

Southampton to London Pipeline Project

Deadline 6

Site Specific Plan - St Catherine's SANG (clean)

Application Document: 8.61

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1 Introduction

- 1.1.1 This plan provides further detail on the potential impacts, construction techniques and mitigation measures in this area as a standalone document that is certified as part of the Development Consent Order (DCO). Esso is required to comply with and implement the Site Specific Plan under Requirement 17 of the granted DCO.
- 1.1.2 The Suitable Alternative Natural Greenspace (SANG) at St Catherines Road was created in 2010 as part of a planning permission for 60 dwellings on the former Clewborough House School site, St Catherines Road, Frimley (SU/2009/0500).
- 1.1.3 The methodology covers the following:
- access;
 - vegetation removal;
 - construction programme;
 - enabling works;
 - Open Cut installation through the SANG; and
 - reinstatement.
- 1.1.4 Esso and its supply chain of contractor(s) will adopt the control measures set out in this Site Specific Plan when undertaking the installation of the pipeline.



2 Construction Programme

- 2.1.1 As set out in the Code of Construction Practice (CoCP), all construction activities within the SANG will be fully demobilised within a two-year period and reinstatement completed with all protective fencing removed unless otherwise agreed with the local authority.
- 2.1.2 Works may need to take place over the two-year construction period and works may not run concurrently. This allows for seasonal working constraints to be accommodated, i.e. ecological seasonal constraints, optimum replanting periods and optimum soil handling periods. Notwithstanding the above constraints, the detailed scheduling of the works will look to rationalise and work simultaneously where there is the ability to do so, to reduce disturbance to the SANG. As required under the CoCP, Esso recognises the need to minimise the extent to which it will close any part of the SANG to the public, and where possible, it will limit the extent and duration of its occupation.
- 2.1.3 Based on the preferred construction methodology, it is expected that within St Catherine's SANG approximately 56 weeks of work will be required for the installation of the pipeline, use of the compound and reinstatement.
- 2.1.4 Below is a summary of works and estimated duration but is subject to detailed programming and uncertainties such as weather and ground conditions.

Table 2.1: Estimated duration of works (based on working 6 days per week)

Works	Estimated Duration
Enabling works	2–3 weeks
Mobilisation	3 weeks
Open Cut	6 weeks
Construction compound	32 weeks. Supporting works within St Catherine's Road
Reinstatement	4–6 weeks. Reinstatement of the SANG will take into account seasonal constraints and will occur in the first available planting season.

- 2.1.5 The above table represents the case in which each element of works is carried out individually. During the detailed scheduling of the works, the project will look to rationalise the potentially overlapping activities between works to reduce disturbance to the SANG. An example of how this might be rationalised would be to undertake both the St Catherine's Road street works and installation in the SANG simultaneously, as they are distinct work activities, and then complete the Open Cut installation afterwards to link them together.
- 2.1.6 In line with Natural England's advice to reduce risk of visitor disturbance during construction works, the following measures will be taken.
- Clear, user-friendly information will be provided at access points in advance of works and whilst work is taking place so that regular visitors are aware of what is going on, and which makes clear that the site will remain open.
 - Staff on site, whilst works are ongoing, will provide a friendly interface with visitors.



- Works will be planned so as to avoid obstruction of main access routes.
 - 'Stringing out' area (where applicable) will be positioned to avoid obstructing access routes.
 - Working width will be kept to the minimum required for construction based on the technique/location, including temporary land take for storage of vehicles, materials, etc.
 - Any existing screen of vegetation will be maintained alongside access routes where this might help maintain low visibility of works area.
- 2.1.7 Backfilling and reinstatement will commence progressively to keep up with the pipeline installation to ensure that excavations are kept open no longer than necessary. Reinstatement could also be subject to seasonal constraints in relation to seeding and planting. Once areas are complete, the fencing can be removed.
- 2.1.8 No stringing out for horizontal directional drilling (HDD) is expected in the SANG, as the proposed method of installing the pipe in St Catherines Road is Open Cut. However, a stringing out area and associated reception pit area has been included within the Order Limits in the SANG as a contingency, in case the Open Cut installation in St Catherines Road is technically infeasible.
- 2.1.9 Should the installation method in St Catherines Road not be by HDD, the size and duration of the compound would be revisited and reoptimised.
- 2.1.10 Once the construction programme has been finalised, the local community will be informed and updated in line with the Community Engagement Plan. This will include clarification on which areas of the SANG that will be impacted by the works and identify open and diverted walking routes through the SANG.
- 2.1.11 All works will be planned to take place within the normal working hours as defined by the DCO. It is only in exceptional or emergency circumstances that the works will continue outside of the standard working hours.



3 Description of Works

3.1 Access

- 3.1.1 Public access into the SANG will not be prevented by the works. The undesignated paths/tracks within the SANG will be crossed by the working area. At the intersection between the working area and footpath/tracks, pedestrian crossing points will be installed, similar to those used for Public Rights of Way crossings. Pedestrians will have priority at these crossing points – the gates will only be 'closed' when works require. At such times, operatives will be stationed at the crossing point to facilitate public access as is possible.
- 3.1.2 Additional signage for diversions onto alternative existing paths will be displayed at the SANG access points and will include routes into Frith Hill woodland. These will be put in place as appropriate in advance of any closures, and will be kept up to date, with clear user-friendly information. In addition, when works are ongoing, key staff will be identified as the points of contact for day-to-day queries.
- 3.1.3 The circular walk will be impacted by construction. However, this will be adjusted to allow people to utilise a shortened circular route during the works. Similarly, should HDD be required for installation in St Catherines Road, the stringing area would be positioned and managed to maintain a circular walk.
- 3.1.4 The Public Rights of Way are outside of the SANG designated area. Access to these will be maintained during installation.
- 3.1.5 Dog walking and dogs being allowed off the lead will be possible during the works.
- 3.1.6 Construction access for the majority of the works within the SANG will be from St Catherines Road.

3.2 Vegetation Removal

- 3.2.1 The local landscape character of St Catherines SANG comprises a number of formal paths within amenity grassland and trees. Younger trees are scattered within the Order Limits with larger more mature trees around the boundary of the SANG, some of which are located within the SANG and some within the adjacent land. It is anticipated that none of the mature trees will require removal.
- 3.2.2 Sections 3.4 and 3.5 below outline the approach that will be taken during construction to reduce the impact to vegetation and trees within the SANG. As per Requirement 8(1)(a) of the DCO, the retention and removal of vegetation within the SANG must be undertaken in accordance with this Site Specific Plan (including the construction stage plan) unless otherwise agreed by the relevant planning authority.
- 3.2.3 It is anticipated that the Open Cut may require the removal of some of younger trees and shrubs and branch pruning of nearby trees.
- 3.2.4 It is anticipated that the construction compound will require the removal of a small number of younger trees and shrubs which have recently been planted within the



SANG but not the mature trees on the boundary with St Catherines Road, although branch pruning may be required.

- 3.2.5 A narrow working area of a maximum 15m width will be used for the installation of the pipeline through the SANG. The topsoil and vegetation from this area and the compound will be removed, prior to any construction works.
- 3.2.6 In the construction compound area, the roots from the mature trees along St Catherines Road will be protected from impact.

3.3 Security

- 3.3.1 The construction compound will be fully secure, with locked gates and on-site, 24-hour security and CCTV.
- 3.3.2 Heras-type fencing bolted together, or strong-wall fencing, will be used during the works. All plant and operatives will work within the fencing and compound.
- 3.3.3 The on-site, 24-hour security will patrol all working areas within the SANG.

3.4 Enabling Works

- 3.4.1 This primarily consists of creating the construction compound (Works 5C).
- 3.4.2 The temporary construction compound (5C) will be located in the southern corner of the SANG. It serves installation of the pipeline within the SANG and for installation in St Catherines Road to the south only, thereby minimizing the use of the SANG as far as practicable to limit any potential impacts, including temporary land take for storage of vehicles, pipe and material, etc.
- 3.4.3 Outside the root protection areas (RPA), topsoil in the construction compound area will be stripped and neatly stored to one side of the construction compound, which will provide additional noise and visual screening of the construction compound for users of the SANG. The area of the construction compound will then be covered with a permeable surface. (There will be no stripping or storage of topsoil within RPAs.)
- 3.4.4 The construction compound will be fenced with a 2m high Heras perimeter fence that is bolted together and placed on rubber weighted feet for stability. Acoustic material will be applied to the fencing to limit the impact of noise pollution on the tranquillity of the SANG.
- 3.4.5 The public facing façade of the fencing will be in accordance with Surrey Heath Borough Council's design/requirements and will include project information and safety notices. Fencing material will be selected to reduce the visual impact on the SANG, maintaining reduced visibility of the compound area.
- 3.4.6 Lighting will be installed, facing down and away from receptors, and only used while the compound is occupied during the working day, with the exception of security lighting. The compound will be fully secure, with locked gates and on-site, 24-hour security team and CCTV.



- 3.4.7 Construction access will be via the temporary construction compound, which is entered directly off St Catherines Road access 9D. When works are undertaken in St Catherines Road, the road will be closed to traffic approximately from the construction compound entrance to a point beyond the location of Balmoral Drive.

3.5 Open Cut Installation

- 3.5.1 The Open Cut (generic) installation approach described in the CoCP will be tailored to the conditions of the SANG to reduce the amount of vegetation and tree clearance required. Details on how this will be applied at this location are summarised below.
- 3.5.2 Open Cut installation will take place along approximately 160m of the eastern boundary of the SANG.
- 3.5.3 The construction of the pipeline through St Catherines SANG will likely commence from the northeastern corner, heading in a southerly direction within a narrow working width towards the construction compound.
- 3.5.4 There is a narrow working commitment (NW20) reducing the working width to a maximum of 15m, which covers the total length of Open Cut installation within St Catherines SANG. A 15m wide fencing/barrier system, will be erected within the Order Limits – this is to segregate the 'live' working area from publicly accessible areas. As the works progress, the fenced area will be relocated/extended so that no more than 50m of continuous fencing is in place before a public crossing point.
- 3.5.5 The vegetation clearance works (undertaken by a specialist) will be undertaken for the full length of the Open Cut section in 50m lengths of working area at any one time. This work will be completed before the construction fencing is erected. During vegetation clearance, warning signage to indicate restricted zones will be erected to alert the public to the works. All material will be removed and recycled.
- 3.5.6 The SANG is on the boundary of Frith Hill woodland, and the edge is populated with mature trees which will be retained.
- 3.5.7 Trees being retained will be protected from installation activity in line with commitment G95: *'The contractor(s) will apply the relevant protective principles set out in the British Standard BS5837:2012 - Trees in Relation to Design Demolition and Construction. This will be applied to trees within the Order Limits which will be preserved through the construction phase, and to trees outside of the Order Limits where such measures do not hinder or prevent the use of the relevant working width for construction.'*
- 3.5.8 The project Environmental Clerk of Works and arboriculturalist will monitor and provide advice when any works to trees, such as branch removal or pruning, is required. Hand digging and air lance techniques or similar British Standard-approved techniques will be utilised when excavating within the RPA.
- 3.5.9 Acoustic material will be applied to the fencing to limit the impact of noise pollution on the tranquillity of the SANG.



- 3.5.10 Fencing material will be selected to reduce the visual impact on the SANG, maintaining low visibility of the working area.
- 3.5.11 Warning signage to indicate restricted zones will be erected to alert the public to the works.
- 3.5.12 Size of plant (vehicles and machinery) will be smaller than traditional Open Cut plant. This is necessary to work safely within the reduced 15m working width.
- 3.5.13 All fabrication works (such as grinding, welding, coating and testing) will be undertaken behind screens or within shelters in order to reduce any impact on the users of the SANG. These screens will include acoustic protection if required.
- 3.5.14 The existing footpaths are in good condition. These footpaths cross the intended working area. As such, a gate system, similar to those used for Public Rights of Way, will be implemented with the priority given to pedestrians. A shortened circular path will be maintained for the duration of the works and access will be possible into the neighbouring Frith Hill.
- 3.5.15 Size of plant (vehicles and machinery) will be smaller than traditional Open Cut plant. This is necessary to work safely within the reduced 15m working width.
- 3.5.16 Excavated topsoil and subsoil will be stored adjacent to the work area in linear lengths.
- 3.5.17 The intended alignment of the working area is presented in the drawing in Appendix A.

3.6 Reinstatement

Vegetation

- 3.6.1 Where the topsoil has been stripped and stored, this will then be replaced after the works have been completed and either reseeded or left to naturally regenerate, following discussion with Surrey Heath Borough Council.
- 3.6.2 The reinstatement plan will be included within Appendix B of the Landscape and Ecological Management Plan (LEMP) for the approval of the relevant planning authority as per Requirement 8(1)(b) and Requirement 12 of the DCO.
- 3.6.3 The vegetation reinstatement will be subject to a five-year aftercare period.
- 3.6.4 Drawings of vegetation reinstatement can be found in Appendix B.
- 3.6.5 Note: This document does not cover activities offered by Esso as part of its voluntary Environmental Investment Programme.

Undesignated Paths

- 3.6.6 The circular walk around the SANG will be reinstated to previous condition throughout.



- 3.6.7 Footpaths crossed by the working area will be reinstated once the Open Cut works are complete. Like-for-like footpath surfacing will be used for reinstatement, unless otherwise agreed between Esso and Surrey Heath Borough Council.
- 3.6.8 All construction activities within the SANG will be fully demobilised within the two-year period and reinstatement completed with all protective fencing removed unless otherwise agreed with Surrey Heath Borough Council.



Appendix A – Area Plan



- Legend**
- Order Limits
 - Suitable Alternative Natural Greenspace (SANG) (area covered by this site specific plan)
 - Existing aviation pipeline and multifuel lines
 - Bridleway
 - Undesignated path
 - Statutory services line

0	30/01/2020	For Issue	LM	BM	BM	PG
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd

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Drawing title
**SITE SPECIFIC PLAN
 ST CATHERINES**

Drawing Status	For Issue	
Scale	1:2,100 @ A3	DO NOT SCALE
Jacobs No.	B2325300	
ProjectWise No.		
Drawing number	Sheet 1 of 1	Rev 0

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Appendix B – Construction and Reinstatement Plans

NOTES

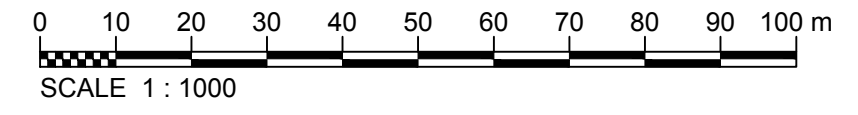
1. Pipeline centreline alignment is intended only.
2. Trees to be retained are shown based on the intended pipeline alignment.
3. The illustration of existing trees on these plans is based on project survey data.
4. The contractor(s) would retain vegetation where practicable and in accordance with, as a minimum, the vegetation retention drawings (Commitment G91).
5. Where notable, TPO, Ancient Woodland and Veteran Trees would be retained within or immediately adjacent to the Order Limits, the trees and their root protection areas would be protected where they extend within the Order Limits and are at risk. This would be by means of fencing or other measures (Commitment G65).
6. Further information regarding mitigation for Veteran Trees is set out in the Approach to Ancient Woodland and Veteran Trees (LEMP Appendix).
7. The contractor(s) would apply the relevant protective principles set out in British Standard 5837:2012 Trees in relation to design, demolition and construction. This would be applied to trees within the Order Limits which would be preserved through the construction phase, and to trees outside of the Order Limits where such measures do not hinder or prevent the use of the relevant working width for construction. (Commitment G95).
8. Works to notable, TPO and Veteran Trees, where at risk of damage, would be supervised by the ECoW (Environmental Clerk of Works) and supported by an experienced arboriculturalist (Commitment G86).
9. Appropriate techniques would be used for the removal, storage and transplantation of any vegetation which is to be reused, relocated or transplanted (Commitment G89).
10. The existing footpaths shown on this drawing are based on a combination of Ordnance Survey map data February 2019 and a topographic survey undertaken in 2020.



LOCATION PLAN
SCALE 1:500,000

LEGEND

- ORDER LIMITS
 - INTENDED PIPELINE CENTRELINE
 - NARROW WORKING AREA (NW20)
 - COMPOUND
- EXISTING CONTEXT**
- SANG BOUNDARY
 - SANG FOOTPATHS
 - TREE PRESERVATION ORDER (TPO)
- EXISTING FEATURES TO BE RETAINED**
- WOODLAND TO BE RETAINED
 - AMENITY GRASS WITH AREAS OF SCRUB/TREES TO BE RETAINED
- EXISTING FEATURES TO BE REMOVED**
- WOODLAND TO BE POSSIBLY REMOVED OR PRUNED
 - AMENITY GRASS WITH AREAS OF SCRUB/TREES TO BE REMOVED



P01.2	04/03/20	DEADLINE 6 SUBMISSION				
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd



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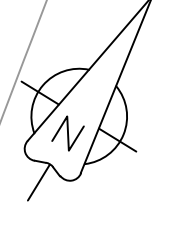
8.61 SSP ST CATHERINE'S SANG: CONSTRUCTION STAGE

Drawing status	Fit for Stage Approval	
Scale	1:1000	DO NOT SCALE
Jacobs No.	B2325300	Rev P01.2
Drawing number	B2325300-JAC-000-ENV-DRG-111164	

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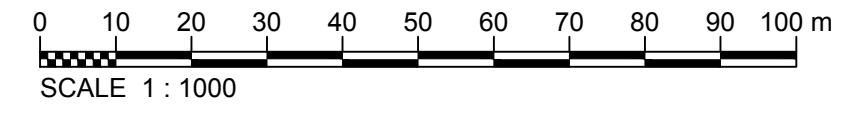
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- NOTES**
- Existing features to be retained are based on the current intended pipeline alignment.
 - Reinstatement proposals are shown indicatively only and will be refined in conjunction with the detailed design of pipeline alignment, for inclusion with the final Landscape and Ecology Management Plan.



LOCATION PLAN
SCALE 1:500,000

- LEGEND**
- ORDER LIMITS
 - INTENDED PIPELINE CENTRELINE
- EXISTING CONTEXT**
- SANG BOUNDARY
 - SANG FOOTPATHS
 - TREE PRESERVATION ORDER (TPO)
- EXISTING FEATURES TO BE RETAINED**
- WOODLAND TO BE RETAINED
 - AMENITY GRASS WITH AREAS OF SCRUB/TREES TO BE RETAINED
- FEATURES TO BE REINSTATED**
- SOFT LANDSCAPE**
- WOODLAND REINSTATEMENT IF REQUIRED
 - AMENITY GRASS WITH SCRUB AND TREE PLANTING REINSTATEMENT
- HARD LANDSCAPE**
- FOOTPATH REINSTATEMENT WHERE REQUIRED



P01.2	04/03/20	DEADLINE 6 SUBMISSION				
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd



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Drawing title
**8.61 SSP ST CATHERINE'S SANG:
REINSTATEMENT**

Drawing status: **Fit for Stage Approval**

Scale	1:1000	DO NOT SCALE
Jacobs No.	B2325300	Rev
Client no.		P01.2

Drawing number
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