## **ONSHORE ENVIRONMENTAL RISK ASSESSMENT**

An environmental planning risk assessment has been undertaken for both onshore (**Attachment 07**) and offshore activities (**Attachment 08**). As part of the risk assessment, environmental assets/values were identified, sources of risk identified, potential project impacts were articulated, including ancillary and facilitated works and control measures identified to mitigate risks.

As noted in the referral document, there is a high level of inherent uncertainty around the final pipeline corridor and gas plant location due to the conceptual nature of the project design. However, the absence of a detailed design and finalised footprint for the project does not prevent the development of preventative and proactive measures that will condition the design to be considerate of environmental and cultural assets. The uncertainty associated with the project is temporary in nature.

The risk assessment matrix applied for the onshore environmental risk assessment and the offshore environmental risk assessment are based on preliminary concept of the project and will be evaluated at an ENVID workshop prior to the project commencing.

Environmental Aspect	EES Referral Reference	Additional Legislative Context	Source of Risk	Potential Impact		Untreated Consequence	Untreated Risk Score	Management Commitments	Treated Likelihood	Treated Consequence	Residuc Risk Rating
Project activities impacting on Flora and Native Vegetation during construction activities	<ul> <li>Is any native vegetation likely to be cleared or otherwise affected by the project?</li> <li>What investigation of native vegetation in the project area has been done?</li> <li>What is the maximum area of native vegetation that may need to be cleared?</li> <li>Which Ecological Vegetation Classes may be affected?</li> <li>Have potential vegetation offsets been identified as yet?</li> </ul>	Avoid or minimise the loss of FFG and EPBC listed threatened flora species and ecological communities     Identify threatening processes under the FFG act and implement management conditions to minimise the Project's contribution to a level that is as low as is reasonably practicable     Comply with the Planning and Environment Act, 1987     Comply with the intent and provisions of the Wellington Planning Scheme     Comply with Victoria's Permitted clearing of native vegetation-Biodiversity assessment guidelines	Disturbance caused by the construction process, specifically: - Clearing of vegetation - Land disturbance - Soil movement and replacement - Vehicle and machinery movement - Formation of temporary site access - Laydown and vehicular turnaround preparation - Clearing and excavation associated with Horizontal Directional Drilling	Impact to endangered or very high conservation significance EVCs     Impacts to plants or communities, listed under FFG or EPBC     Non-permitted clearing by construction crews	Almost Certain	Major	E	<ul> <li>A site-specific ecology survey will be undertaken during the detailed design phase to determine precise presence and absence of native vegetation and vegetative communities to confirm desktop data. Targeted surveys may be undertaken should desktop assessment indicate the presence of endangered species.</li> <li>GB Energy will apply the principles of 'Avoid' and 'Minimise' in pipeline alignment selection. Avoid via: <ul> <li>Re-alignment around environmental assets (primary avoidance mechanism) or Horizontal Directional Drill (HDD) underneath environmental assets (secondary avoidance mechanism).</li> <li>Compression facility and associated access will be located on predisturbed areas of land where possible, avoiding areas remnant vegetation and mature regrowth.</li> <li>'No-go' areas (areas of remnant vegetation and mature regrowth) in close proximity to the disturbance footprint will be GPS located and clearly marked e.g. with signage, bunting, flagging tape</li> </ul> </li> <li>Offsets shall be considered in the context of Biodiversity information explanatory document. Measuring value when removing or offsetting native vegetation (DELWP 2017).</li> <li>Impact to native vegetation will be minimised with any residual removal being evaluated by ecologists. Biodiversity Impact and Offset Requirements report will be prepared on a 'worst case' scenario with offsets being secured during the project planning phase.</li> <li>GB Energy will prepare an Environmental Management Framework (EMF) that will contain all environmental commitments for the project, including specific measures to address predicted impacts and risks.</li> </ul>	Unlikely	Minor	L

							<ul> <li>GB Energy will work collaboratively with technical consultants to adopt alternative, no impact or low impact construction methodologies where native vegetation values are identified. The most appropriate methodology will be selected on a case by case basis and documented in EMF.</li> <li>A construction environmental risk analysis will be undertaken following completion of the survey program and selection of the construction contractor(s). This will enable site specific planning and control</li> </ul>		
							<ul> <li>measures to be collectively workshopped to ensure impact minimisation from construction.</li> <li>Construction contractor(s) will be required to prepare a Construction Environmental Management Plan (CEMP) that will outline how they propose to comply with the commitments detailed within GB Energy's Environmental Management Framework. The CEMP will be focused on preferred construction methodologies and sitespecific controls that will be implemented in order to ensure compliance with the EMF.</li> </ul>		
Project activities impacting on Flora and Native Vegetation during the operational phase	<ul> <li>Is any native vegetation likely to be cleared or otherwise affected by the project?</li> <li>What investigation of native vegetation in the project area has been done?</li> <li>What is the maximum area of native vegetation that may need to be cleared?</li> <li>Which Ecological Vegetation Classes may be affected?</li> <li>Have potential vegetation offsets been identified as yet?</li> </ul>	Avoid or minimise the loss of FFG and EPBC listed threatened flora species and ecological communities     Identify threatening processes under the FFG act and implement management conditions to minimise the Project's contribution to a level that is as low as is reasonably practicable     Comply with the Planning and Environment Act, 1987     Comply with the intent and provisions of the Wellington Planning Scheme     Comply with Victoria's Permitted clearing of native vegetation-Biodiversity	Disturbances caused by operational activities: - Vegetation maintenance activity; - Operational vehicle movement; - Soil disturbance during operation and maintenance activity (pipeline dig ups, etc.)	Impact to endangered or very high conservation significance     EVCs     Impacts to plants or communities, listed under FFG     or EPBC.     Non-permitted clearing by     operation and maintenance crew's occurs.  Possible  Possible	Major	M	<ul> <li>All Project components shall be designed, constructed and maintained to Australian Standards and in accordance with Australian legislation. There will be a heavy emphasis on continued safe operation of all component parts of the project with several layers of engineering controls and continued monitoring and maintenance of the infrastructure and apparatus to ensure that the infrastructure is operated safely within its design limitations.</li> <li>GB Energy will prepare an Operational Environmental Management Plan (OEMP) for all components of the project. The OEMP will focus on analyzing operational environmental risk. It will nominate commitments and control measures that will be used to ensure compliance with regulatory conditions and include procedures and work instructions focused on the protection of the environment from the continued operation of the infrastructure.</li> <li>GB Energy will develop and maintain an environmental line list (ELL) that will record all environmental threats and values to native vegetation within the pipeline corridor. The ELL will be used to monitor and control localised soil stability, noxious weeds, pest animal species or other environmental threat. Any environmental values will be nominated and protected during operation of the GB Energy project. The ELL will be updated on a regular basis as new threats or values are identified and formally reviewed every five years.</li> <li>Any maintenance activity within an area containing a previously identified threat or value will be thoroughly evaluated prior to site mobilisation. Control measures will be</li> </ul>	Minor	

Fauna - Aqua Environmental	tic and Terrestrial  EES Referral Reference	assessment guidelines  Additional	Source of Risk	Potential Impact	Untreated	Untreated	Untreated	put into place to ensure the protection of the environmental asset(s). This could include mitigation measures such as scheduling the timing of works so as to fall outside of breeding season so as to minimise impact to fauna species.  Management Commitments	Treated	Treated	Residual
Aspect		Legislative Context			Likelihood	Consequence			Likelihood	Consequence	Risk Rating
Project construction activities impacting on native fauna species and habitats including aquatic species and habitats	<ul> <li>What investigations of native fauna in the project area have been done?</li> <li>Have any threatened or migratory species or listed communities been recorded from the local area?</li> <li>What threatening processes affecting these species or communities may be exacerbated by the project?</li> <li>Are any threatened or migratory species, other species of conservation significance or listed communities potentially affected by the project?</li> <li>Is mitigation of potential effects on indigenous fauna proposed?</li> </ul>	<ul> <li>Avoid and/or minimise impacts on FFG and EPBC listed threatened fauna species or habitats</li> <li>Avoid and/or minimise impacts on native fish species</li> <li>Avoid and/or minimise impacts on habitat for native fauna species</li> </ul>	caused by the construction process, specifically: - Clearing of vegetation - Land disturbance - Soil movement and replacement - Vehicle and machinery movement - Formation of	Non-permitted damage or destruction of native terrestrial and aquatic fauna habitat from construction activities     Mortality to terrestrial and aquatic species including listed threatened species from construction activities	Almost Certain	Major		<ul> <li>A site-specific ecology survey will be undertaken during the detailed design phase to determine precise presence and absence of native fauna and native fauna habitat to confirm desktop data. Targeted surveys may be undertaken should desktop assessment indicate the presence of endangered species.</li> <li>GB Energy will prepare an EMF that will contain all environmental commitments for the project, including specific measures to address predicted impacts and risks.</li> <li>A construction environmental risk analysis will be undertaken following completion of the survey program and selection of the construction contractor(s). This will enable site specific planning and control measures to be collectively workshopped to ensure impact minimisation from construction.</li> <li>Construction contractor(s) will be required to prepare a CEMP that will outline how they propose to comply with the commitments detailed within GB Energy's Environmental Management Framework. The CEMP will be focused on preferred construction methodologies and site-specific controls that will be implemented in order to ensure compliance with the EMF.</li> <li>The gas compression facility site should be located to avoid high quality fauna habitat.</li> <li>A permit holding fauna handler will conduct a search immediately prior to clearing of vegetation for the presence of fauna species.</li> <li>Where fauna is detected, the handler will assess and implement the most appropriate method to avoid or minimise impacts on that fauna as a result of clearing in line with permit conditions.</li> <li>Trenches inspected daily before works.</li> <li>Use of fencing or bunting will be installed adjacent to sizeable excavations that are proposed to be left open following the completion of each working day.</li> <li>All open excavations to have fauna egress's and excavations to be restricted in the timeframe they are open.</li> <li>Welded pipe strings will have end caps inserted when work is not active around the site to prevent fauna access.</li> <li>D</li></ul>		Minor	

processes affecting these species or communities may be excepted by the excepted by the processes of communities may be excepted by the processes of communities and processes of conservation significance or listed communities problem for the protection of the protection of the environmental or proposed?  It is mitigate that the protection of protection of the environment from the confined procedures and work introductions control introduced on the protection of the environmental or through the protection of the environmental or throu
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Environmental	EES Referral Reference	Additional	Source of Risk	Potential Impact	Untreated	Untreated	Untreated	Management Commitments	Treated	Treated	Residual
Aspect		Legislative			Likelihood	Consequence	Risk Score		Likelihood	Consequence	Risk
		Context									Rating
Impact on	Will the project require	<ul> <li>Environmental</li> </ul>	Disturbance	<ul> <li>Uncontrolled</li> </ul>	Almost	Moderate		GB Energy will prepare an EMF that will	Unlikely	Minor	
surface water	significant volumes of	Protection Act,	caused by the	ground	Certain			contain all environmental commitments for			
regimes and	fresh water (e.g.	1970 and 2017	construction	disturbance				the project, including specific measures to			
quality	>1Gl/yr)?	<ul> <li>Water Act, 1989</li> </ul>	process,	activities				address predicted impacts and risks.			
	Will the project	(CMA Works on	specifically:	impact listed			u	<ul> <li>A construction environmental risk analysis</li> </ul>			1
	discharge waste water	Waterways	- Soil movement	aquatic			п	will be undertaken following completion of			L
	or runoff to water	Permits)	and replacement	species and				the survey program and selection of the			
	environments?	<ul> <li>Fisheries Act</li> </ul>	- Vehicle and	habitat				construction contractor(s). This will enable			
	<ul> <li>Are any waterways,</li> </ul>	1995	machinery	<ul> <li>Ineffective</li> </ul>				site specific planning and control measures			
	wetlands, estuaries or	Wildlife Act 1975	movement	scheduling							

marine environments likely to be affected?  Are any potentially affected wetlands listed under the Ramsar convention or in 'A Directory of Important Wetlands in Australia'?  Could the project affect streamflows?  Could environmental values (beneficial uses) of water environments be affected?  Could aquatic, estuarine or marine ecosystems be affected by the project?  Is there a potential for extensive or major effects on the health or biodiversity of aquatic, estuarine or marine ecosystems over the long-term?  Is mitigation of potential effects on water environments proposed?	intent and provisions of the Wellington Planning Scheme  • Compliance with EPA Environmental Guidelines for Major Construction Sites.  • Compliance with EPA Victoria Bunding Guidelines Publication 347 (December 1992).	- Formation of temporary site access - Laydown and vehicular turnaround preparation - Installation of valves and meters - Power line upgrade connections	leads to water inundation in Lake Reeve prior to reinstatement of work  Ineffective reinstatement leads to long term impact on waterway crossing location			to be collectively workshopped to ensure impact minimisation from construction.  Construction contractor(s) will be required to prepare a CEMP that will outline how they propose to comply with the commitments detailed within GB Energy's Environmental Management Framework. The CEMP will be focused on preferred construction methodologies and site-specific controls that will be implemented in order to ensure compliance with the EMF.  Any crossings will be undertaken in accordance with Works on Waterways permit conditions from the West Gippsland Catchment Management Authority (WGCMA).  Inspections will be undertaken with WGCMA personnel on an as required basis Frosion and sediment controls shall be installed as per the Erosion and Sediment Control Plan (ESCP).  Where practicable, low risk waterway crossings will be scheduled during dry, low or no flow periods and where weather forecast is favourable (<50% chance of rainfall in the next 48hrs).  Open trench will be closed as far as is practicable prior to forecast rainfall events.  Constructions superintendent will remain vigilant regarding flood warnings, receiving daily weather reports and subscribing to flood warnings receiving daily weather reports and subscribing to flood warnings receiving daily weather reports and subscribing to flood warnings receiving daily weather reports and subscribing to flood warning services where available.  GB Energy will prepare an adverse weather contingency plan as part of the CEMP that will specify planned response to forecast rainfall events.
		Disturbance caused by the construction process, specifically: - HDD failure	HDD - Uncontrolled discharge	Almost Certain	Moderate	Horizontal Directional Drilling slurry consisting of Bentonite, a clay based product, would be managed in accordance with documented procedures (to be referenced in each CEMP and approved Works on Waterways permits. Bentonite is only used in high sand based conditions.  Horizontal Directional Drilling slurry would be managed in accordance with documented procedures (to be referenced in the CEMP) and approved Works on Waterways permits.  Materials management:  No refueling within 100m of a wetland or waterway.  Pumps or generators present on site must be bunded in accordance with the EPA Victoria Bunding Guidelines Publication 347 (December 1992).
Erosion and sedimentation leading to impacts on water quality		Disturbance caused by the construction process, specifically: - Vegetation clearing - Land disturbance	Ineffective site based controls lead to sedimentation of waterway and transport of silt/soil off site or precipitate an uncontrolled release of	Almost certain	Moderate	All works will be carried out in accordance with the EPA Environmental Guidelines for Major Construction Sites and EPA Publication 275: Construction Techniques for Sediment Control     GB Energy shall prepare an Erosion and Sediment Control Plan (ESCP) as part of each CEMP describing standard erosion and sediment controls that will be applied across the project.  Minor  L

- Formation of temporary site access - Laydown and vehicular turnaround preparation -De-watering of the trench and excavations	<ul> <li>Erosion and sediment controls shall be installed as per the ESCP.</li> <li>De-watering of trenches and excavations must be in accordance with the ESCP and meet accepted water quality parameters prior to release.</li> <li>No pollution or obvious sediment laden run-off is to be discharged directly or indirectly into wetlands or waterways.</li> <li>Construction work will cease at waterway crossings prior to forecast heavy rain fall</li> </ul>
	events at the discretion of the Construction Manager to avoid excessive disturbance to soil and the potential for sedimentation of the watercourse. This will be in accordance with the adverse weather contingency plan  Spoil and topsoil stockpiles will be located a minimum of 10m from the top of the active water channel at low risk trenched
	crossings to reduce the risk of site based run-off into the waterway.  No storage of chemicals or hazardous substances in or adjacent to surface waters, drainage lines or floodplains.  Any pumps or generators present on site must be bunded in accordance with the EPA Victoria Bunding Guidelines Publication 347 (December 1992).

Environmental	EES Referral Reference	Additional	Source of Risk	Potential Impact	Untreated	Untreated	Untreated	Management Commitments	Treated	Treated	Residual
Aspect		Legislative			Likelihood	Consequence	Risk Score		Likelihood	Consequence	Risk
-		Context				-				-	Rating
Impact on cultural heritage sites and items, which may be located within and near the construction area.	Have relevant Indigenous organisations been consulted on the occurrence of Aboriginal cultural heritage within the project area?      What investigations of cultural heritage in the project area have been done?      Is any Aboriginal cultural heritage known from the project area?      Are there any cultural heritage places listed on the Heritage Register or the Archaeological Inventory under the Heritage Act 1995 within the project area?      Is mitigation of potential cultural heritage effects proposed?	<ul> <li>Aboriginal Heritage Act, 2006 (as amended, 2016)</li> <li>Aboriginal Heritage Regulations, 2007</li> <li>Heritage Act,</li> </ul>	Disturbance caused by the construction process, specifically: - Clear and grade - Temporary site access - Laydown and vehicular turnaround	Disturbance to known and unknown sites of aboriginal significance.     Harm to cultural heritage artefacts and landmarks.	Almost Certain	Moderate	Н	<ul> <li>Construction will occur in accordance with the commitments of the approved Cultural Heritage Management Plan (CHMP).</li> <li>A copy of the CHMP will be kept on-site for the duration of the activity (hardcopy or soft copy).</li> <li>All personnel will be required to undertake an induction which includes Cultural Heritage value identification.</li> <li>Workforce to be trained in action plan scenarios and supervision of clearing by cultural heritage representatives.</li> <li>All cultural sites will be reviewed by cultural heritage representatives with high significance sites supervised during construction (where topsoil is graded off).</li> <li>Contingency measures listed within the CHMP will be adhered to.  Historic Heritage: <ul> <li>All contractors will be made aware through inductions and training of areas of Historic Heritage value along the construction ROW. Out of the ordinary to be reported to supervision before works can to continue.</li> <li>No Go Zones:</li> <li>'No-go' will be clearly demarcated to prevent unauthorised impacts to Aboriginal Cultural Heritage Places and Historic Heritage Sites</li> <li>During construction, the entire length of</li> </ul> </li> </ul>	Unlikely	Minor	L
								<ul> <li>During construction, the entire length of the construction corridor and associated</li> </ul>			

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							work areas will be regularly inspected to			
							assess the effectiveness of protection			
							measures, including established 'no go'			
							zones.			
Impact on	• Have relevant	<ul> <li>Aboriginal</li> </ul>	Disturbances	<ul> <li>Disturbance to</li> </ul>	Likely Mo	oderate 💮 💮 💮	<ul> <li>All Project components shall be designed,</li> </ul>	Unlikely	Minor	
cultural heritage	Indigenous	Heritage Act	caused by	known and			constructed and maintained to Australian	-		
sites and items,	organisations been	2006 (as		unknown sites			Standards and in accordance with			
during the	consulted on the	amended,	activities:	of aboriginal			Australian legislation. There will be a heavy			
operational	occurrence of	2016)	- Vegetation	significance.			emphasis on continued safe operation of			
phase	Aboriginal cultural	<ul> <li>Aboriginal</li> </ul>	maintenance	• Harm to			all component parts of the project with			
	heritage within the		activity;	cultural			several layers of engineering controls and			
	project area?	Regulations,	- Operational	heritage			continued monitoring and maintenance of			
	<ul> <li>What investigations of</li> </ul>	2007	vehicle	artefacts and			the infrastructure and apparatus to ensure			
	cultural heritage in the			landmarks			that the infrastructure is operated safely			
	project area have		- Soil disturbance				within its design limitations.			
	been done?	<ul> <li>Wellington</li> </ul>	during operation				GB Energy will prepare an Operational			
	• Is any Aboriginal	Planning	and maintenance				OEMP for all components of the project.			
	cultural heritage	Scheme	activity (pipeline				The OEMP will focus on analyzing			
	known from the project		dig ups, etc.)				operational environmental risk. It will			
	area?						nominate commitments and control			
	Are there any cultural						measures that will be used to ensure			
	heritage places listed						compliance with regulatory conditions and			
	on the Heritage						include procedures and work instructions			
	Register or the						focused on the protection of the			
	Archaeological						environment from the continued operation			
	Inventory under the						of the infrastructure.			
	Heritage Act 1995						GB Energy will develop and maintain an			
	within the project					н	ELL that will record all environmental			L
	area?						threats and values to native vegetation			_
	• Is mitigation of						within the pipeline corridor. The ELL will be			
	potential cultural						used to monitor and control localised soil			
	heritage effects						stability, noxious weeds, pest animal			
	proposed?						species or other environmental threat. Any			
	proposed:						environmental values will be nominated			
							and protected during operation of the GB			
							Energy project. The ELL will be updated on			
							a regular basis as new threats or values are			
							identified and formally reviewed every five			
							years.			
							Any maintenance activity involving			
							ground disturbance activity within an			
							area containing a previously identified			
							threat or value will be thoroughly			
							evaluated prior to site mobilisation.			
							Control measures will be put into place to			
							ensure the protection of the			
							environmental asset(s). This could include			
							mitigation measures such as scheduling			
							the timing of works so as to fall outside of			
							breeding season so as to minimise impact			
							to fauna species.			
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Environmental Aspect	EES Referral Reference	Additional Source of Ris	Potential Impact	Untreated	Untreated Consequence	Untreated	Management Commitments	Treated Likelihood	Treated Consequence	Residual
Aspeci		Context		Likeliilood	Consequence	KISK SCOIE		Likeliilood	Consequence	Rating
Impacts on Soils	Is there a potential for	Environmental     Disturbar	e Erosion/ mixing of	Almost	Moderate		<ul> <li>All works will be carried out in</li> </ul>	Possible	Minor	
including erosion	effects on land	Protection Act, to veget	tion topsoil and	Certain			accordance with the EPA Environmental			
and	stability, acid sulphate	1970 and	soil subsoils;				Guidelines for Major Construction Sites			
sedimentation	soils or highly erodible	Wellington during	sedimentation of				and EPA Publication 275: Construction			
	soils?	Planning construct	on watercourses; sub-				Techniques for Sediment Control.			
	• Are there	Scheme activities	standard			H	<ul> <li>Erosion and sediment controls shall be</li> </ul>			M
	geotechnical hazards	EPA     Removal	of reinstatement/				installed as per the ESCP. Measure will			
	that may either affect	Environmental topsoil	rom rehabilitation in				include:			
	the project or be	Guidelines for construct	on problem soil areas				<ul> <li>Geofabric to be installed over</li> </ul>			
	affected by it?	Major RoW					temporary stockpiles that will be in			
	,	-					place for long-periods to reduce			

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invasion.  a Any sail compaction identified is to be inject solowing controller.  be inject solowing controller.  from a repurible inject-easily local supplies, be wead and disease free.  Induction training for all personnel on Sail Management to include the imperance of isspanders of topolar local solowing and the project in controller in the project including specific measures to rethe project, including specific measures to address predicted impacts and six will work collaboratively with a contain all environmental commitments for the project, including specific measures to address predicted impacts and six will work collaboratively with fachicial constitution methodologies where notive vegetation values are destinated in enot appropriate and the project in methodologies where notive vegetation values are destinated in enot appropriate and address and add		
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sulfate soils (ASS)	Is there a potential for effects on land stability, acid sulphate soils or highly erodible soils?	Protection Act, 1970  Wellington Planning Scheme  EPA Environmental Guidelines for Major Construction Sites.  EPA Victoria Bunding Guidelines Publication 347 (December 1992).  655.1: Acid Sulfate Soil and Rock (July 2009)	Disturbance to known areas of ASS during clearing and excavation activities     Disturbance to areas of ASS during clearing and excavation activities	leading into acid leaching into adjacent soil and nearby waterways			M	<ul> <li>Undertake an ASS investigation to ground truth areas of ASS and advise on management measures during construction.</li> <li>Identify and where practicable avoid disturbing areas of potential and actual acid sulfate soils.</li> <li>Manage potential and actual acid sulfate soils in accordance with best practice guidance - 655.1: Acid Sulfate Soil and Rock (July 2009)</li> </ul>			ι
Flooding & dro	EES Referral Reference	Additional	Source of Risk	Potential Impact	Untreated	Untreated	Untreated	Management Commitments	Treated	Treated	Residua
Aspect		Legislative Context			Likelihood	Consequence			Likelihood	Consequence	Risk Rating
Impacts on Flood Management Zones, flooding and drainage regimes	Could the project affect streamflows?	<ul> <li>Environmental Protection Act, 1970</li> <li>Wellington Planning Scheme</li> <li>Regional Catchment Management Strategies.</li> </ul>	Flooding from existing drainage channels or floodplains across the work site	Impact to assets within the area of works.	Possible	Moderate	M	<ul> <li>Identify and minimise disturbing existing flooding and drainage channels during construction. Where disturbance of existing flood-prone land is unavoidable, minimise the duration of impact and reinstate to a level that protects the asset from future flood events and returns the profile of the ground surface.</li> <li>Work on land subject to inundation should be undertaken in dry weather conditions.</li> <li>All work on land subject to inundation will be constructed according to the provisions of the adverse weather contingency plan</li> <li>Reinstatement of all drainage lines to their original soil profile</li> </ul>		Minor	L
Biosecurity											
Environmental Aspect	EES Referral Reference	Additional Legislative Context	Source of Risk	Potential Impact	Untreated Likelihood	Untreated Consequence	Untreated Risk Score	Management Commitments	Treated Likelihood	Treated Consequence	Residua Risk Rating
Impacts from the introduction and spread of pest plants and animals  Impacts animal borne, plant borne, or soil borne diseases attributable to	Is mitigation of potential social effects proposed?	<ul> <li>Catchment and Land Protection Act, 1994 (CaLP Act)</li> <li>Regional Catchment Strategies.</li> <li>A Guide for Machinery Hygiene for Civil Construction'</li> </ul>	construction process, specifically: - Clearing of vegetation - Land disturbance	Weed transfer caused by construction vehicles, machinery and personnel movement between properties     Introduction of new	Almost Certain	Moderate	н	<ul> <li>GB Energy will prepare an EMF that will contain all environmental commitments for the project, including specific measures to address predicted impacts and risks.</li> <li>Construction contractor(s) will be required to prepare a CEMP that will outline how they propose to comply with the commitments detailed within GB Energy's Environmental Management Framework, The CEMP will include a</li> </ul>		Insignificant	L

Biosecurity Sub-Plan to ensure biosecurity

management measures are in place

phase to determine precise presence and absence of noxious weeds that

Imported material able to transport weed

seed will be assessed to ensure they are

 A site-specific ecology survey will be undertaken during the detailed design

during construction.

require control.

the capital works

activities.

(CCF, 2011)

- Vehicle and

- Formation of

temporary site access

- Laydown and vehicular

machinery

movement

turnaround

preparation

biosecurity

region

issues to the

	- Clearing and		free of contamination, disease and	
	excavation		invasive weeds. Landowner approval	
	associated with		may also be required for imported soils	
	Horizontal		and gravel.	
	Directional Drilling			
	Directional Dilling		All construction personnel will receive	
			induction training in procedures for	
			personal weed-control hygiene practices,	
			such as removing seeds and mud from	
			clothing and footwear.	
			All vehicles and construction equipment	
			will be cleaned by the contractor prior to	
			arrival on the construction footprint in line	
			with the EPA approved guideline: A Guide	
			for Machinery Hygiene for Civil	
			Construction' (CCF, 2011)	
			Machinery hygiene areas may be	
			situated at specific locations during	
			construction for the use of all plant,	
			vehicles and personnel equipment in line	
			with the findings of the ecology survey.	
			Signage will be installed at approved	
			hygiene areas to advise personnel of this	
			requirement. Personal clothing and	
			footwear is also to be checked by	
			construction personnel for seeds and mud	
			at these designated points.	
			All vehicle and machinery movement will	
			be confined to the construction footprint	
			and access of vehicles and personnel to	
			any areas of known noxious weed	
			infestation will be restricted.	
	D: 1 1 1 1 1	<del>   </del>		
Impacts from the • Is mitigation of • Catchment	Disturbances • Weed transfer		All Project components shall be designed,   Possible   Insignificant	L
introduction and potential social effects and Land		Certain	constructed and maintained to Australian	
spread of pest proposed? Protection Act	operational construction			
	operational construction		Standards and in accordance with	
	·		Standards and in accordance with Australian legislation. There will be a heavy	
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Traffic Manage	emen <del>t</del>							Any maintenance activity involving ground disturbance activity within an area containing a previously identified threat or value will be thoroughly evaluated prior to site mobilisation. Control measures will be put into place to ensure the protection of the environmental asset(s). This could include mitigation measures such as scheduling the timing of works so as to fall outside of breeding season so as to minimise impact to fauna species.			
Environmental Aspect	EES Referral Reference	Additional Legislative Context	Source of Risk	Potential Impact	Untreated Likelihood	Untreated Consequence	Untreated Risk Score	Management Commitments	Treated Likelihood	Treated Consequence	Residual Risk Rating
Environmental impact from increased traffic movement related to the project	Is the project likely to generate significant volumes of road traffic, during construction or operation?  Is there a potential for significant effects on the amenity of residents, due to emissions of dust or odours or changes in visual, noise or traffic conditions?	<ul> <li>Environmental Protection Act, 1970</li> <li>Catchment and Land Protection Act, 1994 (CaLP Act)</li> <li>Crown land (Reserves) Act, 1978</li> </ul>	t, vehicles and equipment  d t, t) d t, t) cr	Reduced air quality and amenity  Spread of weeds and pathogens  Damage to third party property Impact to sensitive heritage or environmental assets	Almost Certain	Moderate	H	<ul> <li>All construction personnel will receive induction training in procedures for personal weed control hygiene practices</li> <li>A Traffic Management Plan will be prepared as part of the CEMP prior to commencement of the works.</li> <li>The requirement for weed hygiene bays will be determined following landholder requests and observations from site walk throughs.</li> <li>All vehicles plant and equipment will be maintained in good working condition</li> <li>All vehicles and construction equipment will be cleaned by the contractor prior to arrival on the construction ROW in line with the Civil Contractor's Federation guidelines 'A Guide for Machinery Hygiene for Civil Construction' (CCF, 2011) to ensure they are certified clean and weed free.</li> <li>All vehicles, plant and equipment must remain on designated roads, access tracks and construction footprint at all times. Topsoil stripping to be only just in front of trenching crew to maintain subsoil moisture and reduce dust generation. Signage to be placed on roads effected by dust, speed and vehicle movement restrictions during high dust conditions.</li> </ul>	Possible	Insignificant	
Amenity Impa	<u></u>		Refueling of project equipment	Contamination of soil or water from fuel leaks	Likely	Minor	M	<ul> <li>Material contaminated as a result of a spill (e.g. soil or solid absorbent) must be removed (i.e. excavated or swept up) and placed in an appropriate container to prevent further contamination. An accredited chemical waste contractor will be engaged to dispose of the material and to provide copies of Waste Transport Certificates and Certificates of Disposal for each consignment. Records will be kept of all certificates.</li> <li>Appropriate spill response equipment will be located at all refueling and liquid chemical handling locations including containment and recovery equipment</li> </ul>		Insignificant	
Environmental Aspect	EES Referral Reference	Additional Legislative	Source of Risk	Potential Impact	Untreated Likelihood	Untreated Consequence	Untreated Risk Score	Management Commitments	Treated Likelihood	Treated Consequence	
Impacts on local Amenity - Noise,	Is there a potential for exposure of a human	Environmental	Disturbance caused by the	Dust generation and propagation	Likely	Minor	M	Manage amenity impacts during construction in accordance with EPA	Unlikely	Minor	Rating L

Dust, Traffic Movement and Access during the construction phase	community to health or safety hazards, due to emissions to air or water or noise or chemical hazards or associated transport? Is there a potential for displacement of residences or severance of residential access to community resources due to the proposed development? Are non-residential land use activities likely to be displaced as a result of the project? Do any expected changes in non-residential land use activities have a potential to cause adverse effects on local residents/communities, social groups or industries?	•	Protection Act, 1970 EPA policy - Environmental Guidelines for Major Construction Sites. Air Quality Management 2001 Ambient Air Quality 1999	processed special spec	cifically: earing of etation nd urbance I movement replacement hicle and chinery vement mation of porary site	as a result of construction activities - impacting local residents, businesses and other local stakeholders  2. Noise emissions from construction activities and traffic movement impacting local residents, flora and fauna  -Fuel emissions as a result of machinery activities  3. Damage to local roads from heavy vehicle movement - impacting local residents.  4. Visual amenity - installation of pump stations impact local stakeholders view of surrounding environment.  5. Poor management of waste on-site  6. Fauna deaths as						policy -Environmental Guidelines for Major Construction Sites.  Minimise distance between clear and grade and trenching crews in order to maintain subsoil moisture  All machinery to be serviced as per manufacturers recommendations  Dust control measures should be implemented on site in accordance with adverse weather continency plan.  Avoid construction activities that have the potential to impact sensitive receptors during times of high dust generation and propagation i.e. dry, hot days with high winds.  Machinery to undergo regular maintenance to ensure noise levels are below EPA guidelines and that engine emissions are within thresholds.  Construction activities to occur within normal working hours (7am- 6pm Mon-Fri and 7am - 1pm Saturday (TBC)) to reduce impact to local residents.  Local roads are to be maintained (e.g. graded regularly) using appropriate equipment to ensure the quality of the road remains the same and allows for safe and normal use by local residents.  Mud tracked onto local roads must be cleaned to prevent damage to resident's vehicles and to maintain normal visual appearance.  Remove waste into designated bin each day before close of business. Maintain housekeeping vigilance on site. Reuse			
		•	Catchment and Land Protection Act, 1994 (CaLP Act) Crown land (Reserves) Act, 1978	•	Traffic use of unapproved access tracks Unauthorised access to properties	Use of unauthorised access tracks - disgruntled local stakeholders.  Unauthorised access to properties which many result in	Likely	Mi	inor	M	•	materials wherever possible Vehicles to adhere to speed limits (40km/hr on RoW; 10km/h past active work fronts) at all times to reduce dust, damage to local roads and fauna deaths. Topsoil stripping to be only just in front of trenching crew to maintain subsoil moisture and reduce dust generation. Signage to be placed on roads effected by dust, speed and vehicle movement restrictions during high dust conditions.  Land Access to all properties and roads/tracks to be approved by the landholder in advance of any track or property being entered. Property Access forms will contain land access content and will be kept on file for access by appropriate Staff when required.	Unlikely	Minor	L
						may result in disgruntled landowners, negative impacts to company reputation, legal action from landowner and delays to project delivery,									

	What are the more	1411: Noise From Industry in Regional Victoria (Oct 2011)  WINCE 822 In Jacobs Support Su	activities and traffic movement impacting local residents, flora and fauna	Likely	Minor	Attenuate and mitigate noise generation by design engineering infrastructure, where required.     Site specific noise assessment and modelling to assess proposed attenuation measures.     Ste planning to minimize noise generation.     Prior to construction and other noisy activities, landholders and owners of any adjacent sensitive places will be notified of the nature and expected duration of noisy activities.     Construction hours and operations will be in accordance approval conditions and requirements within 1411: Noise From Industry in Regional Victoria (Oct 2011)     Operators of construction equipment will be aware of potential noise impacts and be required to employ techniques and/or equipment to minimise noise emissions as applicable    Design   Minor   Labely   Labely
Impacts on local Amenity - Waste Management	<ul> <li>What are the main forms of waste that would be generated by the project facility?</li> <li>What level of greenhouse gas emissions is expected to result directly from operation of the project facility?</li> </ul>	IWRG 822.2:	Non-compliance	Likely	Minor	<ul> <li>Regular inspections of the project site</li> <li>Identify and use authorised waste collection facilities</li> <li>Ensure that a waste tracking system is in place to account for all site waste disposal</li> <li>Project inductions to cover appropriate waste disposal management including location of waste receiving areas</li> <li>All waste to be taken to stack site daily. All workers educated about the three R's of waste management. Bins to be monitored daily by HSE staff to reduce likelihood of over filling.</li> <li>The hierarchy of waste management will be applied on the project.</li> <li>Housekeeping on site will form part of project induction and will be reinforced consistently during the course of the project (via pre-start meetings and focused toolbox talks).</li> </ul>
Impacts on local Amenity - Noise, Dust, Waste, Traffic Movement and Access during the operational phase	What are the main forms of waste that would be generated by the project facility?     What level of greenhouse gas emissions is expected to result directly from operation of the project facility?		from construction activities and	Likely	Minor	All Project components shall be designed, constructed and maintained to Australian Standards and in accordance with Australian legislation. There will be a heavy emphasis on continued safe operation of all component parts of the project with several layers of engineering controls and continued monitoring and maintenance of the infrastructure and apparatus to ensure that the infrastructure is operated safely within its design limitations.      GB Energy will prepare an OEMP for all components of the project. The OEMP will focus on analyzing operational environmental risk. It will nominate commitments and control measures that will be used to ensure compliance with regulatory conditions and include procedures and work instructions focused on the protection of the environment from the continued operation of the infrastructure.      GB Energy will develop and maintain an ELL that will record all environmental threats and values to native vegetation within the pipeline comidor. The ELL will be

Gazette 18/9/1999  1411: Noise From Industry in Regional Victoria (Oct 2011)	4. Visual amenity - installation of pump stations impact local stakeholders view of surrounding environment. 5.Poor management of waste on-site 6. Fauna deaths as a result of impact	used to monitor and control localised soil stability, noxious weeds, pest animal species or other environmental threat. Any environmental values will be nominated and protected during operation of the GB Energy project. The ELL will be updated on a regular basis as new threats or values are identified and formally reviewed every five years.  • Any maintenance activity involving ground disturbance activity within an area containing a previously identified threat or
		, , , , , , , , , , , , , , , , , , ,
		Any maintenance activity involving
	with vehicles.	value will be thoroughly evaluated prior to
		site mobilisation. Control measures will be
		put into place to ensure the protection of
		the environmental asset(s). This could
		include mitigation measures such as
		scheduling the timing of works so as to fall
		outside of breeding season so as to
		minimise impact to fauna species.
Fire Prevention, Fuel & Chemical Management		

Environmental Aspect	EES Referral Reference	Additional Legislative Context		Source of Risk	Potential Impact	Untreated Likelihood	Untreated Consequence	Untreated Risk Score	Management Commitments	Treated Likelihood	Treated Consequence	Residual Risk Rating
Impacts from Fuel & Chemical Storage and Use	Is there a potential for exposure of a human community to health or safety hazards, due to emissions to air or water or noise or chemical hazards or associated transport?	• Country Authority 1958	Fire Act,	Storage of fuels and chemicals at the warehouse and on the RoW	Fuel and chemical spills on-site resulting in contamination of soil, groundwater, surface water or waterways.	Likely	Moderate	Н	<ul> <li>Ensure chemicals and fuels are stored and handled in accordance with Australian Standards (AS1940-2004 – 'The storage and handling of flammable and combustible liquids').</li> <li>Ensure chemicals and fuels are stored and handled in accordance with the relevant Safety Data Sheets.</li> <li>Ensure chemicals and fuels are not stockpiled within 100 metres of waterways.</li> <li>Ensure a spill kits are onsite and available for the duration of construction. All workers trained in the use of spill kits</li> <li>Implement an emergency response procedure in the event of a chemical or fuel spill near waterways.</li> <li>All chemicals stored in bunded containers</li> <li>Chemicals onsite to kept to a minimum.</li> <li>Regular inspections of facilities and work crews.</li> </ul>		Minor	L
Fire Prevention	Are there any other activities in the vicinity of the proposed project that have a potential for cumulative effects?	• Country Authority 1958	Fire Act,	Incorrect storage of fuels and hydrocarbons adjacent to uncontrolled ignition source.  Construction activities being undertaken during times of high fire danger	Incidence of fire on-site causing damage to land, property and biodiversity.	Likely	Moderate	Н	<ul> <li>Induction of employees and contractors prior to commencement of works of no-go zones due to high risk of flammability.</li> <li>Fire extinguishers will be provided and validated in all construction vehicles.</li> <li>Smoking will only be permitted in designated smoking areas at the construction depot and waste disposal sites.</li> <li>The construction ROW and surrounding area will be essentially free of combustible material prior to high risk construction activities such as welding or grinding.</li> <li>Vehicles will be regularly checked to ensure that combustible materials such as grass and debris do not build up in areas where ignition may occur.</li> <li>Diesel fueled vehicles will be used where practicable."</li> <li>Workers informed on the use of spill kits and other environmental mitigation equipment at inductions and toolboxes.</li> </ul>		Minor	L

Emergency	Are there any other	<ul> <li>Country F</li> </ul>	e Safety incident	Adverse weather	Likely	Moderate	M	HSE staff to be regular contact with all	Unlikely Minor	L
Events	activities in the vicinity	Authority A	t, causing	event (dust storm,				emergency services with app used to		
	of the proposed	1958	environmental	flash flood,				identify any possible hazards.		
	project that have a		damage e.g. car	bushfire, severe						
	potential for		fire	heat wave)						
	cumulative effects?									
Reinstatement	<del></del>									

Environmental Aspect	EES Referral Reference	Additional Legislative Context	Source of Risk	Potential Impact	Untreated Likelihood	Untreated Consequence	Untreated Risk Score	Management Commitments	Treated Likelihood	Treated Consequence	Residual Risk Rating
Rehabilitation of ground disturbance	Are non-residential land use activities likely to be displaced as a result of the project	Environmental Protection Act, 1970	Reinstatement works not within specification or incomplete	Landholder (key stakeholder) discontent Poor reestablishment of Environmental Control Points that have been disturbed leading to negative environmental outcomes	Possible	Moderate	M	<ul> <li>GB Energy contractor(s) to comply with contractual conditions with regard to reinstatement following completion of construction activity on each property and land parcel.</li> <li>CEMP: Specific management requirements and methodologies designed to establish parameters for reinstatement shall be written into a CEMP for each stage of the Project, in consultation with DELWP, relevant Shire (s) and the West Gippsland CMA and then submitted to and endorsed by the Secretary of the Department administering the Conservation, Forests and Lands Act 1987.</li> <li>Ensure stable landform is re-established and landholder's have been consulted prior to completion.</li> <li>Ensure adequate monitoring post-construction to ensure ground cover reestablishment and satisfactory rehabilitation.</li> </ul>		Minor	L