PROJECT:	**PELICAN POINT EXTENSION**																		
ACTIVITY:	**PIPELINE ACTIVITY**	Extending Pipeline, directional drill under Port River, meter station																	
PIRSA FILE:	**SR 28/1/344**																		
ASSESSOR:	**ANGELA CRIMES**																		
		Significant impacts specific to the Pelican Point Extension have been assessed in this assessment only. General impacts associated with construction activity were assessed in original PL 13 application assessment.																	
				PREDICTABILITY						**MANAGEABILITY**									
REF	**PIPELINE ACTIVITY**	**POTENTIAL EVENT/IMPACT**	**POTENTIAL CONSEQUENCES**	SIZE	SCOPE	DURATION	FREQUENCY	STAKEHOLDERS	SIGNIFICANCE	AVOIDANCE	PROBABILITY	DURATION	SIZE AND SCOPE	CUMULATIVE EFFECTS	STAKEHOLDERS	SIGNIFICANCE	**COMMENTS**	**ENVIRONMENTAL SIGNIFICANCE**
References from SEA Gas project EIR October 2001 in Italics		**NATURAL ENVIRONMENT**																
		Soil																
4.26.2, 6.3	General construction activities	Exposure of acid sulphate soils	Poor vegetation regrowth	M	H	H	H	H	2	No	Low	Short	Small	No	Low	1	Procedures for managing construction in acid sulphate soils will be developed and included in the EMP, based on sampling undertaken prior to construction.	**Low**
4.26.2, 6.3		Exposure of contaminated soil	Poor vegetation regrowth	M	M	M	M	M	3	No	Low	Short	Small	No	Low	1	Procedures for managing construction in contaminated soil will be developed and included in the EMP, based on sampling undertaken prior to construction. Will be developed in consultation with the EPA.	**Low**
		Air																
	Construction and Operation	See previous assessment																
		Surface Water																
4.3, *7.2, 7.3, 11.7*	General construction activity	Contamination of surface water by spills of fuel or chemicals	Lowered quality of surface waters	M	M	H	M	H	2	No	Med	Short	Small	No	No	2	Precautions to prevent/contain spills will be developed and included in the EMP, such as spill response equipment being located on site prior to work commencement	**Low**
2.4, *7.3*	Directional Drilling	Drill mud seepage into Port River	Increased turbidity of surface waters	M	H	H	M	M	2	Yes						1	River crossing impacts will be managed with measures such as: Locating entry and exit points away from banks; a 40 m buffer to river. On exit, mud contained in mud pit. If required, silt fences will be used. Site will be rehabilitated as quickly as possible after activity completion. Commitment to no discharges into river.	**Low**
		See previous assessment for other impacts																
4.3, *7.2, 7.3*	Trench dewatering	Release of sediment, acid sulphate leachate into watercourses	Lowered water quality	M	H	H	H	H	1	No	Med	Short	Small	No	No	2	Care will be taken to ensure that disposal of water pumped from the trench is in accordance with EPA discharge standards. Procedures to trap sediment, dispose of hyper-saline water and neutralise acid sulphate leachate will be described in the EMP.	**Low**
		Ground Water																
4.3, *7.1, 11.7*	General construction activity	Contamination of groundwater by spills of fuel or chemicals	Lowered quality of surface waters	M	M	H	M	H	2	No	Med	Short	Small	No	No	2	Precautions to prevent/contain spills will be developed and included in the EMP, such as spill response equipment being located on site prior to work commencement	**Low**
7.1, 6.2	Trenching	Contamination of groundwater by leachate from acid sulphate soils	Lowered groundwater quality	M	M	H	M	H	2	Yes	Low	Med	Small	No	No	3	Procedures for the management of acid sulphate soils will be included in the EMP. These procedures will include neutralising the leachate with lime if required.	**Low**
7.1	Restoration and rehabilitation	Alteration of groundwater flows	Shallow groundwater may flow along the trenchline (if poorly compacted), or be blocked (if too compacted)	M	M	H	M	H	2	Yes	Low	Short	Small	No	No	1	Careful management of trench backfilling operations will be required to ensure that compaction is appropriate. Trench plugs may be needed in some areas to prevent longitudinal flow.	**Low**
		Flora																
4.4, *9*	Clear and grade	Removal of disturbed remnant vegetation	Loss of biodiversity	H	H	M	H	H	2	No	Med	Short	Small	Low	Low	2	Some impact on small patch of degraded samphire vegetation south-west of Mutton Cove. Pipeline aligned to avoid significant vegetation, particularly significant vegetation at Mutton Cove. Any vegetation removed will be respread with stockpiled topsoil. ROW will be reduced around degraded samphire vegetation. Port Adelaide Enfield Coastcare Officer consulted regarding this issue.	**Low**
		Fauna																
4.4, *9*	General Construction Activity	Impacts on fauna addressed in previous assessment		H	H	H	H	H	1	Yes	Low	Short	Small	Low	No	1	No impacts expected as very little fauna on site.	**Low**
		SENSITIVE AREAS																
		National Parks																
	Construction and operation	None	None															
		World Heritage Areas																
	Construction and operation	None	None															
		Registered areas																
	Construction and operation	None	None															
		SOCIAL ENVIRONMENT																
		Public Safety																
4.6.2, *11.5*	Construction and Operation	Risk to recreational users from construction activities	Injury to public	H	H	H	H	M	2	Yes	Low	Short	Small	No	No	1	See section 11.5 of SEA Gas Pipeline EIR October 2001 for how risks are addressed through AS 2885 pipeline risk assessment process and reduced to as low as reasonably practicable.	**Low**

PROJECT:	**PELICAN POINT EXTENSION**																		
ACTIVITY:	**PIPELINE ACTIVITY**	Extending Pipeline, directional drill under Port River, meter station																	
PIRSA FILE:	**SR 28/1/344**																		
ASSESSOR:	**ANGELA CRIMES**																		
		Significant impacts specific to the Pelican Point Extension have been assessed in this assessment only. General impacts associated with construction activity were assessed in original PL 13 application assessment.																	

				PREDICTABILITY						**MANAGEABILITY**								
REF	**PIPELINE ACTIVITY**	**POTENTIAL EVENT/IMPACT**	**POTENTIAL CONSEQUENCES**	SIZE	SCOPE	DURATION	FREQUENCY	STAKEHOLDERS	SIGNIFICANCE	AVOIDANCE	PROBABILITY	DURATION	SIZE AND SCOPE	CUMULATIVE EFFECTS	STAKEHOLDERS	SIGNIFICANCE	**COMMENTS**	**ENVIRONMENTAL SIGNIFICANCE**
		Cultural Heritage																
4.5, *10*	Access, clear and grade	Impact on shallow artefact scatters or subsurface material	Loss of cultural heritage	H	M	H	M	M	2	No	Med	Short	Small	Low	Low	2	Surveys conducted by a qualified archaeologist and representatives of the Kaurna Meyunna Association and European heritage investigations. Indigenous heritage impacts are possible, so monitoring will be carried out during construction by local representatives.	**Low**
4.5, *10*	Trenching	Impact on shallow artefact scatters or subsurface material	Loss of cultural heritage	H	M	H	M	M	2	No	Med	Short	Small	Low	Low	2	Surveys conducted by a qualified archaeologist and representatives of the Kaurna Meyunna Association and European heritage investigations. Indigenous heritage impacts are possible, so monitoring will be carried out during construction by local representatives.	**Low**
		Community Health																
4.2, *6.2, 6.3*	Trenching	Exposure of acid sulphate soils	Risks to public health	M	H	H	H	H	2	No	Low	Short	Small	No	No	2	Procedures for managing construction in acid sulphate soils will be developed and included in the EMP.	**Low**
4.2*6.2, 6.3*	Trenching	Exposure of contaminated soil	Risks to public health	M	M	M	M	M	3	No	Low	Short	Small	No	Low	1	Procedures for managing construction in contaminated soil will be developed and included in the EMP, based on sampling undertaken prior to construction. Will be developed in consultation with the EPA.	**Low**
		ECONOMIC ENVIRONMENT																
		Third party Infrastructure																
11.2	Construction and Operation	Addressed in previous assessment																