported to the CMO Incident Line.

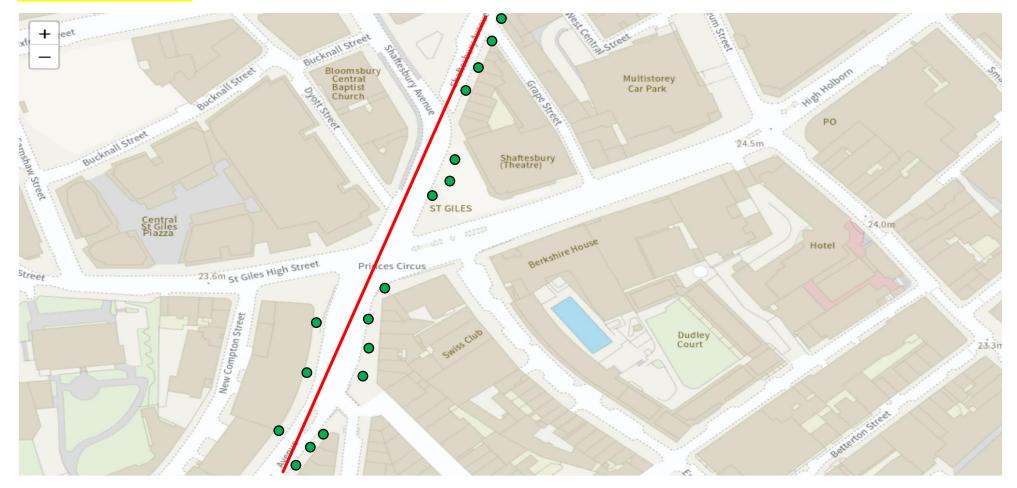
- In the event of an environmental incident on site, works will cease immediately and the incident reported to the CMO Incident Line.

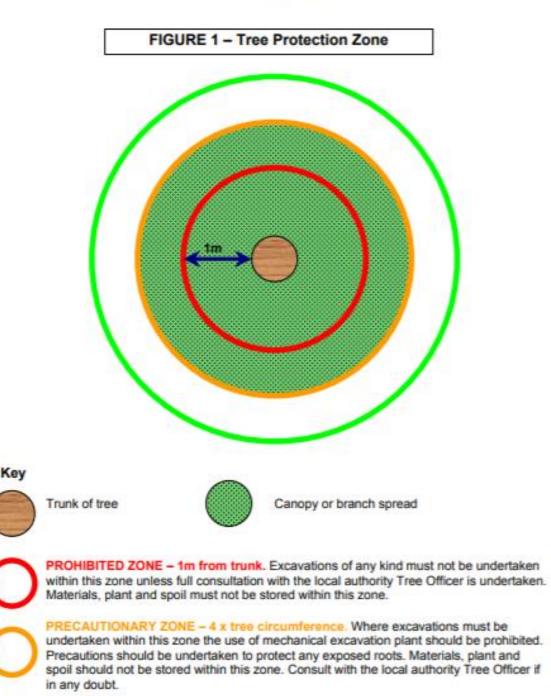
## Appendix 1 – Affected Trees

Tree to be affected by gas mains replacement works are highlighted below. This purely consists of severing roots to access the existing gas mains which are located within the public highway/footpath and lay new gas service. No above-ground works (ie. pruning/felling) will take place to any trees.

- Trees Affected Protected by Conservation Area Status
- = Location of Existing Gas Main

## Shaftesbury Avenue, London



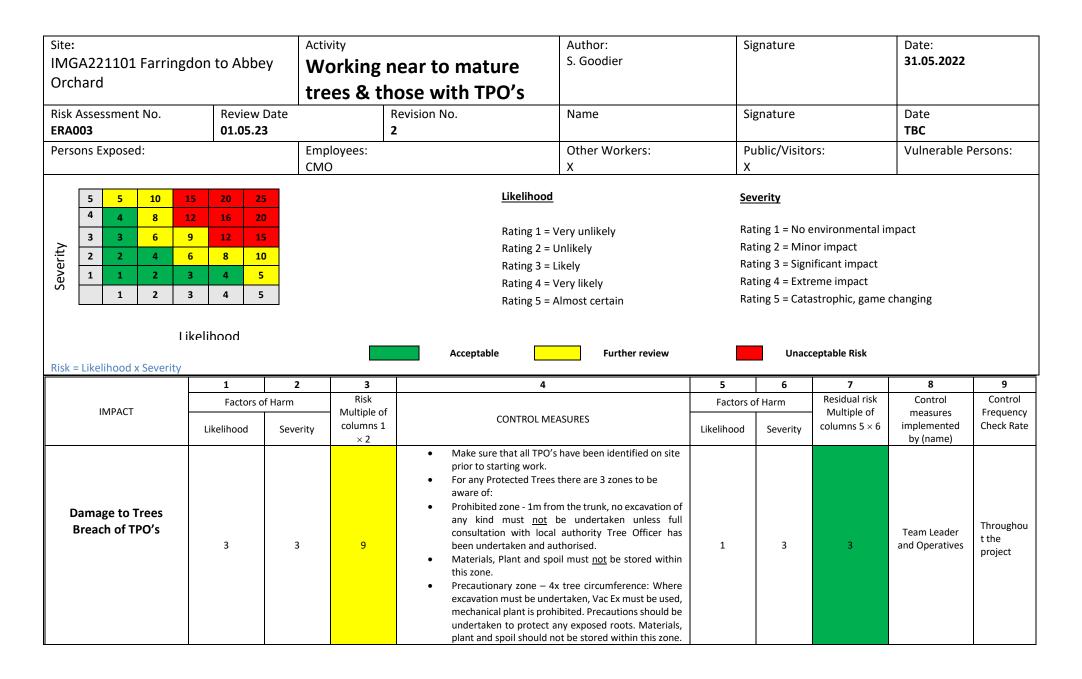


#### NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees

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PERMITTED ZONE – outside of the precautionary zone. Excavation works may be undertaken within this zone, however caution must be applied and the use of mechanical plant limited. Any exposed roots should be protected.

# For Cadent Reference Only: - AMEND TO KLT RISK ASSESSMENT. BW TO SENT TO LC ONCE RECIEVED



				Consult with Local Authority Tree Officer if in any doubt. • Permitted zone – outside the precautionary zone Excavation works may be undertaken, however caution must still be applied. Any exposed roots must be protected using hessian sacking	
Damage to Hedgerows Disruption to nesting wildlife	3	3	9	length, on special conservation areas, or considered Team Leader	1 <sup>st</sup> March to 30 September 20021
Limited Access	3	3	9	If possible and Royal Parks permit the use, ensure that 1 3 3 and digging	During excavation periods