

Vegetation Clearing and Fauna Management Plan

Vegetation Clearing - Notes

INTRODUCTION

The *Environmental Management Division* of the **Saunders Havill Group** was engaged by **PEET Flagstone City** to prepare a *Vegetation Clearing & Fauna Management Plan (VCFMP)* for the removal of vegetation to facilitate construction of a basin within Lot 905 on SP216472 to ultimately meet water treatment requirements for Stage 7 of the Flagstone East development.

The purpose of this VCFMP is to manage the vegetation removal process and protection for fauna species during Stage 7 Basin works as required for an Operation Works application to **Economic Development Queensland** under the Greater Flagstone Urban Development Area Development Scheme. The clearing works will follow the general principal for vegetation clearing documented on this sheet and *Sheet 3*.

To better allocate a tree retention and removal status, Ecologists from the **Saunders Havill Group** completed a Stadia-metric tree survey using Trimble Antenna based GPS units. The survey collected the following data on trees within and adjoining the earthworks extent as provided by the project engineer:

- Reference Point and Location
- Botanical Name / Common Name
- Trunk DBH
- AS4970-2009 – Tree Protection Zone
- Height and Spread
- Canopy and Trunk Condition Comments
- Fauna and Habitat Values and Details

CLEARING PHASES AND PROCESS

The following stages are required for clearing to be undertaken on this property and a copy of this *VCFMP* must be present with the clearing contractor on-site:

PHASE 1 - Tree Protection Fencing to be installed prior to the commencement of any clearing works on the site. Tree protection fencing is to be located at or beyond 12 x diameter at breast height (DBH) unless approved by an appointed Arborist around trees designated for retention or as per the locations shown in this drawing package (refer Fencing Note).

PHASE 2 - Pre-start Meeting

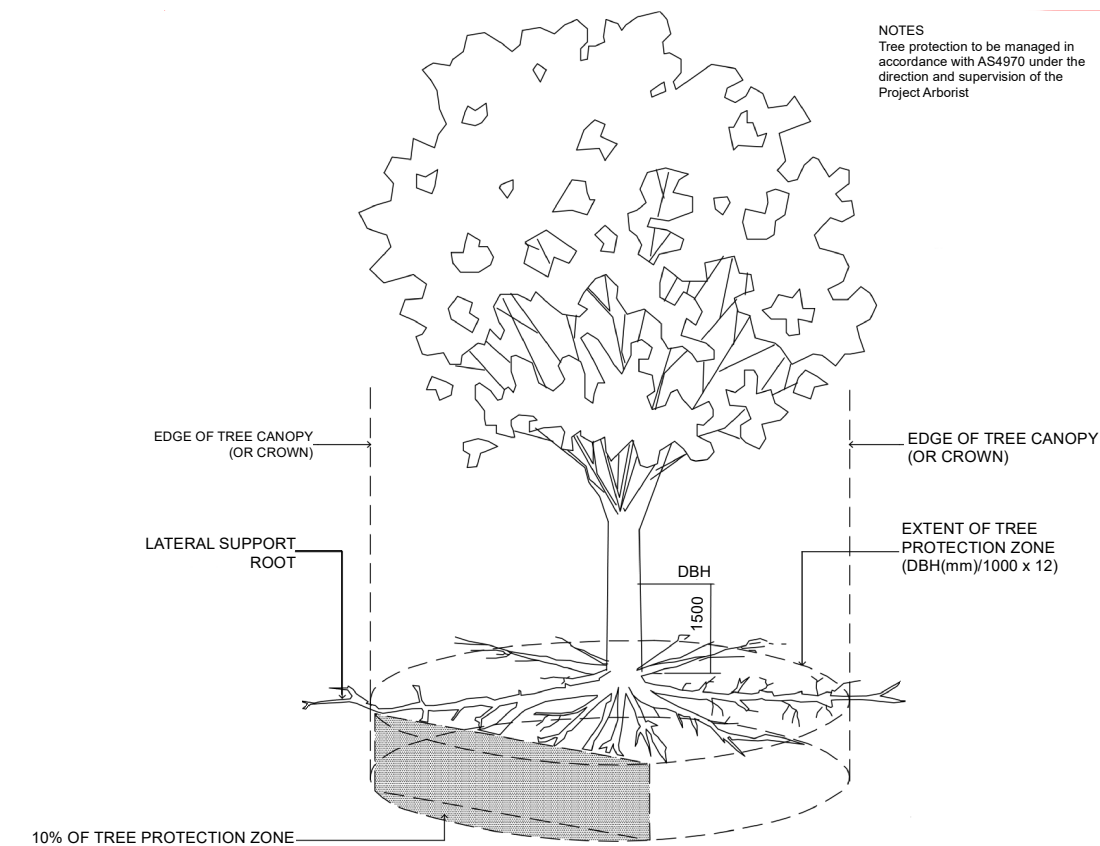
Fencing shall be in place at the time of the official pre-start meeting for inspection by Agency Officers.

PHASE 3 - Fauna Inspections and Management

Undertake necessary fauna management requirements prior to clearing works – *Refer Fauna Management Specifications on Sheet 3*.

PHASE 4 - Undertake Clearing

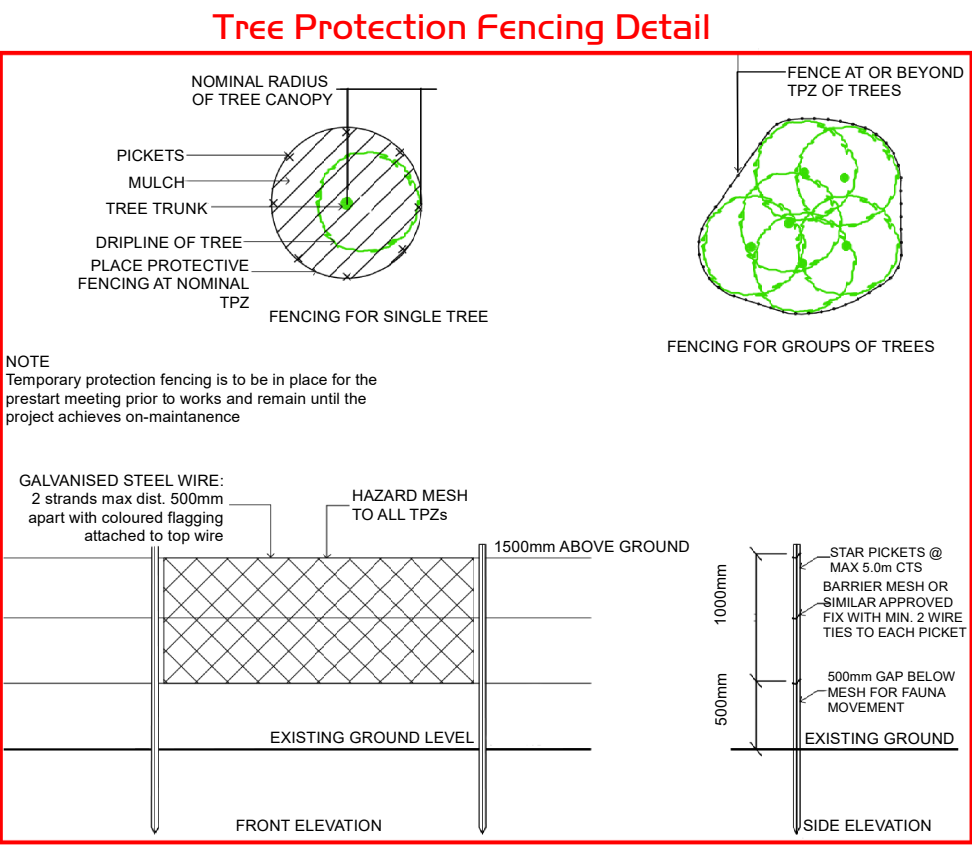
Undertake removal of vegetation once approved for removal by qualified fauna spotter. Clearing will occur in the direction outlined in this *VCFMP* and managed by the appointed fauna spotter to allow all fauna unimpeded movement away from works areas north into Sandy Creek. The contractor is to follow tree felling directions of any third party (i.e. fauna spotter/project Arborist) on site and stockpile selected material for re-use following completion of contract.



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2018/940

Date: 23 July 2018



DISCLAIMER:

THESE PLANS HAVE BEEN PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT. SAUNDERS HAVILL GROUP CANNOT ACCEPT RESPONSIBILITY FOR ANY USE OF OR RELIANCE UPON THE CONTENTS OF THESE DRAWINGS BY ANY THIRD PARTY.

CONFIRM ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION AND DO NOT SCALE FROM THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETRES. ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH SAUNDERS HAVILL GROUP PRIOR TO THE COMMENCEMENT OF WORK.

PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES.

REFERENCES:

AMENDMENTS:			
Issue	Date	Description	Checked
A	31/03/2017	Client Draft	AD
B	27/02/2018	Basin Update	AD

CLIENT:
PEET Limited

PROJECT:
**Flagstone City
Stage 7 (Basin Works)**

environmental management

PLAN OF:
Vegetation Clearing & Fauna Management Plan

DATE: 27/02/2018

CHECKED: AD

CLIENT REF: 8418

DRAWN: TC

DRAWING No.: 8418 E 02 S7B VCFMP B

Vegetation Clearing and Fauna Management Plan

Fauna Management - Notes

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INTRODUCTION

The Fauna Management specifications on this *VCFMP* are designed to protect native animals and control/manage impacts during clearing activities for the Stage 7 basin works. The fauna management specifications and principles incorporated in this *VCFMP* applies generically to all native animals, focus on avoiding conflicts, and incorporating measures to minimize disturbance. Compliance with this section of the *VCFMP* is compulsory and incorporates the use of expert consultants including a Fauna Spotter (holding a valid Wildlife Rehabilitation Permit issued by the **Department of Environment and Heritage Protection**).

FAUNA IMPACTS

Clearing of vegetation provides an obvious source of impact to existing habitat and animal safety. More specifically the existing vegetation provides habitat, movement and protection opportunities for some fauna through both regrowth and canopy trees. These opportunities are to be altered during and post site clearing works.

CLEARING IMPACTS

- Direct removal of site vegetation
- Loss of habitat
- Noise, vibration and dust
- Erosion and sedimentation
- Threats associated with open cuts etc. and fauna entrapment

Fauna Management Schedule

1.0 PRE CLEARING				
Ref:	Management Item	Responsibility	Timing	Reporting
1.1	TEMPORARY FENCING Prior to the commencement of works and to be inspected by EDQ or the site Environmental Coordinator AS 9470 Temporary Protection Fencing shall be installed around the 'Tree Protection Zone' designated for retention around the basin works area (as per <i>detail sheets</i>). ▪ Fencing shall be fauna friendly ▪ No clearing, stockpiling, site access, earthworks, storage, etc. is to occur within the temporary protection fencing. ▪ Only approved weed management works to occur within the temporary protection fencing ▪ Fencing to be reinstated immediately if damaged or knocked down, any damage to retained trees to be immediately reported to Project Arborist. ▪ Fencing to remain until the completion of all site bulk earthworks.	SITE SUPERVISOR	Prior to the commencement of construction	Inspected by EDQ or the Environmental Site Coordinator
1.2	CONTRACTOR EDUCATION & AWARENESS All site contractors and subcontractors will be made aware of their responsibilities to protect native fauna. The Fauna Management notes on this VCFMP is provided as a working document to assist on-site management and protection of native animals. This generally will form part of education and training on a broader work place health and safety but as a minimum will include: ▪ Copy of VCFMP kept on-site (Site Office). ▪ General education and awareness notification of contractors and sub-contractors involved in activities potentially impacting native animals as part of site induction – contractors must know the location of the VCFMP, key phone numbers and who to report to if they breach the VCFMP. ▪ A list of relevant contact phone numbers as listed on these drawings is kept in a visible and accessible location in the site office	SITE SUPERVISOR / THE PROPONENT	Prior to the commencement of construction and as part of the site induction for new staff and sub-contractors	SITE SUPERVISOR
2.0 VEGETATION CLEARING				
2.1	SPOTTER / RELOCATOR Immediately prior to the commencement of clearing of native vegetation a daily visual inspection of the area must be carried out by the fauna spotter-catcher. Furthermore, the fauna spotter-catcher is to be present on site during all clearing operations to supervise and direct clearing works, and to respond to any situations that may arise in relation to fauna. In the event of an animal being located, an area of 5m radius should be established around the tree excluding machinery from the area until the animal has relocated (usually overnight). If an animal requires relocating this must be undertaken by a suitable qualified fauna expert recognized by the Department of Environment & Heritage . For some fauna a permit will be required. If vegetation is left stockpiled overnight, the Fauna Spotter-Catcher must inspect the vegetation prior to chipping or removal from site. Any native fauna orphaned or injured by the development process must be reported to the Department of Environment & Heritage (1300 130 372) or RSPCA (1300 264 625). The Site Supervisor is responsible for the safe management of site fauna and implementation of these specific fauna requirements SPECIFIC KOALA MANAGEMENT NOTES A Koala Spotter is a person who holds a tertiary qualification in Biology or Zoology, or who is demonstrably experienced in the identification and location of Koalas in their natural habitat. For example, a koala keeper employed by a licensed Wildlife exhibitor (i.e. a zoo) may be capable of demonstrating competence in locating Koala's. Prior to the commencement and during felling operations, it is the responsibility of the Koala spotter to be present at the site of felling operations identify any tree at the site within which a Koala is present, as well as any tree that has a crown which is intermeshed or overlapping with such a tree; and advise the person who is authorised to conduct the felling operation, or that persons' representative, of the precise location of each such tree Management Item. CLEARING PATTERN / FAUNA FLUSHING Clearing occurs once fauna spotter-catcher gives sign off the site is clear of significant native species. The intended clearing direction is towards Sandy Creek, north of the proposed works and is to occur as per the direction of the fauna spotter/catcher. At the completion of operational works, and prior to the sealing of survey plans for the relevant stage, the Fauna Spotter-Catcher must provide certification to the EDQ officer that all works were undertaken in accordance with these fauna management requirements.	SITE SUPERVISOR	Prior to the commencement of construction	Inspected by EDQ or the Environmental Site Coordinator



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