

DRAWING REGISTER

DRAWING NUMBER	SHEET NAME	REV. No.	REV. DATE
13531.5 CC L101	site plan	I	12/11/21
13531.5 CC L102	detail plans	D	15/9/21
13531.5 CC L201	planting detail	I	15/11/21
13531.5 CC L301	general specification	H	8/12/21
13531.5 CC L302	maintenance specification	F	8/12/21
13531.5 CC L303	maintenance program	G	8/12/21
13531.5 CC L304	conditions	B	8/12/21

landscape documentation

WYALONG SOLAR PHOTOVOLTAIC FARM

Mytilineos EGN.
NEWELL HIGHWAY, WYALONG



site plan | L101

Wyalong Solar Farm

Legend

- SITE BOUNDARY
- LOT BOUNDARY
- 1km OFFSET
- 10m OFFSET
- CONTOURS (1m)
- GRAVEL ROAD
- HIGHWAY
- ESSENTIAL ENERGY EASEMENT
- TRANSMISSION LINES
- EXISTING FENCE
- NEW SITE FENCE by others
- NEW STOCK FENCE by others
- MV CABLES by others
- SITE ACCESS ROAD by others
- PV PANELS by others
- EXISTING WATER BODY
- EXISTING VEGETATION to be retained and managed
- EXISTING VEGETATION to be removed
- VEGETATION BUFFER (B1) refer to planting plan
- VEGETATION BUFFER (B2) refer to planting plan
- PASTURE MIX (P1) refer to planting plan
- EXISTING BUILDINGS indicative
- UNDERGROUND CABLES indicative
- R5 SENSITIVE RECEIVER indicative

REV	DATE	COMMENTS
I	12/11/21	REVISED

PROJECT:
Wyalong Solar Farm

SITE:
Newell Highway, Wyalong NSW

CLIENT:
Mytilineos EGN

13531.5 - Wyalong Solar Farm Lvxw 8/12/21

DRAWN: AL / PW DATE: 06.04.21 SCALE: @A3

JOB NUMBER: PHASE: DWG No: REV:
13531.5 CC L101 I

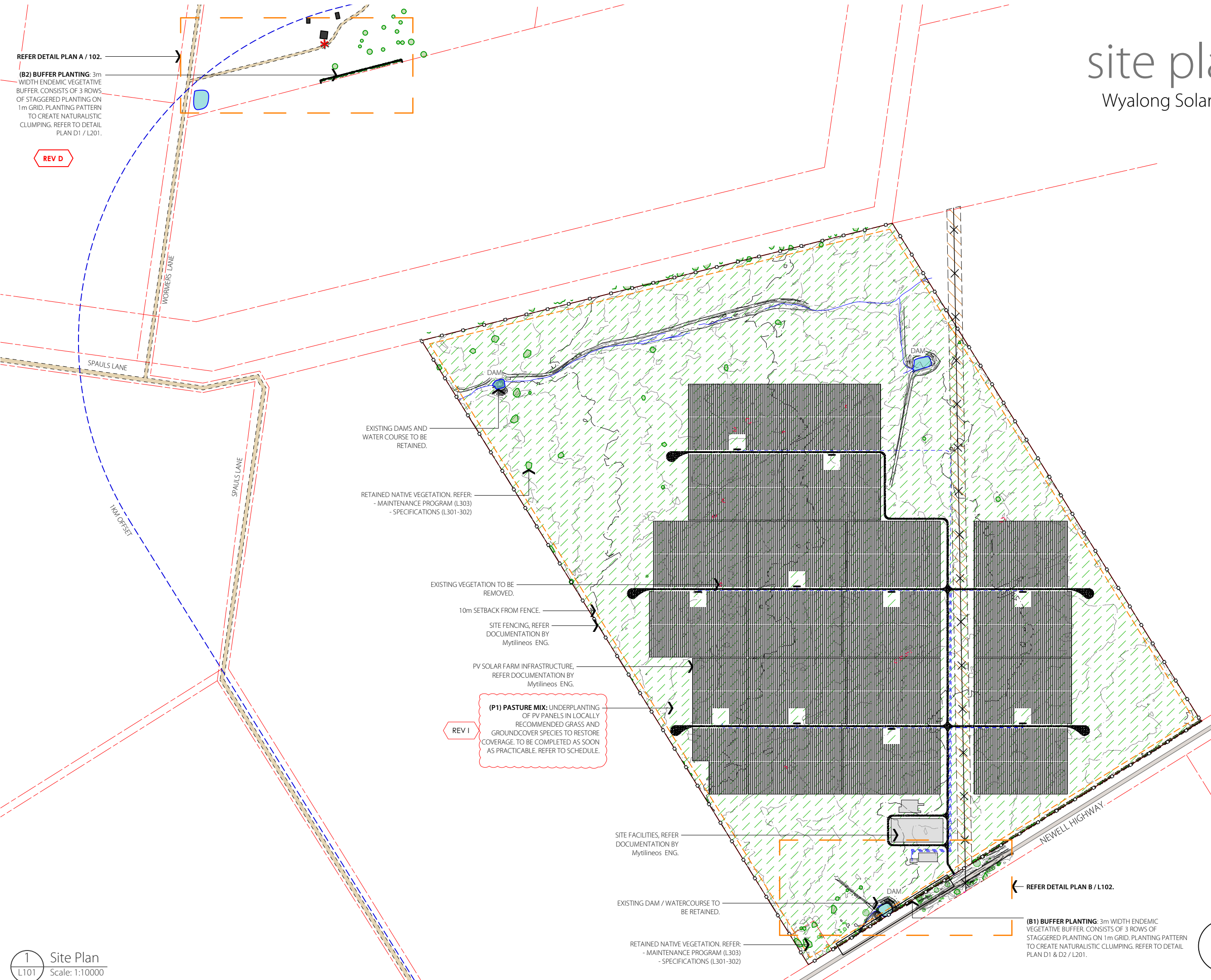


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REFER DETAIL PLAN A / 102.

(B2) BUFFER PLANTING: 3m WIDTH ENDEMIC VEGETATIVE BUFFER. CONSISTS OF 3 ROWS OF STAGGERED PLANTING ON 1m GRID. PLANTING PATTERN TO CREATE NATURALISTIC CLUMPING. REFER TO DETAIL PLAN D1 / L201.

REV D



EXISTING DAMS AND WATER COURSE TO BE RETAINED.

RETAINED NATIVE VEGETATION. REFER:
- MAINTENANCE PROGRAM (L303)
- SPECIFICATIONS (L301-302)

EXISTING VEGETATION TO BE REMOVED.

10m SETBACK FROM FENCE.

SITE FENCING, REFER DOCUMENTATION BY Mytilineos ENG.

PV SOLAR FARM INFRASTRUCTURE, REFER DOCUMENTATION BY Mytilineos ENG.

(P1) PASTURE MIX: UNDERPLANTING OF PV PANELS IN LOCALLY RECOMMENDED GRASS AND GROUND COVER SPECIES TO RESTORE COVERAGE. TO BE COMPLETED AS SOON AS PRACTICABLE. REFER TO SCHEDULE.

REV I

SITE FACILITIES, REFER DOCUMENTATION BY Mytilineos ENG.

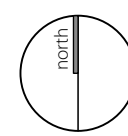
EXISTING DAM / WATERCOURSE TO BE RETAINED.

RETAINED NATIVE VEGETATION. REFER:
- MAINTENANCE PROGRAM (L303)
- SPECIFICATIONS (L301-302)

REFER DETAIL PLAN B / L102.

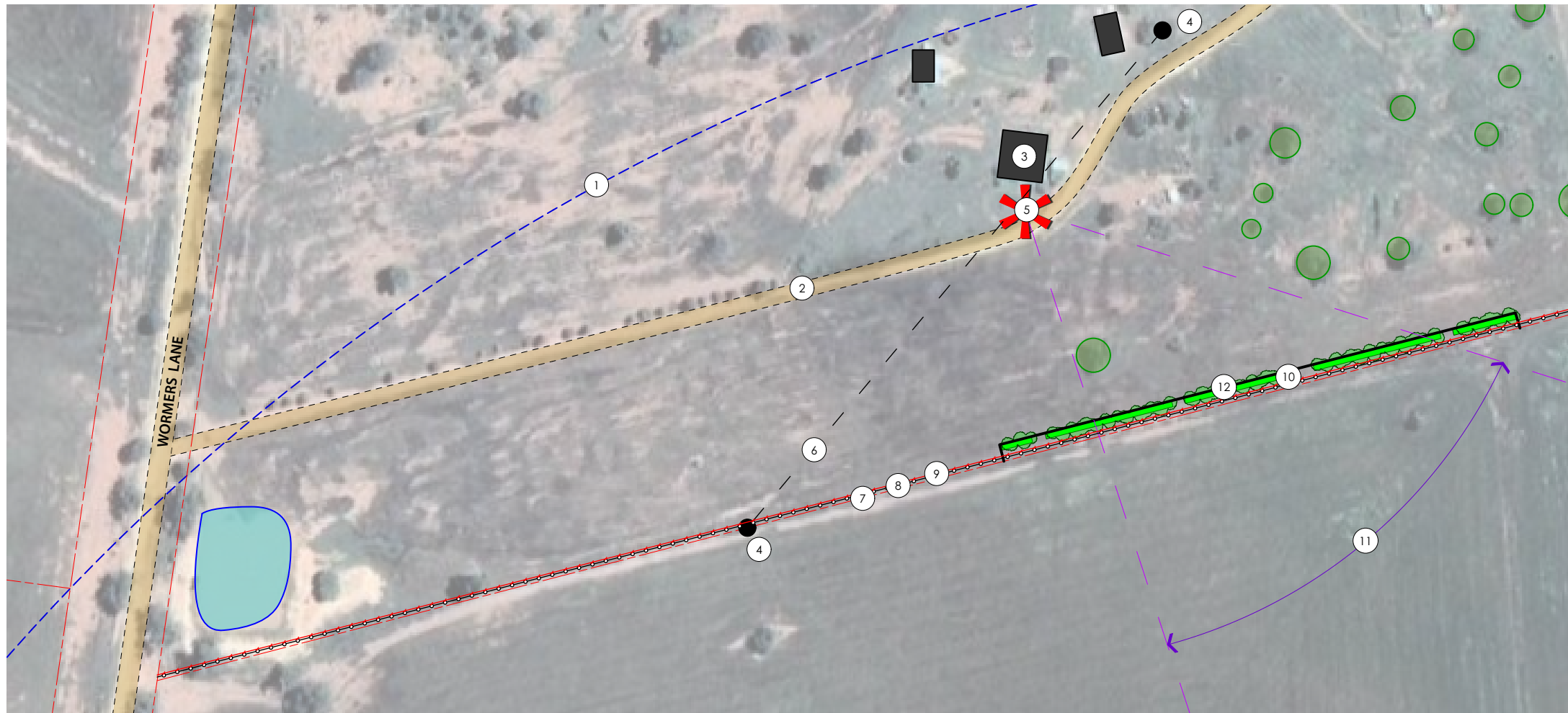
(B1) BUFFER PLANTING: 3m WIDTH ENDEMIC VEGETATIVE BUFFER. CONSISTS OF 3 ROWS OF STAGGERED PLANTING ON 1m GRID. PLANTING PATTERN TO CREATE NATURALISTIC CLUMPING. REFER TO DETAIL PLAN D1 & D2 / L201.

1 Site Plan
L101 Scale: 1:10000

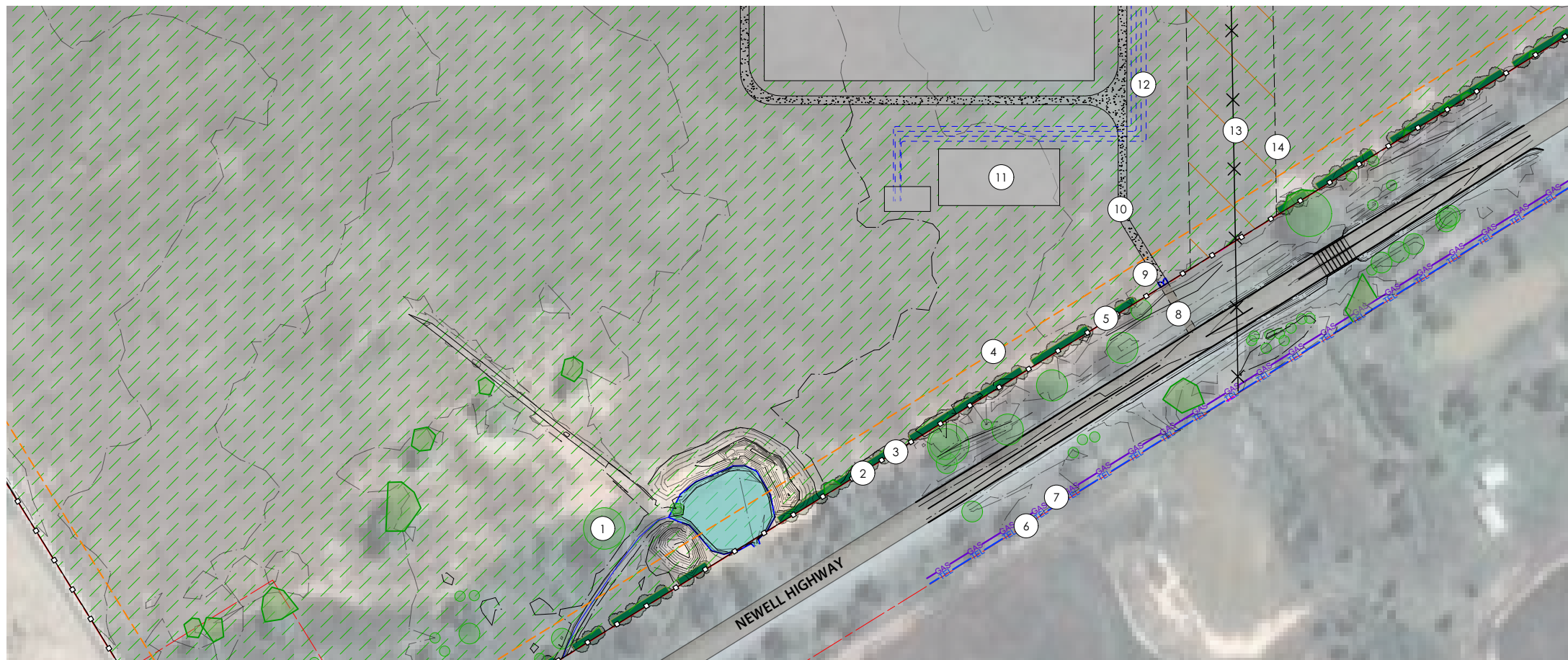


detail plans | L102

Wyalong Solar Farm



A Detail plan A
L102 Scale: 1:2500



B Detail plan B
L102 Scale: 1:2500

Detail plan A

- 1 1km SITE OFFSET
- 2 DRIVEWAY
- 3 NEIGHBOURING RESIDENCE (INDICATIVE)
- 4 INDICATIVE LOCATION OF ESSENTIAL ENERGY POLE
- 5 R5 SENSITIVE RECEIVER APPROXIMATE LOCATION
- 6 ASSUMED LOCATION OF UNDERGROUND ENERGY CABLE. (INDICATIVE). TO BE CONFIRMED PRIOR TO ANY PLANTING / EXCAVATION.
- 7 LOT BOUNDARY
- 8 EXISTING BOUNDARY FENCE, INDICATIVE LOCATION
- 9 ASSUMED LOCATION OF UNDERGROUND NATIONAL PHONE CABLE IN LINE WITH FENCE (INDICATIVE). TO BE CONFIRMED PRIOR TO ANY PLANTING / EXCAVATION.
- 10 (B2) BUFFER PLANTING: REFER TO DETAILS / MATRIX & SCHEDULE
- 11 VIEW OF SITE EXTENTS
- 12 NEW POST AND MESH STOCK FENCE TO PROTECT PLANTING BUFFER. APPROX. 260m. LIASE WITH OWNER FOR FINAL DESIGN AND EXTENTS.

Legend

- SITE BOUNDARY
- LOT BOUNDARY
- 1km OFFSET
- 10m OFFSET
- CONTOURS (1m)
- GRAVEL ROAD
- HIGHWAY
- ESSENTIAL ENERGY EASEMENT
- TRANSMISSION LINES
- EXISTING FENCE
- NEW SITE FENCE by others
- NEW STOCK FENCE by others
- MV CABLES by others
- SITE ACCESS ROAD by others
- PV PANELS by others
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- PASTURE MIX (P1) refer to planting plan
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- UNDERGROUND CABLES indicative
- R5 SENSITIVE RECEIVER indicative

NOTE: PLAN PREPARED WITHOUT SURVEY. ALL SERVICES TO BE CONFIRMED AND DIAL-BEFORE-YOU-DIG REQUESTS SUBMITTED PRIOR TO ANY PLANTING / EXCAVATION.

Detail plan B

- 1 EXISTING VEGETATION
- 2 FENCE, BY OTHERS
- 3 BOUNDARY
- 4 10m INTERNAL SITE OFFSET
- 5 (B1) BUFFER PLANTING: REFER TO DETAILS / MATRIX & SCHEDULE.
- 6 EXISTING TELSTRA LINE
- 7 EXISTING GAS LINE
- 8 INDICATIVE ENTRY ROAD, BY OTHERS.
- 9 ACCESS GATE, BY OTHERS.
- 10 SITE ROAD, BY OTHERS.
- 11 SITE BUILDINGS / INFRASTRUCTURE
- 12 MV CABLES, BY OTHERS
- 13 EXISTING TRANSMISSION LINES
- 14 TRANSMISSION LINE EASEMENT

NOTE: FOLLOWING INSTALLATION OF PV SOLAR FARM INFRASTRUCTURE MONITORING OF GLARE FROM NEWELL HIGHWAY IS TO BE UNDERTAKEN. SHOULD MITIGATION MEASURES BE REQUIRED A TEMPORARY SCREENING BARRIER IS TO BE INSTALLED WITHIN THE PROPERTY.

REV C

D	15/9/21	REVISED
REV	DATE	COMMENTS

PROJECT:
Wyalong Solar Farm

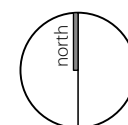
SITE:
Newell Highway, Wyalong NSW

CLIENT:
Mytilineos EGN

13531.5 - Wyalong Solar Farm L102 8/12/21

DRAWN: AL / PW DATE: 06.04.21 SCALE: @A3

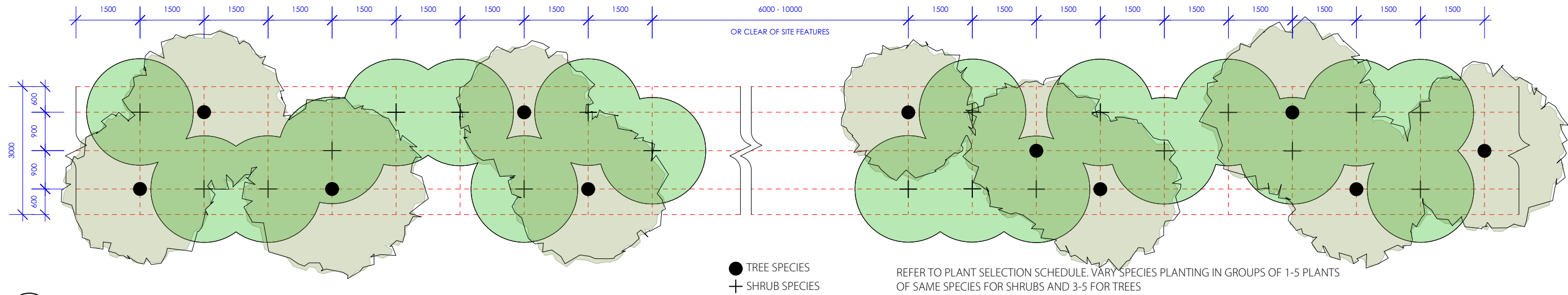
JOB NUMBER: PHASE: DWG No: REV:
13531.5 CC L102 D



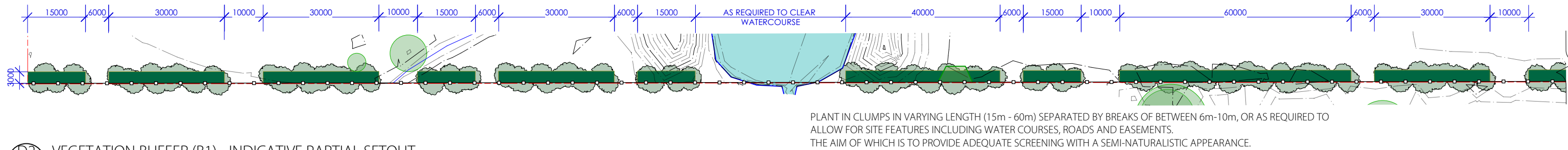
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planting detail | L201

Wyalong Solar Farm



D1 VEGETATION BUFFER (B1) & (B2) - INDICATIVE LAYOUT
L201 Scale: 1:100



D2 VEGETATION BUFFER (B1) - INDICATIVE PARTIAL SETOUT
L201 Scale: 1:1000

NOTES

REV I

- Landscaping of vegetation buffers to be undertaken prior to commencing operations.
- Planting species must not overshadow solar panels. Proposed planting species will be largely comprised of dominant species already found on site, and supplementary planting from a selection of endemic species.
- All environmental weeds found on site to be removed prior to landscape install, particularly those listed under the NSW Biosecurity Act 2016.
- Solar panels are to have pastoral grass surrounding and growing underneath, and be maintained through slashing or grazing.
- Pastoral grass mix is to be based upon Department of Primary Industries nominated mixes for the West Wyalong District. Although the site lies slightly outside of this District, the pasture mix is considered to be appropriate due to the proximity and similar nature of the landscape in this area.

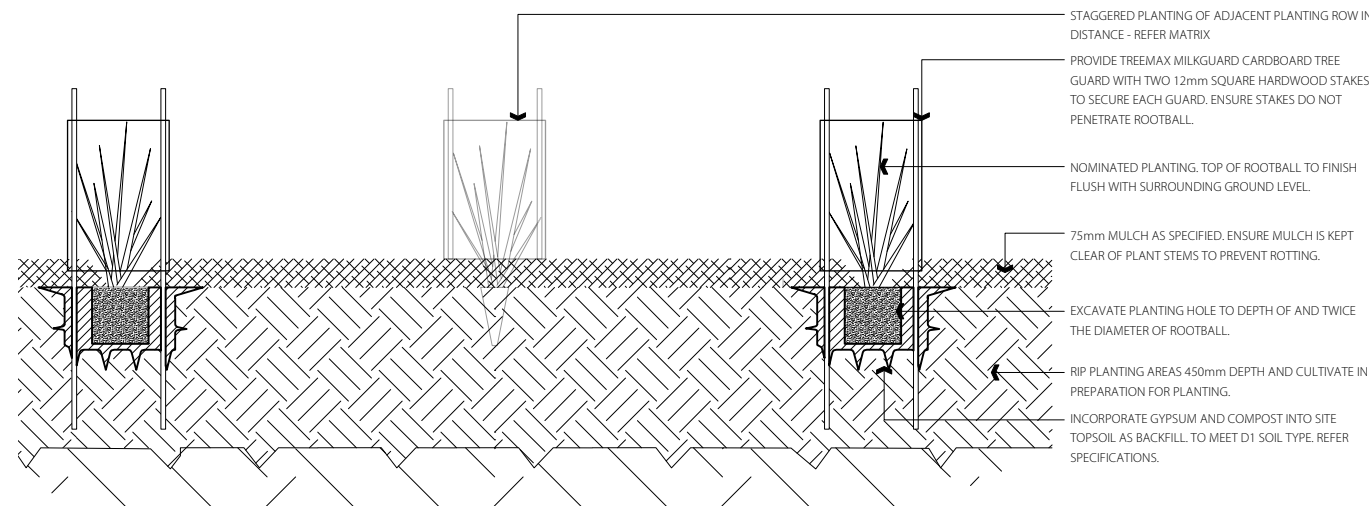
VEGETATION BUFFER (B1) - PLANT SCHEDULE			
All trees supplied are to comply with AS 2303 Tree stock for landscape use - 2018			
BOTANICAL NAME	COMMON NAME	HEIGHT	POT SIZE
TREES			
<i>Acacia pendula</i>	Weeping Myall	5-13m	150mm
<i>Casuarina cristata</i>	Belah	10m	150mm
<i>Callitris glaucophylla</i>	White Cypress	14m	150mm
<i>Eucalyptus behriana</i>	Bull Mallee	10m	150mm
<i>Eucalyptus sideroxylon</i>	Mugga Ironbark	15m	150mm
SHRUBS			
<i>Acacia oswaldii</i>	Umbrella Wattle	2m	150mm
<i>Acacia salicina</i>	Sally Wattle	5m	150mm
<i>Acacia trineura</i>	Three-nerve Wattle	5m	150mm
<i>Dodonaea viscosa</i>	Sticky Hop Bush	5m	150mm
<i>Eremophila mitchelli</i>	False Sandalwood	5m	150mm
<i>Geijera parvifolia</i>	Wilga	5m	150mm
<i>Melaleuca lanceolata</i>	Black Teatree	5m	150mm

VEGETATION BUFFER (B2) - PLANT SCHEDULE			
All trees supplied are to comply with AS 2303 Tree stock for landscape use - 2018			
BOTANICAL NAME	COMMON NAME	HEIGHT	POT SIZE
TREES			
<i>Acacia pendula</i>	Weeping Myall	5-13m	150mm
<i>Acacia homalophylla</i>	Yarran	6-10m	150mm
SHRUBS			
<i>Acacia oswaldii</i>	Umbrella Wattle	2m	150mm
<i>Acacia salicina</i>	Sally Wattle	5m	150mm
<i>Acacia trineura</i>	Three-nerve Wattle	5m	150mm
<i>Dodonaea viscosa</i>	Sticky Hop Bush	5m	150mm
<i>Eremophila mitchelli</i>	False Sandalwood	5m	150mm
<i>Geijera parvifolia</i>	Wilga	5m	150mm
<i>Melaleuca lanceolata</i>	Black Teatree	5m	150mm

This schedule shall be read in conjunction with the landscape plans. Refer to the written specification for further information. The contractor shall check the schedule with the quantities shown on the drawing. Quantities shown in the plant schedule shall take precedence over quantities shown on the drawing. Refer all discrepancies, should they exist, to the superintendent before planting works commences. Order plants as soon as the head contract for the works has been let. Do not make substitutions unless approved in writing.

PASTURE MIX (P1) - PLANT SCHEDULE	
Advice should be sought from relevant local knowledge regarding the best pasture mixture for usage of the site. Adjust species and quantities based on existing site conditions.	
Restore / maintain the ground cover of the site as soon as practicable (to meet Condition 9a & 9b).	
VARIETAL/ TRADE NAME	RATE
DPI West Wyalong Pasture Mixture 3: (Neutral red soils)	
Urana (or Dalkeith) sub clover	2 kg/ha
York (or Seaton Park) sub clover	3 kg/ha
Prolific Persian clover	1 kg/ha
Zulu Arrowleaf clover	1 kg/ha
Premier Daintgrass	1/2 kg/ha

REV H



D3 VEGETATION BUFFER PLANTING DETAIL
L201 Scale: 1:20

I 15/11/21 ADD. INFO.
REV DATE COMMENTS

PROJECT:
Wyalong Solar Farm

SITE:
Newell Highway, Wyalong NSW

CLIENT:
Mytilineos EGN

13531.5 - Wyalong Solar Farm Lvxw 8/12/21

DRAWN: AL / PW DATE: 06.04.21 SCALE: @A3

JOB NUMBER: 13531.5 CC L201 I PHASE: DWG No: REV:



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STANDARDS

REFERENCED DOCUMENTS:

AS 2303 Tree Stock for Landscape Use 2018
 AS 4454 Composts, Soil Conditioners and Mulches 2003
 AS 4373 Pruning of Amenity Trees - 2007
 AS 4970 Protection of Trees on Development Sites - 2009
 Soils for Landscape Development, Selection, Specification & Validation (Leake & Haege) - 2014

OTHER REFERENCED PROJECT DOCUMENTS

DEVELOPMENT CONSENT - APPLICATION NUMBER SSD 9564 - 07.05.2019

WYALONG SOLAR FARM VISUAL IMPACT ASSESSMENT 2, NOVEMBER 2018 (ACCENT ENVIRONMENTAL)

WORK NEAR TREES

PROTECTION: Protect trees to be retained from damage. Take necessary precautions. Do not store or otherwise place bulk materials and harmful materials under or near trees. Do not place spoil from excavations against tree trunks, even for short periods. Prevent damage to tree bark. Do not attach stays, guys and the like to trees. Avoid compaction of the ground under trees.

WORK UNDER TREES: Do not add or remove topsoil within the Tree Protection Zone (TPZ) or drip line (whichever is the greater). Use hand methods such that root systems are preserved intact and undamaged. Open up excavations under tree canopies for as short a period as possible. Ensure all cuts are clean using sharp and uncontaminated tools.

ROOTS: Where it is necessary to cut tree roots, use means such that the cutting does not unduly disturb the remaining root system.

DAMAGES: Any damage to trees to be retained will be attended to by a qualified arborist who will prepare a report covering rectification works. Submit report to supervisor for approval. Conduct remedial works as required including removal and replacement if so recommended. All costs to be borne by the contractor.

WEEDS

Eradicate weeds prior to start of construction works with follow-up treatments as required - inspect every two weeks. Use environmentally acceptable methods using manual methods and a non-residual Glyphosate herbicide at the manufacturer's recommended rates. Regularly remove, by hand, rubbish and weed growth that may occur or recur throughout grassed, planted and mulched areas. Continue eradication throughout the course of the works and during the Planting Establishment Period so that a weed free area is established at completion of the establishment period.

SETOUT AND DIMENSIONS

Critical design dimensions shall be obtained by the landscape contractor by survey before commencing work. Check engineers drawings to determine extent of earthworks, structures.

IRRIGATION

Landscape will primarily be passively irrigated, and plant species selected will have low water requirements. During install and establishment period, landscape will be irrigated via water truck.

MULCH

GENERALLY: Use mulch as scheduled which is free of deleterious and extraneous matter such as soil, weeds and sticks. Use organic mulches which are free of stones and comply with Australian Standards specifying less than 5% fines. Use first well rotted mulch chipped on site, chip to match ANL 'Forest Blend' 20-40mm mulch. Additional mulch to be made from 100% recycled Grade A green waste and waste wood equal to Australian Native Landscape's Forest Blend® (20-40mm).

APPLICATION: Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels.

SOILS

TESTING

Undertake soil tests on stockpiled soil designated for re-use, or imported organic soil, if requested and provide copies of test results to the Superintendent. Ameliorate as recommended in soil tests to bring soil up to the standards for horticultural grade organic soil to Australian Standards.

GENERAL: To Soils for Landscape Development, Selection, Specification and Validation, by Simone Leake and Elke Haege (2014).

SUBSOIL PREPARATION

CULTIVATION: Cultivate bases of planting holes and beds 150mm, do not use augers unless followed with cultivation of sides and base. Do not disturb services or tree roots; if necessary cultivate these areas by hand. Cultivate manually within 300 mm of paths or structures. Remove stones exceeding 25 mm, clods of earth exceeding 50 mm, and any weeds, rubbish or other deleterious material brought to the surface during cultivation. Trim the surface to the required design levels after cultivation.

SUBSOIL ADDITIVES

ADDITIVES: Apply required additives to stockpiled site topsoil as required by soil tests if scheduled in this specification.

GYPSSUM: Provide 150g/m.sq gypsum to base of all tree planting locations unless otherwise approved.

SOIL TYPE

NOTE: Refer Soils for Landscape Development, Selection, Specification and Validation, by Simone Leake and Elke Haege (2014) for soil testing requirements and minimum criteria.

Soil Type	Depth	Location
D1	Top 400mm	Mass Planting Soil: Low nutrient requirements

TECHNICAL PARAMETERS

Generally the soil must be free of "unwanted material" and must meet the requirements of the following tables.

All soil used in the project shall be in accordance with Soils for Landscape Development, Selection, Specification & Validation (Leake & Haege). Soil type shall be: D1

TASK ALLOCATION SCHEDULE

ROLE	RESPONSIBILITY	PRE-CONSTRUCTION	CONSTRUCTION	POST-CONSTRUCTION
Mytilineos Project team	<ul style="list-style-type: none"> Overall responsibility for the implementation and monitoring of the plan Revise this plan as required 	✓	✓	✓
Engineering, Procurement and Construction (EPC) Project Manager	<ul style="list-style-type: none"> Engage qualified personnel to undertake landscaping works (members of the LNA Master Landscapers Association of NSW & ACT or who are eligible to successfully obtain membership) Ensure that all operations on site are undertaken in compliance with this management plan Identify and organize review of this plan if necessary 	✓		
EPC Site Manager	<ul style="list-style-type: none"> Ensure that all operations on site are undertaken in compliance with this management plan Ensure all site personal have received the appropriate training for their responsibilities 		✓	
All EPC contractors and Sub-Contractors	<ul style="list-style-type: none"> Undertake work in accordance with this plan Ensure any potential or actual issues, including environmental incidents, are reported to the immediate supervisor 		✓	
Operations and Maintenance (O&M) site manager	<ul style="list-style-type: none"> Ensure that all operations on site are undertaken in compliance with this management plan Ensure maintenance of landscaping works is undertaken by suitably qualified persons Identify and organize review of this plan if necessary 			✓
O&M contractors	<ul style="list-style-type: none"> Undertake work in accordance with this plan Ensure any potential or actual issues, including environmental incidents, are reported to the immediate supervisor 			✓

H	8/12/21	ADD. INFO
REV	DATE	COMMENTS

PROJECT:
Wyalong Solar Farm

SITE:
Newell Highway, Wyalong NSW

CLIENT:
Mytilineos EGN

13531.5 - Wyalong Solar Farm Lvwex 8/12/21

DRAWN: AL / PW DATE: 06.04.21 SCALE: @A3

JOB NUMBER: PHASE: DWG No: REV:
13531.5 CC L301 H



maintenance specification

L302

Wyalong Solar Farm

SOFT LANDSCAPE MAINTENANCE

1.1 MAINTENANCE REQUIREMENTS

1.1.1 SERVICE OBJECTIVES

The objective is to meet the requirements of Condition 7 in Schedule 3 of the Development Consent: The Applicant must establish and maintain a mature vegetation buffer (landscape screening) as outlined in the figure in Appendix 1 to supplement the existing vegetation along the Newell Highway to the satisfaction of the Secretary.

The landscape screening must:

- (a) be planted prior to commencing operations;
- (b) be comprised of species that are endemic to the area;
- (c) within 3 years of commencing construction, effectively screen views of the solar panels and ancillary infrastructure on-site from the Newell Highway; and
- (d) be properly maintained with appropriate weed management.

1.1.2 DEFINITIONS:

- Contractor : The person, partnerships, corporation, or agency that will perform the landscape maintenance work.

- Debris : Remains of twigs, leaves and grass clippings following completion of mowing.

- Disease : Plant ailment caused by environmental conditions such as excessive humidity or prolonged rainfall.

- Excluded Damage : damage caused by vandalism, pedestrians, vehicles, animals (except insects and rodents), or other unusual factors. It does not include damage caused by the contractor's actions, lack of reasonable care, pest damage (such as insects), diseases, or plant loss due to lack of water caused by a sprinkler system breakage. Exceptions may be made if the Principal's authorised representative determines that unusual circumstances contributed to a loss.

- Garden Bed : Specific area planted out with trees, shrubs ground covers or perennial plant species.

- Herbicide : Chemical formulated to destroy or inhibit plant growth. May be selective or non-selective.

- Organic Fertiliser : Plant nutrient derived from plant residues and animal wastes.

- Inorganic Fertiliser : Synthetically developed plant nutrients.

- Litter : waste material including paper, plastic and glass deposited throughout contract area.

- Mulch : protective organic/inorganic ground covering material placed on garden beds to restrict weed infestation and maintain moisture and provide soil nutrients.

- Pavement : Constructed ground surface used for pedestrian or vehicular traffic.

- Pest : Undesirable insect species causing stress or decline in plant health.

- Pruning : Removal of dead, diseased insect infested or damaged tree or shrub limb using correct horticultural practices.

- Repair : Restoring asset within contract to its original condition in response to vandalism, breakage, etc.

- Staking : Providing artificial support to young trees or shrubs using correct horticultural techniques until they are able to be self-supporting.

- Weed : Undesirable plant species within garden beds or turf areas.

1.1.3 SCOPE OF WORK

- The Contractor shall provide regular maintenance services as outlined in these Landscape Maintenance Specifications and the monthly checklists for this project site.

- The Contractor shall examine the landscape on a regular basis, as required dependant on current site conditions.

- The Contractor shall provide regular maintenance services looking for problems or potential problems with the landscape.

- The Contractor shall provide at his/her own risk all labour, materials, tools, equipment, insurance, transportation, hauling, dumping, and all other items needed to provide the services outlined in this Specification.

- The Contractor shall be responsible for making minor repairs to landscape facilities as needed and agreed with Operations and Maintenance (O&M) site manager

- The Contractor shall take all reasonable precautions required to protect plants from abnormal temperatures.

- The Contractor shall implement and keep a maintenance log book recording when and what maintenance work has been undertaken and what materials, actions and decisions have been used, implemented and concluded to keep the landscape always looking its best. Observe trends and develop a maintenance regime around seasonal and observed event occurrences.

1.1.4 Roles and Responsibilities

See L301 for the Task Allocation Schedule.

1.2 CARE OF PLANTED AREAS

1.2.1 PRUNING TREES

- Removal of dead or diseased wood should be undertaken as it is noticed to avoid entry for pests and diseases. Works must be undertaken using appropriate equipment/tools for the task by qualified staff using correct horticultural techniques. Where pruning for rejuvenation and improvement of plant shape is undertaken, light, regular pruning is preferable to sporadic heavy cutting.

- Prune trees only in appropriate months as determined by an arborist, undertaken in the correct season to co-ordinate with new growth and avoid loss of flowers. Those plants which bear flowers on the wood from preceding years growth are to be pruned soon after flowering. Those that bear flowers on wood made in the current season should be pruned in winter or early spring.

- Trees shall be maintained in a healthy, vigorous growing condition, free from disease and large concentrations of pests.

- Prune trees branches to allow a minimum 300mm clearance above ground and progressively to provide a 2m clear trunk as growth will allow

- Prune also to remove dead, diseased, broken, dangerous, or crossing branches, and as required below.

- Discard all tree trimmings off-site using a legal method on day of works being undertaken, causing no damage to site.

- Any tree found to be dead or missing shall require a notification to the Principal advising that the tree be replaced with plant material of identical species Replacement trees shall be planted only following instruction from the principal and shall be equal in size to the originally installed tree at the time it was planted at the site. Evidence of previous tree replacement purchases shall be evidenced by delivery dockets and purchase receipts.

- The Principal's authorised representative shall approve replacement trees for size and appearance prior to planting. Correct planting technique must be used and replacement trees shall be double staked with 50 mm diameter stakes unless otherwise approved by the principal's authorised representative. Ensure no damage occurs to root ball upon installation of stakes.

- Removal and replacement must be undertaken causing minimal disturbance to existing plants.

- Mulch must be replaced to finished levels upon completion of works.

- Inspect tree stakes upon each maintenance visit and make necessary adjustments as required ensuring no damage to immature trunk or stem of plants. Remove tree stakes from trees when the trunks are larger than 50 mm caliper and the trees are able to support themselves. Remove stakes from site and dispose of by a legal method. Recycle used stakes if possible.

- Trees planted for screening purposes shall not be pruned except as needed to remove dead, diseased, broken, dangerous, or crossing branches. Check with local authorities prior to pruning. The contractor is responsible for determining if permits are needed and shall obtain and pay for any required permits as part of the basic landscape maintenance fee.

- The cutting blades on pruning shears, clippers, blades, saws, etc. shall be sterilized after pruning each tree to minimise the possibility of spreading disease.

SHRUBS

- Removal of dead or diseased wood should be undertaken as it is noticed to avoid entry for pests and diseases.

- Works must be undertaken using appropriate equipment/tools for the task by qualified staff using correct horticultural techniques.

- Shrubs shall be kept in a healthy, vigorous condition, free from disease and large concentrations of pests and diseases.

- Shrubs shall be pruned only as required for safety, visibility, and plant health, and allowed to develop into the natural shapes expected of the plant variety. Do not shear shrubs into topiary (shapes).

- Any shrub found to be dead or missing shall require notification to the Principal.

- Removal and replacement must be undertaken causing minimal disturbance to existing plants.

- Mulch must be replaced to finished levels upon completion of works.

1.2.2 GROUND COVER

Restore and maintain the ground cover of the site as soon as practicable with appropriate perennial species (to meet Condition 9a & 9b). Refer to Site Plan L102 and Pasture mix plant schedule L201.

REV F

1.2.3 FERTILISER:

Granular fertiliser to mass planted areas shall be slow release applied at maximum label rate for plant types at intervals indicated in Annual Maintenance Schedule to ensure optimum plant nutrient requirements are maintained. Water immediately after applying to move the fertiliser into the soil and wash the fertiliser off of plant surfaces.

1.2.4 FERTILISER SCHEDULE

Undertake a long term fertiliser regime, as per soil test results. Initial fertiliser/additive application at time of planting, as per soil test results

FERTILISER - Plant growth formula equal to Neutrogena Bush Tucker slow release granules.

LOCATION - All native species

NPK RATIO - 10 : 1 : 8

RATE - As per manufacturer's recommended rate

1.2.8 WEED CONTROL:

Eradicate weeds by environmentally acceptable methods using a non-residual glyphosate herbicide suitable for environmentally sensitive areas (such as Bi-active Roundup or similar), at the maximum recommended rate.

Regularly remove, by hand, rubbish and weed growth that may occur or recur throughout planted areas. There shall be no greater than 2% weed coverage within planting areas and shall not exceed 50mm tall. Hand removal of weeds must not damage screening plants to be retained.

Maintenance herbicide application must be kept to a minimum. Use surfactants to increase herbicide effectiveness by breaking down the leaf surface tension. Regular maintenance of the mulch layer will help minimise weeds in shrub and groundcover areas.

1.2.9 MULCH LAYER:

Mulch shall applied to all tree / shrub planted areas to maintain a depth of 75mm, to limit weed infestation and maintain moisture and nutrient content of garden.

Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. Spread mulch so that after settling it is smooth and evenly graded between design surface levels sloped towards the base of plant stems in mass planted beds.

Replacement of large amounts of mulch (over 0.75 cubic metre), which has been stolen, vandalized, or washed away by a single storm shall be replaced in agreement with project manager. Mulch shall be uniform and free of sticks, or trash. When replacing existing mulch, use a mulch product that is similar in appearance to that already at the site.

1.2.10 WATERING

Hand water, water truck or other irrigation as needed to supplement natural rainfall and maintain plantings in a healthy, stress-free condition. It is the contractor's responsibility to make sure that plants receive adequate water regardless of weather conditions.

Watering should be undertaken during periods of minimum evaporation (ie: during the coolest times of the day or when the garden bed is in the shade). Shrubs and trees in full sun must not be watered on the foliage to avoid leaf scorching.

It is the responsibility of the contractor to conserve water and assure that all watering rules and regulations are followed. Any penalties, fines, or citations for watering ordinance violations shall be paid by the contractor.

1.2.11 CHEMICALS, HERBICIDES, PESTICIDES

All chemicals shall be used in accordance with label directions and the manufacturer's recommended handling methods. All chemicals shall be handled in accordance with all applicable regulations. Registered chemicals shall be used only on the advice of a qualified, licensed if required, pest control advisor. Nothing in this specification shall be construed to be the advice of, or to substitute for the advice of, a pest control adviser.

F	8/12/21	ADD. INFO
REV	DATE	COMMENTS

PROJECT:

Wyalong Solar Farm

SITE:

Newell Highway, Wyalong NSW

CLIENT:

Mytilineos EGN

13531.5 - Wyalong Solar Farm Lvxw 8/12/21

DRAWN:	DATE:	SCALE:
AL / PW	06.04.21	@A3

JOB NUMBER:	PHASE:	DWG No:	REV:
13531.5	CC	L302	F



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TERRAS.COM.AU PH: 49 294 926 FAX: 49 263 069

maintenance program | L303

Wyalong Solar Farm

Vegetation Management Program

The following table is a summary of ongoing maintenance activities that will be required to be undertaken for three years following commencement of operation, to meet the requirements of condition 8.

MAINTENANCE PROGRAM FOR INITIAL 12 MONTH PERIOD

ACTIVITY	AREA	DESCRIPTION	SEASONAL DETERMINATION OF TASK												Other		
			J	F	M	A	M	J	J	A	S	O	N	D			
MULCHING	VEGETATIVE SCREEN PLANTING	INSPECT AND MAINTAIN ORGANIC MULCH COVER	✓				✓					✓					
WATERING	VEGETATIVE SCREEN PLANTING	AS REQUIRED FOR ESTABLISHMENT. DEEP WATER ALL AREAS IN TIMES OF PROLONGED DRY															AS REQUIRED AT SIGNS OF STRESS FOR MINIMUM 52 WEEKS.
WEEDING	VEGETATIVE SCREEN PLANTING	INSPECT AND UNDERTAKE WEED REMOVAL	✓									✓		✓			
FERTILISING	VEGETATIVE SCREEN PLANTING	APPLY FERTILISER											✓				APPLY SLOW RELEASE FERTILISER TO THE BASE OF EACH TREE / SHRUB
PESTS & DISEASES	VEGETATIVE SCREEN PLANTING	INSPECT FOR PRESENCE OF PEST & DISEASE AND SEEK ASSISTANCE IF FOUND	✓		✓		✓					✓		✓			
STORM EVENTS	VEGETATIVE SCREEN PLANTING	INSPECT AFTER MAJOR RAIN EVENTS. REPAIR WASHOUT/SCOURING															AFTER STORM EVENT
SITE CLEARING	APZ & FCZ	INSPECT AND REMOVE UNWANTED PLANT MATERIAL IN ACCORDANCE WITH BUSH FIRE AND AVIATION REQUIREMENTS						✓	✓	✓							UNDERTAKE SOMETIME DURING WINTER MONTHS DURING SLOWDOWN
PRUNING	VEGETATIVE SCREEN PLANTING	PRUNE LOWER BRANCHES TO ENSURE A 300MM CLEARANCE FROM THE GROUND		✓								✓					UNDERTAKE ONLY WHEN THE LONG TERM VIABILITY OF THE PLANT IS NOT COMPROMISED.
REV G RESEED	PASTURE	INSPECT EXTENTS OF PASTURE AND RESEED AS NECESSARY. TO ENSURE THE GROUND COVER IS MAINTAINED WITH APPROPRIATE PERENNIAL SPECIES AS PER PLANT SCHEDULE			✓							✓					
VEGETATION MANAGEMENT PROGRAM REVIEW	VEGETATIVE SCREEN PLANTING	UNDERTAKE A FULL REVIEW OF SUBJECT SITE, CHECKING PLANT ESTABLISHMENT / GROWTH. UPDATE VEGETATION DATA AND REVIEW MANAGEMENT PRACTICES.										✓					
MONITORING (Consent Condition 8 - b & c)	ALL LANDSCAPE WORKS	ALL SOFT LANDSCAPING TO BE ROUTINELY INSPECTED BY QUALIFIED HORTICULTURIST OR SIMILAR TO ENSURE PLANTS ARE KEPT DISEASE & INSECT FREE. INSPECTIONS ARE ALSO REQUIRED TO ASSESS HEALTH AND VIGOUR OF PLANTS & RECOMMEND REMEDIAL ACTION IF REQUIRED. THIS MAY ALSO INCLUDE FURTHER SOIL TESTS AND APPLICATIONS OF FERTILISER AND / OR TRACE ELEMENTS. ANY FAILING OR DEAD PLANTS ARE TO BE PROGRESSIVELY REPLACED. REV F ONGOING MONITORING TO ASSESS THE EFFECTIVENESS OF THE LANDSCAPING AS VISUAL SCREENING IS TO BE UNDERTAKEN. ADDITIONAL PLANTINGS MAY BE CONSIDERED, IF ASSESSMENTS INDICATE THE LANDSCAPING MEASURES ARE NOT AS EFFECTIVE AS PLANNED.		✓*				✓*				✓*			✓*		* NOMINAL (ADJUST AS REQUIRED TO SUIT COMPLETION OF THE LANDSCAPE WORKS) PROGRESSIVELY REPLACE ALL FAILING OR LOST PLANTS WITH SAME SPECIES UNLESS ADVISED OTHERWISE. PROMPTLY CARRY OUT ALL RECOMMENDATIONS OF INSPECTING HORTICULTURIST. MONITORING WILL BE REQUIRED EVERY THREE MONTHS
REPORTING (Consent Condition 8 - b & c)	ALL LANDSCAPE WORKS	FOLLOWING EACH MONITORING EVENT PREPARE A REPORT COMMENTING ON THE CONDITION OF THE LANDSCAPE WORKS. REPORTING TO INCLUDE PHOTOS OF PLANTINGS, A BRIEF REPORT OF EFFECTIVENESS OF PLANTING AND RECOMMENDATIONS FOR REMEDIAL WORKS TO BE SUBMITTED TO Mytilineos .		✓				✓				✓			✓		

ONGOING MAINTENANCE PROGRAM TO SUBSEQUENT 12 MONTHS CYCLES			J	F	M	A	M	J	J	A	S	O	N	D	
MULCHING	VEGETATIVE SCREEN PLANTING	INSPECT AND MAINTAIN ORGANIC MULCH COVER										✓			APPLY ADDITIONAL MULCH TO ANY BARE AREAS
WATERING	VEGETATIVE SCREEN PLANTING	INSPECT MONTHLY FOR WATER STRESS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AS REQUIRED AT SIGNS OF STRESS
WEEDING	VEGETATIVE SCREEN PLANTING	INSPECT AND UNDERTAKE WEED REMOVAL		✓				✓					✓		
FERTILISING	VEGETATIVE SCREEN PLANTING	APPLY FERTILISER		✓									✓		
PESTS & DISEASES	VEGETATIVE SCREEN PLANTING	INSPECT FOR PRESENCE OF PEST & DISEASE AND SEEK ASSISTANCE IF FOUND		✓									✓		
STORM EVENTS	VEGETATIVE SCREEN PLANTING	INSPECT AFTER MAJOR STORM EVENTS. REPAIR SCREEN AS REQUIRED													FOLLOWING STORM EVENTS
SITE CLEARING	APZ & FCZ	INSPECT AND REMOVE UNWANTED PLANT MATERIAL IN ACCORDANCE WITH BUSH FIRE AND AVIATION REQUIREMENTS						✓	✓	✓					UNDERTAKE SOMETIME DURING WINTER MONTHS DURING PLANT GROWTH SLOWDOWN
PRUNING	VEGETATIVE SCREEN PLANTING	ENSURE ALL TREES HAVE A CLEAR TRUNK HEIGHT OF 2M AND TALL-MEDIUM SHRUBS ARE MAINTAINED TO BE CLEAR OF TREE CANOPIES										✓			UNDERTAKE ONLY WHEN THE LONG TERM VIABILITY OF THE PLANT IS NOT COMPROMISED.
VEGETATION MANAGEMENT PROGRAM REVIEW	ALL LANDSCAPE WORKS	UNDERTAKE A FULL REVIEW OF SUBJECT SITE, CHECKING PLANT ESTABLISHMENT / GROWTH. UPDATE VEGETATION DATA AND REVIEW MANAGEMENT PRACTICES.										✓			
MONITORING (Consent Condition 8 - b & c)	ALL LANDSCAPE WORKS	ALL SOFT LANDSCAPING TO BE ROUTINELY INSPECTED BY QUALIFIED HORTICULTURIST OR SIMILAR TO ENSURE PLANTS ARE KEPT DISEASE & INSECT FREE. INSPECTIONS ARE ALSO REQUIRED TO ASSESS HEALTH AND VIGOUR OF PLANTS & RECOMMEND REMEDIAL ACTION IF REQUIRED. THIS MAY ALSO INCLUDE FURTHER SOIL TESTS AND APPLICATIONS OF FERTILISER AND / OR TRACE ELEMENTS. ANY FAILING OR DEAD PLANTS ARE TO BE PROGRESSIVELY REPLACED. ONGOING MONITORING TO ASSESS THE EFFECTIVENESS OF THE LANDSCAPING AS VISUAL SCREENING IS TO BE UNDERTAKEN. ADDITIONAL PLANTINGS MAY BE CONSIDERED, IF ASSESSMENTS INDICATE THE LANDSCAPING MEASURES ARE NOT AS EFFECTIVE AS PLANNED.		✓							✓				PROGRESSIVELY REPLACE ALL FAILING OR LOST PLANTS WITH SAME SPECIES UNLESS ADVISED OTHERWISE. PROMPTLY CARRY OUT ALL RECOMMENDATIONS OF INSPECTING HORTICULTURIST.
REPORTING (Consent Condition 8 - b & c)	ALL LANDSCAPE WORKS	REPORTING IS TO BE COMPLETED YEARLY STARTING AT THE COMPLETION OF THE INITIAL 12 MONTH MAINTENANCE PROGRAM. REPORTING TO INCLUDE PHOTOS OF PLANTINGS, A BRIEF REPORT OF EFFECTIVENESS OF PLANTING AND RECOMMENDATIONS FOR REMEDIAL WORKS, SHOULD IT BE REQUIRED. REPORT IS TO BE SUBMITTED TO Mytilineos .		✓											THE FIRST REPORT WILL BE UNDERTAKEN AND SUBMITTED BY THE END OF FEBRUARY AND THEN EVERY 12 MONTHS THEREAFTER.

G 8/12/21 ADD. INFO
REV DATE COMMENTS

PROJECT:
Wyalong Solar Farm

SITE:
Newell Highway, Wyalong NSW

CLIENT:
Mytilineos EGN

13531.5 - Wyalong Solar Farm Lvxw 8/12/21

DRAWN: AL / PW DATE: 06.04.21 SCALE: @A3

JOB NUMBER: 13531.5 PHASE: CC DWG No: L303 REV: G



GENERALLY

ESCO Pacific PTY LTD was granted Development Consent on 7 May 2019 to construct and operate the Wyalong Solar Farm. Mytilineos EGN acquired the project from ESCO Pacific PTY LTD and are now the developers.

This plan is was prepared to address Conditions of the Development Consent for Wyalong Solar Farm. Conditions addressed in this LMP are outlined below. Additional conditions are covered in the CEMP & EMS, referred to below.

Condition 1, Schedule 2 - OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

In meeting the specific environmental performance criteria established under this consent, the Mytilineos will implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, upgrading or decommissioning of the development (refer PAGE L301 - GENERAL SPECIFICATION).

Condition 7, Schedule 3 - VEGETATION BUFFER

Mytilineos will:

Establish and maintain a mature vegetation buffer to supplement the existing vegetation along the Newell Highway to the satisfaction of the Secretary (PAGE L101 & 102)

The landscape screening will:

- (a) be planted prior to commencing operations (PAGE L201 & L302);
- (b) be comprised of species that are endemic to the area (PAGE L201);
- (c) within 3 years of commencing construction, effectively screen views of the solar panels and ancillary infrastructure on-site from the Newell Highway (PAGE L102, L201, L302); and
- (d) be properly maintained with appropriate weed management (PAGE L302).

Condition 8, Schedule 3 - LANDSCAPE PLAN

Mytilineos has prepared a detailed Landscaping Plan (contained within this document) for the development in consultation with Council and RMS, to meet the satisfaction of the Secretary.

This plan includes:

- (a) a description of measures that would be implemented to ensure that the vegetated buffer achieves the objectives of condition 7 (a) — (d) above; (PAGE L102, L201, L302)
- (b) a program to monitor and report on the effectiveness of these measures, including if additional locations for further landscape screening are required to achieve the objectives of Condition 7 (b) and (c) above; and (PAGE L102 NOTE & L303)
- (c) details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for the completion of actions (PAGE L301 & L303).

Following the Secretary's approval, Mytilineos will implement the Landscaping Plan.

Condition 9, Schedule 3 - LAND MANAGEMENT

Following any construction or upgrading on the site, Mytilineos will:

- (a) restore the ground cover of the site as soon as practicable (PAGE L201);
- (b) maintain the ground cover with appropriate perennial species (PAGE L303); and
- (c) manage weeds within this ground cover (PAGE L301 & L302).

Condition 22, Schedule 3 - SOIL & WATER - Operating Conditions

Mytilineos will:

- (a) minimise any soil erosion associated with the construction, upgrading or decommissioning of the development in accordance with the relevant requirements in the Managing Urban Stormwater: Soils and Construction (Landcom, 2004) manual, or its latest version; and

Erosion will be minimised by:

- the use of measures such as:

- using best-practice guidance when designing roads and tracks
- using best-practice guidance when designing watercourse crossing
- minimising exposure of soil
- locating soil stockpiles away from waterways
- diversion of uncontaminated water away from construction areas
- catch drains / cut-off drains / roll overs
- sediment fences

- progressive rehabilitation by stabilisation and revegetation of areas no longer required to be used

Mytilineos has an Erosion and Sediment Control Plan (MYT-AU-PL-PRO-EV-0034) where this is further addressed

Condition 2, Schedule 4 - ENVIRONMENTAL MANAGEMENT - Revision of Strategies, Plans and Programs

Mytilineos will:

- (a) update the strategies, plans or programs required under this consent to the satisfaction of the Secretary prior to carrying out any upgrading or decommissioning activities on site; and
- (b) review and, if necessary, revise the strategies, plans or programs required under this consent to the satisfaction of the Secretary within 1 month of the:
 - submission of an incident report under condition 4 of Schedule 4;
 - submission of an audit report under condition 7 of Schedule 4; or
 - any modification to the conditions of this consent.

Mytilineos has an Environmental Management Strategy where this is further addressed (Section 8.3)

Condition 4, Schedule 4 - COMPLIANCE - Incident Notification

The Department will be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. The notification will identify the development (including the development application number and the name of the development if it has one), and set out the location and nature of the incident.

Mytilineos has an Environmental Management Strategy where this is further addressed (Section 10.3.3)

Condition 5, Schedule 4 - COMPLIANCE - Non-Compliance Notification

The Department will be notified in writing to compliance@planning.nsw.gov.au within 7 days after the Applicant becomes aware of any non-compliance with the conditions of this consent. The notification will identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the noncompliance (if known) and what actions have been done, or will be, undertaken to address the noncompliance.

Mytilineos has an Environmental Management Strategy where this is further addressed (Section 10.3.1)

Condition 6, Schedule 4 - COMPLIANCE - Compliance Reporting

Prior to commencing the construction, upgrading and decommissioning of the development, Mytilineos will submit a compliance report to the Department in accordance with the relevant Compliance Reporting Post Approval Requirements (DPE 2018), or its latest version.

Mytilineos has an Compliance Plan where this is further addressed

Condition 7, Schedule 4 - INDEPENDENT ENVIRONMENTAL AUDIT

Within 6 months of commencing construction, or as directed by the Secretary, Mytilineos will commission and pay the full cost of an Independent Environmental Audit of the development.

The audit will:

- (a) be prepared in accordance with the relevant Independent Audit Post Approval requirements (DPE 2018);
- (b) be led and conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
- (c) be carried out in consultation with the relevant agencies;
- (d) assess whether the development complies with the relevant requirements in this consent, and any strategy, plan or program required under this consent; and
- (e) recommend appropriate measures or actions to improve the environmental performance of the development and any strategy, plan or program required under this consent.

Within 3 months of commencing an Independent Environmental Audit, or unless otherwise agreed by the Secretary, a copy of the audit report will be submitted to the Secretary, and any other NSW agency that requests it, together with a response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations.

The recommendations of the Independent Environmental Audit will be implemented to the satisfaction of the Secretary.

Mytilineos has an Environmental Management Strategy where this is further addressed (Section 10.6)

Condition 8, Schedule 4 - ACCESS TO INFORMATION

Mytilineos will:

- (a) make the following information publicly available by uploading any approved documents to its website (www.wyalongsolarfarm.com.au) as relevant to the stage of the development:

- the EIS;
- the final layout plans for the development;
- current statutory approvals for the development;
- approved strategies, plans or programs required under the conditions of this consent;
- the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;
- how complaints about the development can be made;
- a complaints register;
- compliance reports;
- any independent environmental audit, and Mytilineos' response to the recommendations in any audit; and
- any other matter required by the Secretary; and

(b) keep this information up to date.

Mytilineos has a Consultation and Stakeholder Engagement Plan where this is further addressed .

REV B

REV B

REV	DATE	ADD. INFO.	COMMENTS
B	8/12/21	ADD. INFO.	
A	15/11/21	ADD. INFO.	

PROJECT:
Wyalong Solar Farm

SITE:
Newell Highway, Wyalong NSW

CLIENT:
Mytilineos EGN

13531.5 - Wyalong Solar Farm Lvwex 8/12/21

DRAWN: AL / PW DATE: 06.04.21 SCALE: @A3

JOB NUMBER: 13531.5 CC L304 B PHASE: CC DWG No: L304 B REV:

