

Victorian Desalination Project



D&C Utilities Environmental Management Plan
 Attachment I1 – Access & Activities on Agricultural & Grazing Land Sub Plan

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Definitions and Acronyms

The following Definitions and Acronyms are used in this document:

BJD	Bovine Johne's disease
CBTS	Cranbourne Terminal Station
CWMS	Construction Work Method Statements
D&C	Design and Construct phase of the VDP
DSE	Department of Sustainability and Environment
DPI	Department of Primary Industries
EES	Environment Effects Statement
EIRP	Environmental Incident Response Plan
EMP	Environmental Management Plan
Environmental Incident	Any event that causes, has caused or has the potential to cause an Environmental Hazard or Pollution (from section 4, Appendix S3, PS&PR). [Please see the definition of <i>Environmental Hazard</i> . Please see the definitions of <i>Pollution of Atmosphere</i> , <i>Pollution of Land</i> and <i>Pollution of Waters</i> for the legislative definitions of 'Pollution' in Victoria.]
EPA	Victorian Environment Protection Authority
EP Act	<i>Environment Protection Act 1970</i>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
HSE	Health, Safety and Environmental
JSEA	Job Safety and Environmental Analysis
KP	Kilometre Point from the plant site
NDCR	Non-descript crushed rock
O&M	Operation and Maintenance Phase of the VDP
OHS	Occupational Health and Safety
PCN	Potato Cyst Nematode
Performance Criteria	The Performance Criteria outline the overarching requirements based on the environmental objective for each Subject Area of Schedule A of Appendix S3 of the Project Scope and Project Requirements
<i>Phytophthora cinnamomi</i>	The scientific name for an introduced, soil-borne pathogen that produces an infection which causes a condition in plants called "root rot" or "dieback". Commonly referred to as cinnamon fungus
Plant site	Victorian Desalination Project Wonthaggi Plant site
Project Area	Refers to all areas designated for the project as defined in the Project Deed including both the plant area and the utilities corridor
PS&PR	Project Scope and Project Requirements



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SEI	Site Environmental Inspection
SEP	Site Environmental Plans
SEPP	State Environment Protection Policy
The State	The Honourable Timothy James Holding, MP, in his capacity as the Minister for Water of the State of Victoria for and on behalf of the Crown in the Right of the State of Victoria
TDJV	Thiess Degrémont Joint Venture
Utilities corridor	Construction footprint of the Victoria Desalination Project transfer pipeline, power supply and associated utilities
VENM	Virgin Excavated Natural Material
VDP	Victorian Desalination Project
VDP Utilities	Collective term used to refer to the power supply, transfer pipeline and communications components of the VDP including compensations reaction stations, surge vessels and the booster pump station. Refer to Section 1.4 of the Utilities AEMP for further description of these utilities.
WAP	Work Area Packages
WP	Work Packs

1 Purpose and scope

The Access and Activities on Agricultural and Grazing Land Sub Plan describes the existing agricultural and grazing land conditions and the management measures required to mitigate the potential negative impacts to agricultural and grazing land during the design and construction (D&C) of the Victorian Desalination Project (VDP)) transfer pipeline and power supply (collectively referred to as the utilities corridor).

This sub plan must be read in conjunction with the Environmental Management System (EMS) Manual, D&C Environmental Management Plan (D&C EMP) and the D&C Utilities Area EMP. This sub plan forms an attachment to the D&C Utilities Area EMP and addresses requirements listed in the Environmental Compliance Tracker (TDV-0-EV-RP-0001-01), including licence conditions, Performance Requirements (PRs), Performance Criteria (PC) and other obligations which may influence access and activities on agricultural and grazing land.

Specific management measures from this and other environmental sub plans have been incorporated into Work Area Packages (WAP) and Work Packs (WP) which include Construction Work Method Statements (CWMS), Site Environmental Plans (SEP) and Job Safety and Environmental Analysis (JSEA's) where applicable.

The following sub-plans will be implemented in conjunction with this plan:

- ~ Flora and Fauna Sub Plan
- ~ Site Reinstatement and Rehabilitation Sub Plan
- ~ Soil Management Sub Plan.

2 Objectives and Targets

The objective of this sub plan is to ensure that visual amenity and agricultural production are integral considerations during the design and construction of the VDP utilities and to ensure project objectives, targets and obligations, including PRs and associated criteria, are met.

Table 1 outlines the relevant objectives and targets to be achieved during the D&C phase of the VDP. Numbered entries are applicable PRs taken from Schedule A of Appendix S3 of the Project Deed.

Table 1: Environmental objectives, targets and performance requirements

Issue	Objective/Performance Criteria	Target/Performance Requirements
Visual Amenity – Leased Area, Transfer Pipeline Land and Booster Pump Station Land	<p>Protect visual amenity, including landscape and recreational values of the coast.</p> <p>Minimise visual impact on coastal landscapes, rural and residential properties and on publicly accessible locations (PR#01001) D.</p>	<p>Comply with the requirements of Appendix S4 Integrated Design of Architecture and Landscape) (PR#01004) D.</p> <p>The Transfer Pipeline, with the exception of any booster pump station and its power supply, air valves and scour valves, surge tanks, Water Quality Sampling Stations, the Transfer Pumping Station and the Pressure Reducing Station must be underground (PR#01014) D.</p>

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Issue	Objective/Performance Criteria	Target/Performance Requirements
		<p>Ancillary structures such as pump stations, tanks, valving, surge tanks and the like must comply with the performance criteria (PR#01015) D.</p> <p>Landscape sensitive design for the Desalination Plant and any associated structures along the Transfer Pipeline to minimise visual impacts including:</p> <ul style="list-style-type: none"> • Landscaping using species from locally occurring Ecological Vegetation Classes (EVCs) to achieve screening from rural and residential properties and on publicly accessible locations • Respecting the local landscape character and landform in any significant earthworks or landscaping • Use of non-reflective materials for roofs <p>Offer landscape mitigation measures on a case by case basis to:</p> <ul style="list-style-type: none"> • Existing residential buildings within 2 km of the Leased Area • Melbourne Water Reserve, Berwick (PR#01017)
<p>Visual Amenity – Electricity Transmission and Connection Assets</p>	<p>Minimise visual intrusion.</p> <p>Limit visual impact on rural and residential properties and on publicly accessible locations (PR#02018) D.</p> <p>Minimise impacts on landscape quality in areas with high existing landscape quality (PR#02018) D.</p>	<p>Minimise impacts on landscape and visual amenity values, especially within Significant Landscape Overlay areas, coastal areas and areas visible from key tourist routes including the Bass Highway, as well as on rural and residential properties, to the extent practicable (PR#02020) D.</p> <p>The Electricity Transmission and Connection Assets must be underground with the exception of the associated equipment at CBTS, the reactive compensation, terminal station and associated equipment at the Booster Pump Station, the reactive compensation equipment at the Mid Point Reactive Compensation Station and the Desalination Plant terminal station (PR#02021) D.</p>
<p>Activities on agricultural and grazing land</p>	<p>Minimise impacts on agricultural productivity.</p> <p>Design pipeline and grid connection easements to minimise rural impacts (PR#05035) D, C.</p> <p>Adopt construction methods and</p>	<p>In design, minimise impact on agricultural productivity including, for the Transfer Pipeline, following road reserves and/or property boundaries where practical subject to further investigations and landholder consultation (PR#05037) D.</p>

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Issue	Objective/Performance Criteria	Target/Performance Requirements
	<p>programming schedules which take account of landowner needs (PR#05035) D, C.</p> <p>Prepare appropriate rehabilitation plans with individual landholder input in order to restore land to similar existing conditions (PR#05035) D, C.</p>	<p>Comply with all agricultural or horticultural protocols that need to be respected during construction and operation (PR#05038) C.</p> <p>Comply with the Plant Health and Plant Products Act 1995 and the Plant Health and Plant Products Regulations 2006, relating to declared potato cyst nematode control area at Koo Wee Rup (PR#05039) C.</p> <p>Detail the methodology for any soil removal, assessment, reuse and management to manage biohazard risk including Potato Cyst Nematode and <i>Phytophthora cinnamomi</i> (PR#05040) C.</p>

D = Design phase requirement; C= Construct phase requirement

All PRs from Project Deed Schedule A of Appendix S3 are contained within the D&C Utilities Attachment G – Environmental Obligations Register. The Environmental Compliance Tracker tracks conformance with these PRs and is updated regularly by the TDJV Environmental Coordinator and Area Environmental Managers.

3 Legal, regulatory, licence, permits and approval requirements

3.1 Legislative Requirements

This sub plan has been developed in accordance with the following legislation and standards:

- ~ *Environment Protection Act 1970* (EP Act)
- ~ *Flora and Fauna Guarantee Act 1988* (FFG Act)
- ~ *Plant Health and Plant Products Act 1995* and the Plant Health and Plant Products Regulations 2006.

The legislative and contractual requirements for the D & C Utilities works have been incorporated into:

- ~ D&C Utilities EMP – Attachment E – Environmental Legislation Register
- ~ D&C Utilities EMP – Attachment F – Environmental License, Permit and Approval Register
- ~ D&C Utilities EMP – Attachment G – Environmental Obligations Register.

The applicable PRs from Schedule A of Appendix S3 are provided in Table 1.

Under the Project Deed the D&C EMP, all sub plans and any changes to these must be endorsed by the State, who may refer aspects to relevant agencies.

The Department of Sustainability and Environment (DSE), the Department of Primary Industries (DPI) and other relevant agencies and stakeholders (including Catchment Management Authorities and EPA) will be consulted with regard to any specific approval requirements in relation to this sub plan. The requirements of any permits, licence and approval obtained will be placed in the Environmental Licence, Permit and Approval Register on receipt and updated in the Environmental Compliance Tracker.

4 Existing Conditions

4.1 Landowners

There are approximately 150 directly affected landowners along the utilities alignment and approximately 430 indirectly affected landowners (indirectly affected landowners are those within 50 metres of the alignment). The easement also passes through Crown land consisting of grazing land, water infrastructure, road and rail and other energy corridors.

4.2 Land use

Farming enterprises vary along the route and include asparagus and pea farms, pastures for dairies, grazing and cropping, as well as lifestyle properties. Beef and dairy production are the dominant uses along the alignment. Agricultural characteristics of the alignment are shown in Table 2.

Table 2: Agricultural characteristics of the alignment

Section	Landform	Landuse
Powlett River to Woolamai	Landform is rolling steep hills	Pasture production is the dominant use utilised for dairy and beef breeding
Woolamai to Kernot	Narrow alluvial plain associated with the Bass River	Beef breeding, bullock fattening and dairying
Kernot to The Gurdies	Rolling low hills	Pasture production is the dominant use utilised for dairy and beef breeding Lower slopes are utilised for horticultural crops
The Gurdies to Monomeith	Extensive plains and gently undulating	Perennial pastures supporting dairy and beef
Monomeith to Dalmore	High quality agricultural soils suited to agricultural activity	Asparagus production (identified as a Horticultural Preservation Zone). Livestock production is complementary to crop production
Dalmore to Narre Warren	Flat to gently undulating plains country	Landuse varies with more urban interests. Mostly grazing, predominantly beef and equine, minor dairying and limited market gardening.

4.3 Access

Access to the utilities corridor will be via 39 identified access points. The utilities corridor generally follows existing road networks and property boundaries allowing direct access from existing roads. However, there are also sections of the utilities corridor that must traverse properties. To facilitate access along the utilities corridor during most weather conditions, a temporary haul road will be installed using native soils and/or imported scalps with a topping of 40mm non-descript crushed rock (NDCR). At locations where access points are not directly from road crossing points, access tracks to the utilities corridor will utilise existing property gateways and access track networks. Improvement works to these existing property tracks will include regrading and or sheeting with NDCR.

4.4 Disturbance to agricultural activities and landowners

The construction of the utilities corridor has potential to adversely affect agricultural land and grazing activities including severing paddocks, access track and farm lanes, and removing farm infrastructure such as irrigation lines, fences, water troughs and vegetation.

4.5 Agricultural weeds

There are a number of known infestations of agricultural weeds within the project utilities alignment. Detailed information is available from the DPI database and detailed information on weed hygiene is listed in the Flora and Fauna Sub Plan. More detailed information on weed infestations will be requested from landowners during the existing condition survey, further detailed in the *D & C Utilities Community Involvement Plan (TDV-0-CR-PL-0005-00)*.

4.6 Agricultural pests - Potato Cyst Nematode

The utilities corridor will traverse a declared zone of Potato Cyst Nematode (*Globodera rostochiensis*) between Koo Wee Rup-Longwarry Rd South to Koo Wee Rup Rd (KP 57-65). Potato Cyst Nematode (PCN) is a soil borne organism that affects potatoes, tomatoes, eggplants and other species of the *Solanaceae* family. PCN is a serious pest of potatoes world-wide and is subject to stringent quarantine and/or regulatory procedures in areas where it is known to occur.

In Victoria, PCN is restricted to the Koo Wee Rup district. The Department of Primary Industry (DPI) has gazetted the district as a Declared Control Area under Section 9 of the *Plant Health and Plant Products Act 1995* and the *Plant Health and Plant Products Regulations 2006*. This imposes strict restrictions on the removal of known PCN host plants and soil within the PCN control area.

4.7 Agricultural disease - Bovine Johne's disease

The majority of the properties traversed by the utilities corridor are used for dairy or other cattle grazing. Cattle and other stock including sheep, deer and goats are susceptible to Bovine Johne's disease. The spread of Bovine Johne's disease has potential to affect stock and property values.

The bacterium causing the cattle-type of the disease, Bovine Johne's disease (BJD), is *Mycobacterium paratuberculosis*. Different strains of *M. paratuberculosis* affect sheep and cattle, and although cross-infection is possible, it does not occur readily. BJD is widespread and generally considered endemic in Victoria and all of the state is declared a 'control zone' under the national program to assist control the spread of BJD in cattle in Australia. The 'control zone' status means that BJD is present in this zone, it is a notifiable disease and there are control measures in place.

BJD is spread mostly through contact with the manure of infected animals, generally between farms and regions by the everyday movements of domestic livestock. Calves are most susceptible to becoming infected and cattle over the age of 12 months are considered to be at very low risk and usually resistant to infection. Deer, goats and camelids are considered to be susceptible at any age.

M. paratuberculosis may survive in water or moist shaded conditions for months to over a year. As such, standing water in heavily stocked areas are of greater risk of carrying the disease. The main factors that reduce their viability have been identified as sunlight and heat and in around 90% of *M. paratuberculosis* bacteria die within six weeks (Animal Health Australia, 2009).

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5 Environmental risk

An environmental risk assessment has been carried out for the D & C Utilities works. This assessment is contained in the Environmental Risk Register, Attachment C of the D&C Utilities EMP. Table 3 summarises the potential hazards from project activities, potential impacts of these hazards and the risk of occurrence as rated by the environmental risk assessment.

Table 3: Summary of utilities risk assessment for Access and Activities on Agricultural and Grazing Land.

Activity posing hazard	Risk/ Potential Impact	Inherent Risk (before controls)	Control Measure Reference (Att I01.1)
Spread of agricultural or horticultural pests or diseases including BJH, Phytophthora or PCN.	Loss of agricultural productivity (PCN and BJH), spread of declared disease (PCN) to new areas, die back of native vegetation and remnant native vegetation communities.	High	#5, 24-28, 40
Site establishment activities outside of corridor	Disturbance to farming activities resulting in loss of production or routine operations	Moderate	#1-3, 7-20, 23
Incomplete treatment of material resulting in ongoing oxidation. Incomplete separation of ASS and non-contaminated material resulting in trace amounts of ASS in backfill. *	Acidification of soil resulting in poor performance of pasture or vegetation reinstatement.	Moderate	Refer to Acid Sulfate Soils Sub Plan
Trespassing resulting in prosecution. Spread of agricultural pests, weeds and disease.	Agricultural productivity. Landowner distress.	High	#2, 4-5, 20, 24-28, 36-37, 39-40
Deterioration of productivity of agricultural pasture or cropping systems.	Beneficial uses of water suitable for agriculture. Landowner complaint.	High	#3, 31
Contamination of receiving agricultural pasture or cropping systems with hydrocarbons or other contaminants.	Beneficial uses of water suitable for agriculture. Landowner complaint.	Extreme	#31, 38
Deterioration of livestock drinking water (agricultural productivity)	Beneficial uses of water suitable for agriculture. Landowner complaint.	High	Refer to Att. I09.1 Water Quality and Erosion Control
Contamination of water body with hydrocarbons or other contaminants	Beneficial uses of water suitable for agriculture. Landowner complaint.	High	#31, 38
Scour of discharge area resulting in erosion of agricultural lands	Beneficial uses of water suitable for agriculture. Landowner complaint.	Moderate	Refer to Att. I09.1 Water Quality and Erosion

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			Control
Inappropriate disposal of potentially contaminated sediment collected from tank.	Agricultural lands, soil contamination.	Moderate	Refer to Att. I07.1 Soil Management, and Acid Sulfate Soils Sub Plan
Reinstatement of subsoil is not to the original grade resulting in depressions or mounding along the corridor.	Change in surface water flow, visual amenity.	High	#41, Refer to Att. I03.1 Site Rehabilitation

* Dealt with in the Acid Sulfate Soils Sub Plan.

Attachment C of the D&C Utilities Area EMP should be consulted for a comprehensive assessment of these risks.

6 Control, management and mitigation measures

Attachment I1.1 describes a range of mitigation and control measures that will be used to minimise and manage potential impacts to agricultural and grazing land.

The measures in Attachment I1.1 are designed to address potential impacts from the risks outlined in Section 5 as well as deliver on the objectives, targets and in particular the PRs listed in Section 2. They include requirements and responsibilities for design, construction, evaluating performance and reporting.

Attachment I1.1 also references Design Packages (DPs) in design-related control measures. PRs that relate to design are addressed in accordance with the Design Management Plan (PL-TDV-PM-0-X-000-0011-0-00).

7 Site environmental plans

Site Environmental Plans (SEPs) have been developed for the utilities corridor that detail environmental sensitive areas and general management measures implemented to minimise potential impacts of construction activity on the environment and community.

The information contained in the SEPs is presented in pictorial and tabular drawing format. This is to make them easy to use by all site personnel, consultants and subcontractors. SEPs are updated to reflect operating practices on a regular basis.

The management controls relating to agricultural grazing land set out in the SEPs are drawn from this sub plan. SEPs are held by Area Environment Managers. Additional practical management measures are picked up and covered by the Weekly Environmental Checklist.

8 Evaluating performance and reporting

Environmental audits and site environmental inspections (SEIs) are scheduled to detect where PRs are not being met with appropriate corrective actions developed to address these issues as they arise. Schedules, responsibilities and reporting procedures for access and activities on agricultural and grazing land are set out in the Monitoring, inspection, audit and reporting schedule - Attachment L of the D&C Utilities Area EMP. The condition of access roads will be monitored in accordance with the Water Quality and Erosion Management Sub Plan.

Landowner requests regarding activity on agricultural and grazing land will be documented in each landowner's Mitigation Plan and presented to the Property Committee for action. This process is further explained in the *Community Involvement Plan*. Consultation with landowners during construction will be recorded in the Consultation Manager database.

9 Contingency measures

Contingency measures have been developed and are summarised below. The control measures table (Attachment I1.1) focuses on preventative measures.

All environmental incidents will be responded to in accordance with the Utilities Environmental Incident Response Procedure (EIRP) (PR-PLV-PM-3-X-000-0001-00-00). The EIRP provides project specific details for the identification of and response to potential environmental related incidents along the utilities corridor during the D&C phase of the VDP. It provides guidance on strategies to manage potential and actual incidents, as well as follow-up and reporting requirements.

The environmental risk assessment has identified the following circumstances that could occur outside normal operating conditions that relate to access and activities on agricultural and grazing land:

- ~ Impacts / disturbance to stock or farming activities resulting in loss of production or routine operations
- ~ Movement of soil resulting in the spread of Bovine Johne's Disease resulting in impacts to stock and land value
- ~ Movement of soil resulting in the spread of Potato Cyst Nematode (PCN) resulting in impacts to crops and land value
- ~ Movement of soil resulting in the spread of *Phytophthora cinnamomi* (cinnamon fungus) resulting in dieback of vegetation

The management of each of these situations is outlined below.

9.1 Disturbance to stock or farming activities

The Utilities Corridor *Land and Stakeholder Management Plan* (PLV-3-MA-PL-0013) outlines the extensive consultation with all landowners affected by the design and construction of the utilities corridor as summarised below and detailed in Attachment I1.2 – Consultation Process Flow Chart.

Pre-construction surveys will be completed of all properties to identify infrastructure condition and location including boundary and internal fences, gates, drains, water and power supply, tracks, pasture or cropping type and record other landowner requests. The details of these surveys are recorded in the Pre-construction Condition Report.



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Based on the Pre-construction Condition Report and further consultation with landowners, a Construction Line List is developed which are included in the Work Packs to direct the decommissioned, relocation or replacement of infrastructure identified in the Pre-construction Condition Report in addition to other control measures agreed to with each landowner. The Construction Line Lists are live documents may be updated numerous times during negotiations with each land owner. The Construction Line List and associated consultation is brought forward for inclusion in each property's Mitigation Plan and presented to the Property Committee.

The Mitigation Plans are also incorporated into each property's Reinstatement Plan. Final acceptance of site rehabilitation requires sign off by each of the affected landowners. Where acceptance of the rehabilitation is not agreed to by a landowner, the Rehabilitation Consultant acts to verify the adequacy of rehabilitation and either specify further remediation works or provide sign off in lieu of the landowner.

If a landowner is dissatisfied with any stage of the project they can contact the Land Liaison Officers to address the issue directly. Processes for addressing concerns of stakeholders and landowners are addressed in Lands and Stakeholder Management Plan.

9.2 Disease and agricultural pest spread

A precautionary approach will be adopted when managing construction, vehicle and personnel movements in areas of native vegetation, and within pre-determined agricultural land. The most likely cause of infection would be through accidental spread into new areas through transmission on vehicles, personnel or contaminated material such as infected soil, plant material and aggregate (infected gravel/bedding material).

Actions to control the spread of BJD, Cinnamon Fungus and PCN are detailed in Attachment I1.3 Utilities Corridor Biosecurity Management Procedure (PLV-3-EV-PR-0002-00).

10 References

10.1 VDP Documents

~ Environment Effects Statement, Volume 4, Chapter 4, 11 and 12

10.2 Technical Legislative Documents

~ Animal Health Australia (2005), BJD Frequently Asked Questions, <http://www.animalhealthaustralia.com.au/aaahc/index.cfm?0D05C666-EEFD-FA0E-4499-9AA0B12B6DAA> retrieved on 11 March 2009.

~ Minister of Planning VDP Assessment under the Environment Effects Act 1978, (Jan 2009)



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ATTACHMENT I1.1 ACCESS & ACTIVITIES AGRICULTURAL AND GRAZING LAND - CONTROL MEASURES TABLE

ATTACHMENT I1.1 AGRICULTURAL MANAGEMENT – CONTROL MEASURES TABLE

#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
1	Utilities corridor site selection	05035, 05037, 01001	<p>Minimise impacts to agricultural and grazing land when considering the site selection of the utilities corridor.</p> <p>Where feasible, the corridor should follow road reserves and or property boundaries to minimise the severance of paddocks, properties and farm infrastructure.</p>	Design Manager	Design	Site plans	
2	Landowner liaison	05035	<p>Conduct pre-, during- and post-construction landowner liaison to provide landowners with relevant information about the project. Landowner liaison will also include:</p> <ul style="list-style-type: none"> Identifying farm infrastructure that will be modified prior to construction; Timing works to allow maximum harvest from the affected areas; Asking landowners about weeds or biosecurity considerations for the property. Property specific measures to be collated in Property Line Lists and integrated with landowner input into the reinstatement plan for each property. 	Stakeholder and Community Relations Manager	Pre-, during, and post construction	Stakeholder meeting minutes, Construction Line Lists	

#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
3	General design measures	01001, 01004, 01014, 01015, 01016, 02018, 02020, 02021, 05035, 05037	<p>The Transfer Pipeline, Electricity Transmission and Connection Assets and ancillary structures will conform to the following design requirements:</p> <ul style="list-style-type: none"> • Be entirely underground with the exception of the booster pump station and its power supply, air and scour valves, surge tanks, Water Quality Sampling Stations, the Transfer Pumping Station, the Pressure Reducing Station, associated equipment at the CBTS, the reactive compensation at the Midpoint Reactive Compensation Station and the Desalination Plant station, terminal station and associated equipment; • Structures that are not underground will have visual impacts minimised through landscape sensitive design, use of locally occurring EVCs to achieve screening from rural and residential properties and on publicly accessible location; • At crossings of major waterways, roads, railways and services, the pipeline will remain fully buried by designing vertical deflections or bends to enable it to pass below the obstruction/road/riverbed and remain buried; • A minimum vertical clearance is maintained which is determined based on a number of factors including the relevant authority's requirements and geotechnical information; • No aerial crossings will be present along the transfer pipeline • Respecting the local landscape character and landform in any significant earthworks or landscaping; • Use of non-reflective materials for roofs 	Design Manager – Transfer System	Design	Relevant design packages	
4	Weed survey	-	Prior to gaining construction access to private properties, a weed survey will be undertaken to identify significant weed infestations and translocation risks at each property.	Area Environment Manager	Pre-construct	Completed weed survey for each property accessed	

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#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
5	Induction	-	All construction personnel will be made aware of the affected of Johne's disease, cinnamon fungus and PCN in inductions, how they may be spread by the projects activities and control measures to be undertaken to prevent their spread.	Project Manager	Construct	Training records	
7	Site Access and Activity	05035, 05037	Access to site and site activity will be undertaken in accordance with the Community Involvement Plan and with all relevant legislation and project plans	Construction Manager, Site Supervisors and Superintendants	Construct	Site Inspection Records	
8	Access tracks	01001, 01016, 02018, 05037	Access tracks between roads and the utilities corridor will be constructed in such a way as to minimise their impact on the surrounding landscape and sensitive receptors including: <ul style="list-style-type: none"> - construction next to fence lines or other anthropogenic landscape features where possible to minimise the aesthetic impact - designed to fit in with existing farm laneways so as to minimise disruption to each farming operation - drainage and sediment control measures installed where necessary to protect the integrity of the tracks themselves and the surrounding land. 	Construction Manager	Construct	Site inspection records	
9	Access tracks	-	All access points to the utilities corridor, as identified in approved traffic management plans, will be signposted as 'Pipeline Access Point No #'. All other gates will be signposted as 'No Pipeline Access'	Construction Manager	Construct	Evidence of signs in site inspection records	
10	Access tracks	-	Site speed limit signs will be placed at entrance points and will be enforced.	Construction Manager	Construct	SEI, Site Inspection Records	
11	Access tracks	-	All access tracks created will be temporary and will be required for the duration of the construction and commissioning works. Reinstatement of tracks will be undertaken to return the land to its original contour with the installation of drainage and erosion measures where necessary. If a landowner requests that a track is left, the issue will be raised with the Property Committee for action	Construction Manager	Construct	Final Site Inspection report, Property Committee meeting minutes	

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#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
12	Access tracks	-	Gates will be shut where requested with signage attached to reinforce any landholder requests to each person taking access to site.	Construction Manager	Construct	Site inspection records	
13	Access tracks	-	If access tracks are within paddocks containing animals, an assessment will be undertaken on a farm by farm basis to determine if it is possible to eliminate cattle access to tracks or if a regime is required to remove manure from access tracks (to minimise vehicular contact with manure).	Area Environment Manager	Construct	Site Inspection Records	
14	Access road/track maintenance	-	Assign a road maintenance team to manage the road's upkeep including regular grading and watering to ensure local amenity is maintained	Construction Manager	Construct	Site Inspection Records	
15	Delivery of plant and equipment and lay down areas	-	Haul roads and access tracks will be clearly identified to ensure delivery is made to the correct location.	Construction Manager, Site Supervisors and Superintendants	Construct	Site Inspection Records	
17	Delivery of plant and equipment and lay down areas	-	Site buildings and access roads should be positioned such that the minimum disturbance occurs to the locality or sensitive receptors.	Construction Manager	Construct	SEP	
18	Delivery of plant and equipment and lay down areas	-	Loading and unloading of plant and machinery must be undertaken on the easement. There will be no tracking of plant or any other acquired work spaces off the construction right of way (ROW) without landowner or land manger approval.	Construction Manager, Site Supervisors and Superintendants	Construct	Site Inspection Reports	
20	Earthwork activities	-	All earthwork activities will be confined to the construction easement and other acquired extra work spaces.	Construction Manager	Construct	Site Inspection Records	

Att I1 D&C Utilities EMP – Agricultural Management Sub Plan

#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
21	Earthwork activities	05040	All areas that are being disturbed will have 100-150mm of topsoil stripped and stockpiled to facilitate rehabilitation of the area at the end of the works period (subject to the natural depth of the topsoil).	Construction Manager	Construct	Site Inspection Reports	
22	Earthwork activities	-	Haul roads shall be designed and installed using native soils and or imported VENM with a topping of 40mm NDCR (non-descript crushed rock) prior to substantial construction works to reduce potential for dust generation resulting from vehicle movements.	Construction Manager	Construct	Supplier validation certificates, sampling results of imported soils	
23	Earthwork activities	-	Any requests from landholders to conduct works off the ROW must be referred to the Property Committee.	Site Supervisors and Superintendants	Construct	Property Committee meeting minutes	
24	Machinery hygiene	05038	Landowners will be requested to advise of any known weed, pest or disease that affects the property to enable areas of concern to be avoided and additional biosecurity measures implemented where required	Community and Land Liaison Manager	Construct	Construction Line Lists	
25	Machinery hygiene	05040	The work crew must ensure that all vehicles, plant and equipment accessing the easement in agricultural and grazing lands are free of thick mud or clods that are likely to transport weed seed, agricultural weeds or pathogens.	All personnel	Construct	Site Inspection Records	

Att I1 D&C Utilities EMP – Agricultural Management Sub Plan

#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
26	Machinery hygiene	05040	All vehicles, plant, equipment and personnel accessing the easement within beef, dairy, sheep, goat or deer farms prior to stripping of topsoil or during reinstatement will be required to wash down with Hibatane on entry and exit of each property in accordance with the Utilities Corridor Biosecurity Management Procedure (PLV-3-EV-PR-0002-00) to minimise the risk spread of Bovine Johne’s disease.	Construction Manager, Site Supervisors and Superintendants	Construct	Wash Down Form - Biosecurity Personnel Record (FM-TDN-EN-0-X-000-0003-C-00) and Wash Down Form - Biosecurity Vehicle (& Machinery) Record (FM-TDN-EN-0-X-000-0003-D-00)	
27	Machinery hygiene	05040	All vehicles, plant, equipment and personnel accessing the easement via native vegetation areas or Crown land will be required to wash down with Phytoclean on entry and exit in accordance with the Utilities Corridor Biosecurity Management Procedure (PLV-3-EV-PR-0002-00).	All personnel	Construct	Wash Down Form - Biosecurity Personnel Record (FM-TDN-EN-0-X-000-0003-C-00) and Wash Down Form - Biosecurity Vehicle (& Machinery) Record (FM-TDN-EN-0-X-000-0003-D-00)	

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#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
28	Machinery hygiene	-	Use the recommended dosage of chemicals for vehicle and equipment sterilisation to avoid excessive usage.	All personnel	Construct	SEIs	
30	Waste Management	05040	No waste materials will be disposed of in excavations. All waste materials will be removed from site prior to reinstatement.	Construction Manager, Site Supervisors and Superintendants	Construct	Site inspection records	
31	Stockpiles	-	Surplus spoil will be removed from site in accordance with Spoil Management Plan (PLV-3-CN-PR-0002). At project completion, stockpiles of soil will not be left within the alignment or on other land without first obtaining the consent of the landowner, relevant catchment management authority and the relevant Water Authority and notification to the local Council.	Construction Manager	Construct	Final site inspection report	
32	Parking	-	Parking of work vehicles will be restricted to the construction easement or other designated areas that are acquired as extra work space. Parking on native vegetation off the ROW is prohibited.	Construction Manager	Construct	Site inspection records	
33	Parking	-	Muster points will be established along the utilities corridor where the majority of the workforce will meet each day. From these points, workers will either be bussed to the work front or travel in work vehicles.	Construction Manager, Site Supervisors and Superintendants	Construct	Site inspection records	
34	Parking	-	Parking in long grass is prohibited due to increased fire risk.	Area Environment Manager	Construct	SEPs and SEIs	
36	Public access	-	'No pipeline access' will be erected at all property gates along that utilities corridor that are not for use by the project to prevent project vehicles and machinery from using private driveways or existing the site onto private land through non-authorized access points.	Site supervisors	Construct	Site inspection reports	

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#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
37	Public access	-	Community relations and land liaison staff will inform stakeholders and community groups of site security and restriction of access. Fact Sheets will be sent to all adjacent landholders and made available to the public through the public display centres and on the Project web site regarding restriction of access to the construction site.	Community and Land Liaison Manager	Construct	Completed fact sheets and relevant information on the website	
38	Servicing, fuelling and repair of machinery	-	Each crew will have a spill kit to be utilised in case of a hydrocarbon spill or hydraulic fluid (refer to the D&C Utilities EMP Attachment 2 – Hazardous Materials Sub Plan for details of the hazardous material control measures).	Site Supervisors and Superintendants	Construct	Site inspection records	
39	Fencing	-	<p>Install temporary fences to provide delineation of the easement during construction unless requested otherwise agreed by the landowner.</p> <p>Fencing should remain in place for the duration of reinstatement until the rehabilitation consultant determines that reinstatement is complete in accordance with the Site Reinstatement and Rehabilitation Sub Plan.</p> <p>Repairs to any fences that have been cut or modified for access during construction will be repaired to the satisfaction of the landowner(s) concerned. This will be done as soon as practical following construction.</p> <p>Any outstanding issues regarding fencing will be referred to the Property Committee for resolution.</p>	Construction Manager	Construct	Site Inspection Reports	
40	Biohazard minimisation	5039	All vehicles and machinery exiting the site within the designated PCN zone (between Woo Wee Rup Longwarry Rd south to Koo Wee Rup Rd) must be inspected prior to leaving the designated zone to determine if the vehicle is free of clods of soil or thick mud. Vehicles and machinery that have clods of soil or thick mud must wash down prior to exiting the declared zone.	Area Environment Manager	Construct	Wash Down Form - Biosecurity Vehicle (& Machinery) Record (FM-TDN-EN-0-X-000-0003-D-00)	

Att I1 D&C Utilities EMP – Agricultural Management Sub Plan

#	Issue	PR # addressed	Control Measure	Responsibility *	Project Phase	Evidence	Audit Check
41	Reinstatement	01017, 05035	Reinstatement of the ROW and access tracks will be undertaken in accordance with the Site Reinstatement and Rehabilitation Sub Plan and landowner requirements (refer to the Community Involvement Plan). Rehabilitation plans will be developed with individual landholder input in order to restore land to similar existing conditions. A rehabilitation plan will be developed that outlines the roles of the company, the landowner and the independent rehabilitation consultant.	Rehabilitation Consultant	Construct	Rehabilitation plan incorporating landholder input into the Community Involvement Plan	

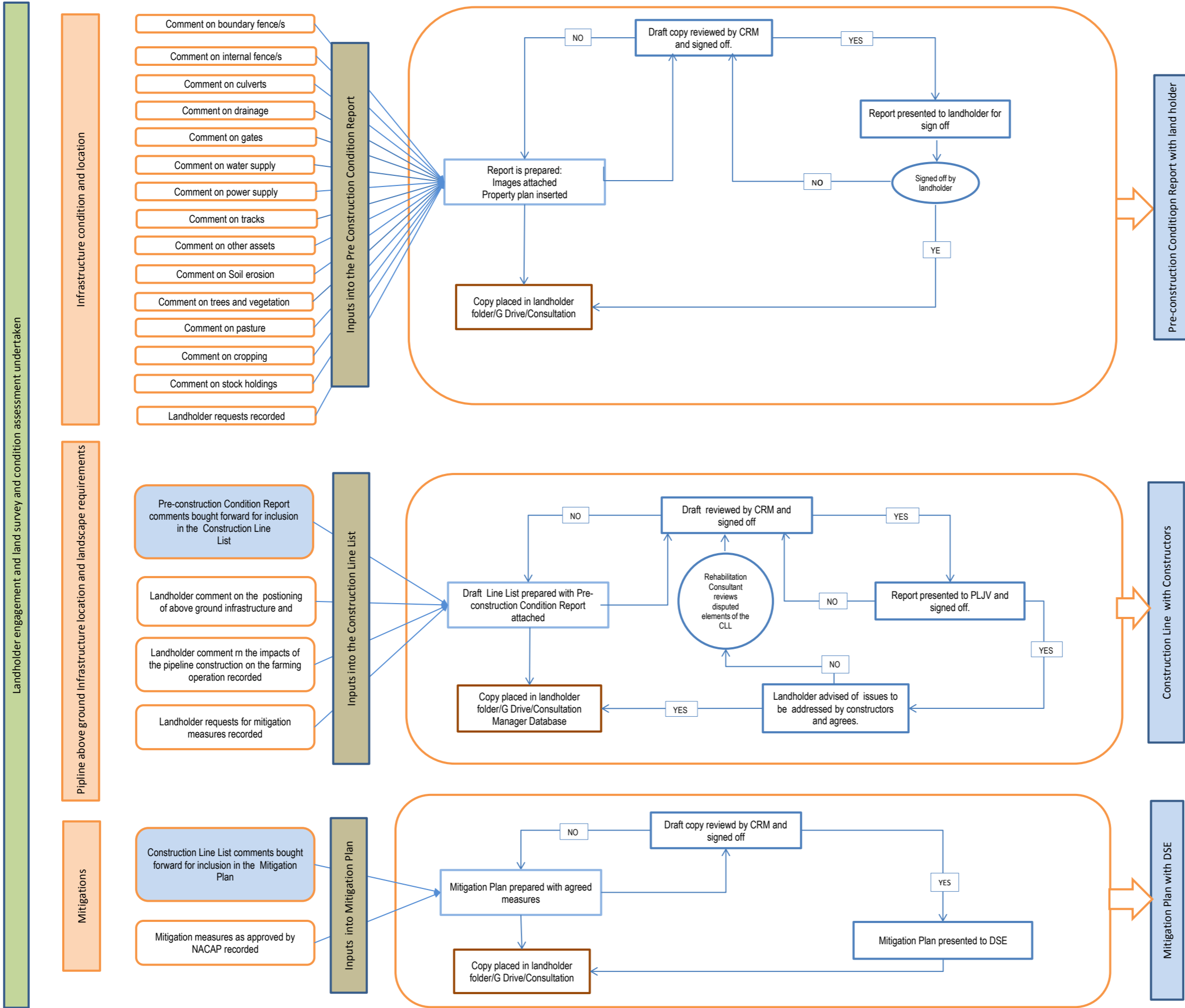
* The Responsibilities column refers in many cases to senior positions within the project organisation, due to the changing nature of project teams. In practice some responsibilities may be delegated by the person nominated.



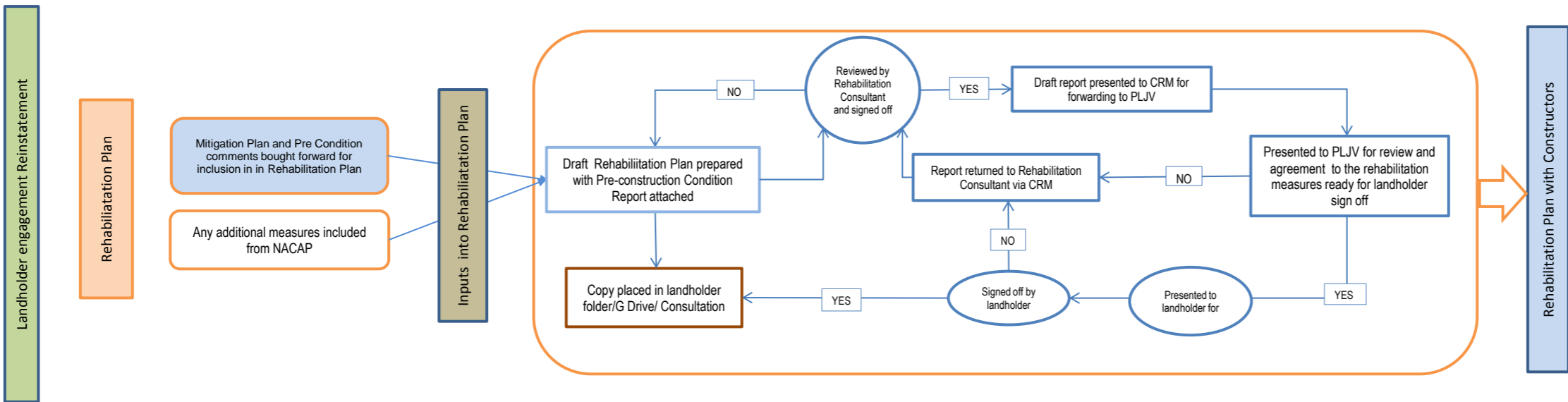
D&C Utilities EMP Attachment I1 – Access & Activities on Agricultural & Grazing Land Sub Plan

ATTACHMENT I1.2 ACCESS & ACTIVITIES AGRICULTURAL AND GRAZING LAND – CONSULTATION PROCESS FLOW CHART

Victoria Desalination Plant
Thiess Degremont Nacap Pipeline JV
Report Flow Chart



Victoria Desalination Plant
Thiess Degremont Nacap Pipeline JV
Report Flow Chart





D&C Utilities EMP Attachment I1 – Access & Activities on Agricultural & Grazing Land Sub Plan

ATTACHMENT I1.3 ATTACHMENT I1.3 UTILITIES CORRIDOR BIOSECURITY MANAGEMENT PROCEDURE

1 Project Overview

The Victorian Desalination Project (VDP) is a project commissioned by the Victorian Government to help provide a rain independent clean drinking water source for the Victorian people. The desalination plant is located on the Bass Coast approximately three kilometres from Wonthaggi. The desalination plant consists of a number of discrete buildings generally consisting of a feed pump station, filtering area, reverse osmosis area and a dosing area, all of which are inter-connected with pipes. There are also large water storage “ponds” and a transfer pump station which will be used to deliver the treated water to Cardinia reservoir via an 85 km transfer pipeline.

2 Purpose and Scope

A Biosecurity Management Plan (BMP) is required for the pipeline construction phase of the VDP to address a number of pathogens known to be present in the project area including:

- **Cinnamon Fungus (*Phytophthora cinnamomi*):** a soil borne pathogen (a water mould) that attacks the root system of native plants causing ‘dieback disease’.
- **Bovine Johne’s Disease (BJD):** is a chronic disease of the digestive system of cattle. BJD causes wasting and failure to thrive in cattle and often leads to death or euthanasia.
- **Potato Cyst Nematode (PCN):** is a serious pest of potatoes and other related plants including tomatoes and eggplants. PCN is caused by a tiny worm-like animal less than 1mm in length that attacks plant roots.
- **Amphibian Chytrid Fungus (ACF):** Chytridiomycosis is a highly infectious disease of frogs and other amphibians

The purpose of this BMP is to set out the appropriate biosecurity and impact minimisation techniques to be implemented during and following construction of the pipeline for the VDP. The BMP is part of an environmental management system, which is designed to ensure that information on environmental requirements is provided to personnel in a relevant, accessible and understandable form.

3 Biosecurity Wash Down Procedures:

Each wash down kit comprises:

- A brush for removing soil and organic matter (OM)
- Low pressure, hand-held, spray bottles
- Tubs for personnel footwash
- Biosecurity vehicle/machine and personnel registers (BVR/BPR)
- MSDSs
- Wash down chemicals (Phytoclean, Hibitane and Bleach)
- Clean water

All vehicles/machinery and equipment should arrive at the property clean (i.e. free of soil and OM)

Biosecurity wash down points will be located at each property entry and site exit point. Wash-down must be undertaken prior to entry to property and exit of site.

3.1 Vehicle & Machinery Biosecurity Procedure

On Entry to a Property (Refer Figure 1)

1. Remove any bulk soil or OM from vehicle/machine or equipment, using a brush, shovel or similar, focusing on areas likely to harbour soil and organic material (i.e. tyres, wheel arches, cleats, augers).
2. Wash down with water to ensure all loose mud and soil is removed from the machine or equipment.
3. Wash down the vehicle/machine or equipment with appropriate chemical(s) for the site from a low pressure sprayer. Particular attention should be paid to areas likely to harbour soil and OM. **Within the PCN zone, thorough wash-down with water** is required because there is no known chemical for PCN.
4. Before entry to the property, ensure the BVR is filled out correctly.

On Exiting a Site (Refer Figure 1)

Upon leaving the site repeat steps 1-3 (above) and sign out on the BVR.

NOTE: For trucks using water for locating underground services, they are required to dispose of each slurry load into an area adjoining the area of soil disturbance (onto pasture, not exposed soil) within the property from which the material came. Within the PCN control zone, upon completion of works at the last property within the control zone the slurry holding tank will be flushed. This will be undertaken on site, with clean water to remove all soil traces from the holding tank.

3.2 Personnel Biosecurity Procedure

On Entry to a Property (Refer Figure 1)

1. Remove any bulk soil or OM from personnel footwear, using boot brush provided.
2. Wash down footwear with water to ensure the remaining loose mud and soil is removed from the footwear.
3. Wash footwear with appropriate chemical(s) for the site from a low pressure sprayer or step through the chemical tubs provided.
4. Before entry to the property, ensure all personnel sign in on the BPR

On Exiting a Site (Refer Figure 1)

Upon leaving the site repeat steps 1-3 (above) and sign out on the BPR.

3.3 PCN Biosecurity Procedure

Post Clear and Grade (Refer Figure 2)

1. Following the Clear and Grade (i.e. the topsoil is removed and stockpiled) no vehicle/machinery biosecurity washdown is required when entering the PCN zone.
2. Upon exiting the Right of Way (RoW) within the Koo Wee Rup PCN zone, all vehicles must proceed directly to either of the designated washdown sites for inspection and/or washdown. The washdown sites are located at McDonalds Drain Road or Longwarry Road (Appendix A).
3. Site washdown attendants are to inspect all vehicles departing the PCN zone for levels of soil adhesion to determine whether the washdown process is or are not required and reinspect every vehicle washed down for unacceptable levels of soil adhesion.
 - a. Vehicles that are deemed to be in a dusty condition, i.e. with no clods of soil or thick mud attached, are exempt from mandatory washdowns before exiting the PCN zone.
 - b. Vehicles deemed dirty, i.e. clods of soil attached, of any size or dimension, or thick mud, must proceed through the designated washdown bay
4. Any vehicle not washed down properly must be rewashed until all clods of soil or thick mud are removed.

NOTE: BVR must be completed for all vehicles (including machines) exiting the PCN zone.

3.4 For Works along Road Reserves

To prevent the spread of weeds from road reserves into other areas along the alignment, personnel should:

1. Ensure clothing, vehicles/machinery and equipment is clean prior to entering the road reserve and/or property.
2. Minimise soil disturbance within the road reserve.
3. All personnel, vehicle/machinery not required to enter the road reserve should not enter the area, unless necessary.
4. Upon leaving the area, brush down clothing/boots, vehicle/machinery and any equipment used back into the road reserve area to minimise spread of seed material out of the source area.
5. Boots, vehicles/machines and equipment should be washed down with clean water, particularly if conditions are wet and soil/mud and seed material is more likely to adhere to boots and equipment.

If personnel identify any noxious weed in the road reserve area in which they are working, they should inform the Site Supervisor or Environment Officer, so appropriate weed management of that area can be applied.

3.5 Biosecurity Waste Disposal Procedure

1. At the end of day, or works at a property, deposit any waste water and sediment from foot wash trays into waste water containers (min 10L).
2. This waste water container will need to be emptied into a larger waste water drum as required.
3. When the drum requires emptying, Biosecurity Personnel will organise its removal.

Any empty chemical containers must be appropriately disposed of. Do not place them in general rubbish on site.

4 Induction, Training and Communication:

Instruction on the Biosecurity Management System and associated procedures will form a component of the Project Induction undertaken for all project personnel.

To ensure that all staff, contractors and subcontractors maintain a high level of vigilance and compliance, the Environment Team will reinforce biosecurity procedures at daily prestart meetings, weekly Toolbox meetings, and meetings of Supervisors as they occur.

PLJV – Biosecurity Management Procedure

Table 1. Summary of Biosecurity Requirements

Pathogen	Location on Utilities Alignment	Construction activities requiring biosecurity procedures	Procedure required	Frequency
<i>Phytophthora cinnamomi</i>	All alignment (with exception of Berwick residential area)	All early works and until completion of Clear and Grade. During reinstatement works.	Remove excess soil material from vehicle/ plant and personnel using water, brushes, shovels etc. Spray/rinse areas contacted by soil with Phytoclean .	On entry/exit of each property
Bovine Johne's Disease	All alignment (with exception of Berwick residential area)	All early works and until completion of Clear and Grade. During reinstatement works.	Remove excess soil material from vehicle/ plant and personnel using water, brushes, shovels etc. Spray/rinse areas contacted by soil with Hibitane .	On entry/exit of each property.
Potato Cyst Nematode	Koo Wee Rup Rd (KP 64) to Koo Wee Rup Longwarry Road (KP57.25).	All early works and until completion of Clear and Grade. Post Clear and Grade During reinstatement works.	1. Remove excess soil material from vehicle/ plant and personnel using water, brushes, shovels etc. Final rinse to be with water. 2. All vehicles (including machinery) to be subject to inspection at one of two bays situated at each end of the PCN zone, prior to leaving the zone. Any removal of soil from the PCN Zone requires prior issue of DPI Permit.	1. On entry and exit of each property. 2. On departure from PCN zone. Permanent washdown bays to be erected at each end of zone. Map of roads to use as access to wash down bays to be prepared and distributed to relevant crew (to ensure vehicles / machinery do not exit the zone en-route to the washdown bays). Any removal of soil from PCN Zone.
Amphibian Chytrid Fungus	All alignment	For all works involving earth breaking activities.	Remove excess soil material from vehicle/ plant and personnel using water, brushes, shovels etc. Spray areas contacted by soil with Bleach .	If undertaking work within 10m of a waterway, waterbody or dam and if more than 1km from previous washdown for ACF.
Weed Species	All alignment	All early works and until completion of Clear and Grade. During reinstatement works.	Above control measures will assist with control of general weed species.	At each property boundary.

Figure 1. Procedures required for property entry and site exit pre clear & grade and during clear & grade.

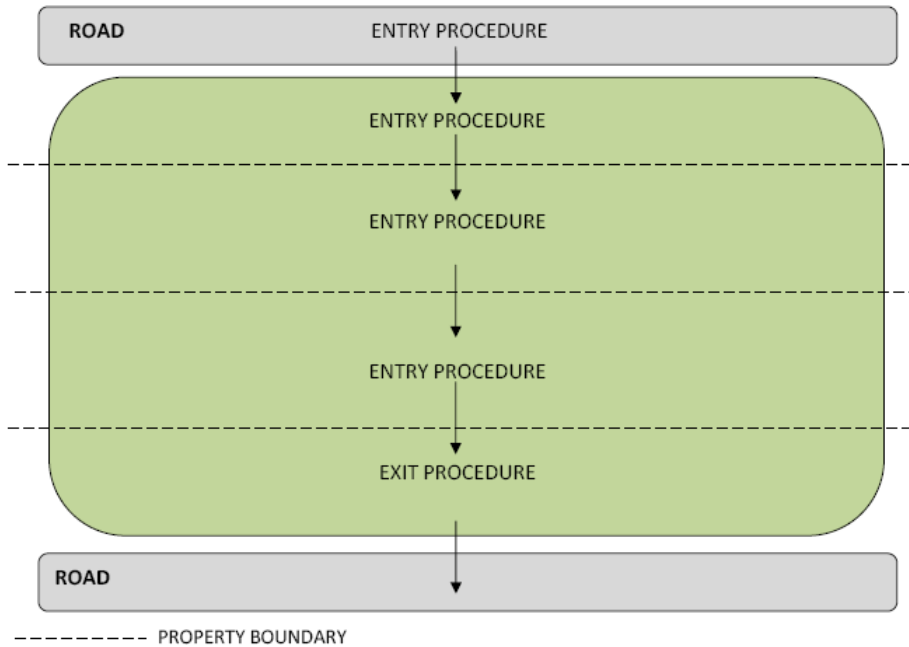
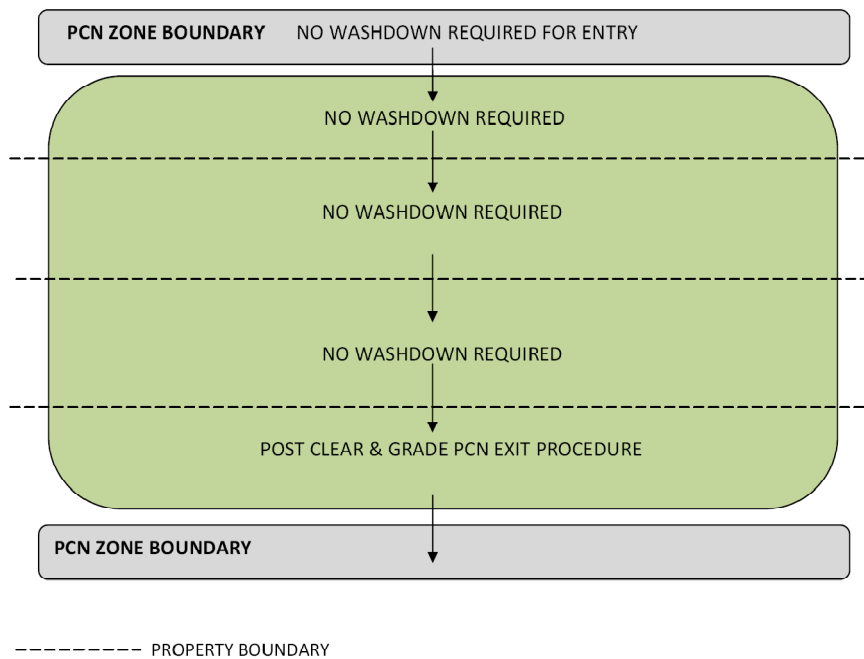
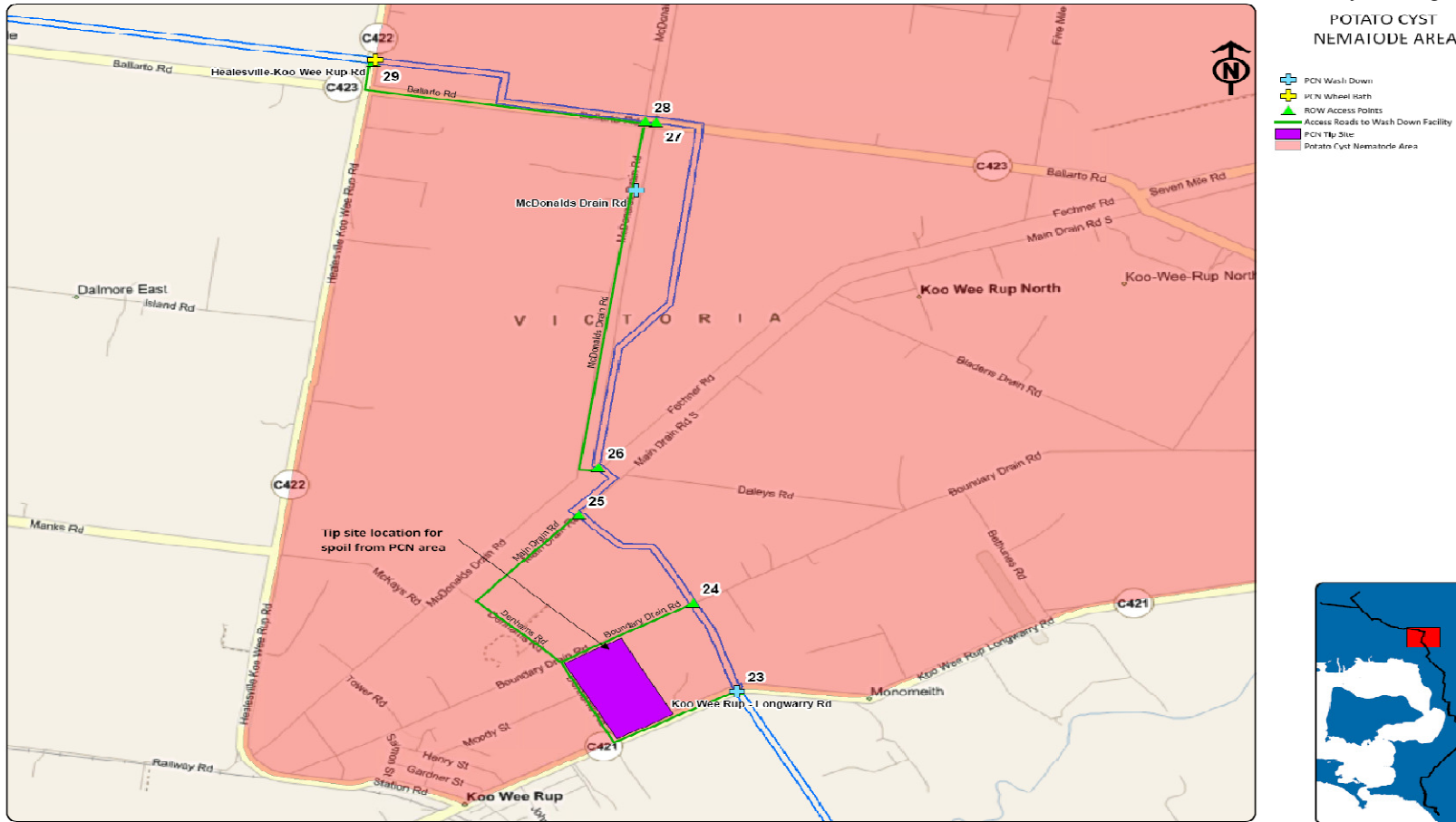


Figure 2. Procedure required for PCN ZONE post clear and grade.

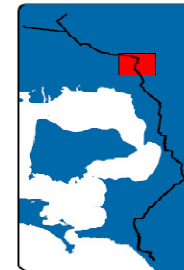


APPENDIX A – PCN ZONE AND WASH BAY LOCATION

PLJV – Biosecurity Management Procedure



Source: Draft Wheel Wash Site Proposal for PCN Area





VICTORIAN DESALINATION PROJECT

PLJV – Biosecurity Management Procedure

PLJV – Biosecurity Management Procedure
APPENDIX B – BIOSECURITY RECORD FORMS

Copies of the following forms have been attached.

PLJV – Biosecurity Management Procedure
Wash-Down Form



Biosecurity Personnel Record (BPR)

This log sheet is to be completed by all personnel upon access/egress of a property. Boots should be washed down using the appropriate chemical(s) following biosecurity wash-down procedures. It is the responsibility of the Site Supervisor to ensure log sheets are completed. **Sheets must be checked and signed off by the Site Supervisor at the end of the day and forwarded to the relevant Environment Officer.**

Date	Name	Company	SEP	KP	Property ID	Phytoclean (Cinnamon fungus)	Hibitane (BJD)	Bleach (Chytrid fungus)	Water (PCN)	Time in	Time out
Site Supervisor to sign-off form at the end of day. This will be forwarded to the Environment Officer for reporting.						Site Supervisor sign-off:	Name	Signature	Date		

PLJV – Biosecurity Management Procedure
PCN Wash-Down Form

Biosecurity Vehicle/Machinery Record (BPR)

This log sheet is to be completed by all PCN wash bay attendant for each vehicle/machine exiting the PCN zone. Vehicle/Machinery should be inspected by wash bay attendant to determine whether water wash down is required. It is the responsibility of the Site Supervisor to ensure log sheets are completed. **Sheets must be checked and signed off by the Site Supervisor at the end of the day and forwarded to the relevant Environment Officer.**

Date	Vehicle Registration/ID	Company	Wash Bay Location	Wash Down Required	Wash Down Not Required	Time Out
Site Supervisor sign-off:		Name	Signature		Date	