



**2002 ANNUAL REPORT**

**ON**

**PRELIMINARY SURVEY LICENCE 8**

**COOPERS LATERAL PIPELINE**

**AUGUST 2002**

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## APPENDIX A: STATEMENT OF ENVIRONMENTAL OBJECTIVES

# 1 SUMMARY

This report is submitted in accordance with the requirements of Preliminary Survey Licence (PSL) 8 and the SA Petroleum Regulations. The Coopers Lateral Pipeline PSL was granted to Epic Energy.

This report reviews the activities carried out under PSL 8 during 2001-2002. Epic Energy has no further preliminary survey activities planned. In accordance with the regulations an assessment is provided with regard to the *PIRSA Statewide Statement of Environmental Objectives (SEO) for Pipeline Preliminary Survey Activities in South Australia* (October 2001), refer Appendix A, and project specific additional requirements. Additional requirements for the Coopers Lateral PSL 8 related to the submission of a contaminated soil disposal plan subsequent to delineation testing. The aim of the plan was to identify the location of contamination, soil disposal options and disposal impact mitigation measures

The Coopers Lateral Pipeline survey corridor was located within the industrial area of Wingfield and Regency Park. The proposed Coopers Lateral Pipeline route was to commence at the Moomba-Adelaide Gas Pipeline south of Salisbury Highway, Wingfield, continue south along drainage reserve and terminate at a meter station adjacent to the Coopers Brewery site.

## 2 ACTIVITIES UNDERTAKEN IN 2001-2002

### 2.1 Landowner Contacts

An external contacts consultation database was maintained for landholder/user and stakeholder consultation.

Landowner and user consent was obtained prior to survey activities, both in writing and through telephone communications. All owners and current landusers were informed of survey periods, and access coordinated as appropriate. In the case of the Sunnybrae Pony Club (landusers) preliminary survey activities were organised in consultation with the Club President and occurred during Club opening hours whilst the Club President was in attendance.

### 2.2 Heritage Survey

An assessment of Aboriginal and European cultural heritage values of the project area was undertaken by Vivienne Wood, a qualified archaeological consultant, on the 17<sup>th</sup> December 2001.

The entire project area, including both sides of the drainage reserve, wetlands and private access road reserves were surveyed. A combination of pedestrian and vehicular survey was undertaken. Representatives of the Kaurna Meyunna Inc. inspected the entire project area including, drainage reserve, wetlands and private access road reserves.

No excavation was required.

### 2.3 Flora Fauna Survey

An assessment of the flora and fauna of the proposed alignment was undertaken on 17<sup>th</sup> December 2001 by Ecos Consulting. Vegetation and habitat along the length of the proposed alignment were inspected, assuming a right-of-way of 25m for pipeline installation.

Plant species were recorded on or near the pipeline easement.

## 2.4 Contaminated Soil Management

To determine the extent and level of polycyclic aromatic hydrocarbon (PAH) contamination, Egis Consulting carried out a contamination delineation assessment. The aim of the delineation assessment was to determine the lateral and vertical extent of sub-surface soil contamination. Dial Before You Dig processes were observed as part of these survey activities.

Subsequent to this process a Soil Disposal Plan was developed and submitted to PIRSA with PL documents. The plan outlined the location of soil contamination, soil disposal options and disposal impact mitigation measures.

## 2.5 Pipeline Survey

Epic Energy personnel carried out preliminary visual pipeline route survey from December 2001 to January 2002.

Survey works were carried out in January 2002. Markers were installed along the Barker Inlet to Grand Junction Road section of the route.

# 3 COMPLIANCE ISSUES

Most of the environmental objectives outlined in the *PIRSA Statewide SEO for Pipeline Preliminary Survey Activities in South Australia* (October 2001) were achieved for the Coopers Lateral PSL 8. Any comments are outlined in Appendix A. The environmental impact of survey activities was minimised and appropriate consultative processes observed. The additional project requirement for submission of a contaminated soil disposal plan was complied with. There was no risk to the public from survey activities.

The following non-compliance issues occurred:

- Under the *PIRSA Statewide SEO for Pipeline Preliminary Survey Activities in South Australia* (October 2001) Objective 13, to minimise the risk of fire, fire extinguishers and/or knapsacks are to be kept in all vehicles. This did not occur for all vehicles involved in Coopers Lateral preliminary survey works.
- Under the *PIRSA Statewide SEO for Pipeline Preliminary Survey Activities in South Australia* (October 2001), S2.3, Conditions and Requirements, a list of landowners, likely to be affected by preliminary survey activities shall be submitted to PIRSA prior to any work being undertaken. This did not occur.
- Under Section 4.1, Awareness Program, of the *PIRSA Statewide Environmental Impact Report for Pipeline Preliminary Survey Activities in South Australia* (October 2001) personnel involved with field based preliminary survey activities will be provided with a copy of Table 1 and 2 of the document. This did not occur.

## 3.1 ACTIONS TO RECTIFY NON-COMPLIANCE

The following actions were undertaken or are proposed to rectify identified non-compliance:

- Due to the location of the project area within metropolitan Adelaide and access from major roads fire extinguishers were not required for each vehicle. Vehicles will carry fire extinguishers as appropriate for subsequent projects.
- Landowners were identified within the Pipeline Licence Environmental Impact Report submitted in January 2002. Landowners who were likely to be affected by PSL activities are listed as follows:
  - Crown Lands SA

- City of Port Adelaide Enfield Council
  - Australian Rail Corporation Ltd
  - Commissioner of Highways; and
  - National Rail Corporation Ltd.
- To ensure compliance with Section 4.1, Awareness Program, of the *PIRSA Statewide Environmental Impact Report for Pipeline Preliminary Survey Activities in South Australia* (October 2001) personnel involved with future project field based preliminary survey activities will be provided with a copy of Table 1 and 2 of the document.

## **4 AUDITS**

While no external audits of PSL activities were carried out, a review against the SEO has been carried out as part of this Annual Report. Refer Appendix A.

## **5 REPORTS GENERATED IN 2001-2002**

- An Annual Report for PSL 8 (this document) was generated in accordance with the requirements of the Petroleum Act and Regulations 2000.

## **6 REPORTED INCIDENTS**

There were no reported incidents associated with PSL activities in 2001-2002.

## **7 STATEMENT OF EXPENDITURE**

**CONFIDENTIAL**

## Appendix A

### Statement of Environmental Objectives

## Review of Declared Objectives

OBJECTIVE	GOAL(S)	COMMENT
1. To minimise disturbance to landowners/managers.	<ul style="list-style-type: none"> <li>• The project has a nominated person with specific responsibility for maintaining contact with all potentially affected landowners/managers.</li> <li>• All landowners/managers are consulted prior to preliminary survey activities and their specific requirements are recorded and addressed appropriately.</li> <li>• All reasonable landowner requirements are incorporated into management strategies.</li> <li>• Landowners/managers are provided with information regarding the scope, schedule and duration of preliminary survey activities.</li> <li>• The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less).</li> <li>• Landowner complaints are recorded and reported to the licensee.</li> </ul>	<ul style="list-style-type: none"> <li>• A lands officer was appointed.</li> <li>• All landholders were informed regarding survey activity periods, and any discussed management requirements followed.</li> <li>• No landholder complaints were recorded</li> <li>• A list of landholders was not submitted to PIRSA prior to PSL activities as outlined in Statewide SEO, S2.3, Conditions and Requirements. Refer sections 3 and 4.</li> <li>• No other issues aside from those listed above.</li> </ul>
2. To minimise damage to crops and pasture.	<ul style="list-style-type: none"> <li>• The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less).</li> <li>• Existing tracks are used where available.</li> <li>• The area utilised for excavation is restricted to the smallest practicable (ie. approx. 20 m<sup>2</sup> per site).</li> <li>• Disturbance is restricted to the proposed construction right-of-way where practicable (right-of-way width is likely to vary from between 10 to 25 metres).</li> <li>• Topsoil is kept separate from subsoil.</li> <li>• The soil profile and contours are restored to as near as possible to their undisturbed state as soon as practicable and to the landowners satisfaction.</li> <li>• Landowner complaints are recorded.</li> </ul>	<ul style="list-style-type: none"> <li>• No crops or pastures were impacted activities.</li> <li>• No non-compliance issues</li> </ul>

OBJECTIVE	GOAL(S)	COMMENT
3. To minimise disturbance to stock	<ul style="list-style-type: none"> <li>• The number of site visits are restricted to as few as practicable (under normal circumstances this will be <math>\leq 4</math>).</li> <li>• Landowners/managers are provided with adequate prior notice of proposed land access (as per requirements of Part 10 of the Act).</li> <li>• Vehicles are driven at appropriately slow speeds to avoid undue disturbance.</li> <li>• Gates are left as found.</li> <li>• Landowner complaints are recorded.</li> </ul>	<ul style="list-style-type: none"> <li>• No landuser complaints and all requirements observed.</li> <li>• No non-compliances.</li> </ul>
4. To prevent disturbance to native fauna	<ul style="list-style-type: none"> <li>• The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less).</li> <li>• Vehicles are driven at appropriately slow speeds to avoid undue disturbance.</li> <li>• Plan / rationalise preliminary survey activities to ensure the number of site visits is as few as practicable.</li> <li>• Clearing native vegetation as part of survey activities avoided.</li> <li>• Excavation holes checked regularly for wildlife.</li> <li>• Undertake ecological survey prior to geo-technical and land/cadastral survey and identify any "no-go" areas.</li> </ul>	<ul style="list-style-type: none"> <li>• No sensitive native flora or fauna areas were present.</li> <li>• No non-compliance issues.</li> </ul>
5. To minimise dust generation	<ul style="list-style-type: none"> <li>• The number of site visits are restricted to as few as practicable (under normal circumstances this will be <math>\leq 4</math>).</li> <li>• Vehicles are driven at appropriately slow speeds to avoid undue disturbance.</li> </ul>	<ul style="list-style-type: none"> <li>• Access was generally bitumen roads, unsealed area access tracks (for approximately 0.5 km) or pedestrian.</li> </ul>

OBJECTIVE	GOAL(S)	COMMENT
6. To avoid the introduction of weeds or disease	<ul style="list-style-type: none"> <li>• Identify local weed and disease management issues prior to the commencement of preliminary survey activities.</li> <li>• Management procedures in place to prevent the spread of identified weeds/diseases/pathogens.</li> <li>• Ensure all equipment and vehicles are free of soil and vegetative matter prior entry to and exit from properties and roadsides.</li> <li>• The number of site visits are restricted to as few as practicable (under normal circumstances this will be <math>\leq 4</math>).</li> <li>• All landowners/managers are consulted prior to preliminary survey activities and their specific requirements are recorded.</li> <li>• Planning has taken account of season / climates, as some pathogen born diseases (eg. dieback) are transported during particular conditions.</li> </ul>	<ul style="list-style-type: none"> <li>• Weeds are common along the drain reserve.</li> <li>• Vehicles did not enter the wetlands, and remained on sealed road for most of the route.</li> <li>• Unsealed access tracks for 0.5km used between Cormack and Grand Junction Road.</li> <li>• No local weed management requirements. No disease present.</li> </ul>
7. To avoid or minimise damage to vegetation and wildlife habitat.	<ul style="list-style-type: none"> <li>• Clearing native vegetation as part of land survey is prevented where avoidable in native vegetation areas. Where demonstrated to be unavoidable a location specific environmental management plan is developed and implemented.</li> <li>• Soil excavations are not conducted in areas of native vegetation.</li> <li>• Appropriately trained and experienced personnel undertook survey.</li> <li>• Any sites of significance (due to size, density and/or presence of threatened species) are recorded for subsequent avoidance during construction.</li> <li>• Any areas of clearance are rehabilitated using local seed sources, where available, and appropriate methods.</li> <li>• Preliminary survey activities not conducted within any areas of intact vegetation without prior consultation with relevant government departments.</li> <li>• Samples of native vegetation are collected by qualified botanists or appropriately trained and experienced personnel under appropriate permits from the Department of Environment and Heritage.</li> </ul>	<ul style="list-style-type: none"> <li>• No clearance of native vegetation.</li> <li>• Soil delineation bores not taken in remnant native vegetation area (none along route).</li> <li>• Personnel appropriately trained.</li> <li>• Non non-compliance issues</li> </ul>

OBJECTIVE	GOAL(S)	COMMENT
8. To avoid damage or unnecessary disturbance to cultural heritage sites.	<ul style="list-style-type: none"> <li>• Appropriately trained and experienced personnel undertook survey.</li> <li>• The proponent has a mechanism in place to appropriately report and respond to any sites discovered during pipeline survey activities.</li> <li>• Any sites are recorded for subsequent avoidance during construction.</li> </ul>	<ul style="list-style-type: none"> <li>• Heritage consultant and Aboriginal representatives participated in heritage survey.</li> <li>• No sites identified during survey.</li> </ul>
9. To minimise visual impacts	<ul style="list-style-type: none"> <li>• Marker pegs are limited to those essential for identifying the proposed alignment.</li> <li>• Excavations are restricted to areas away from general public view, where practicable.</li> <li>• Excavations are restored as soon as practicable.</li> </ul>	<ul style="list-style-type: none"> <li>• Survey markers only used to identify first quarter of proposed alignment.</li> <li>• Excavations restricted to soil delineation bores. Land not accessible to public.</li> </ul>
10. To minimise soil disturbance	<ul style="list-style-type: none"> <li>• The area of excavation is restricted to the smallest practicable (approx. 20m<sup>2</sup> per site).</li> <li>• Disturbance is restricted to the proposed construction right-of-way where practicable (right-of-way width is likely to vary from between 10 to 25 metres).</li> <li>• Topsoil is kept separate from subsoil.</li> <li>• Vehicles use existing road tracks where practicable.</li> <li>• The soil profile and contours are restored to as near as possible to their undisturbed state as soon as practicable and to the landowners satisfaction.</li> </ul>	<ul style="list-style-type: none"> <li>• No activities occurred outside proposed ROW or access track areas.</li> <li>• A soil disposal plan was submitted to PIRSA as part of PL application.</li> <li>• Port Adelaide Enfield Council was provided with a summary of relevant soil contamination results.</li> </ul>
11. To minimise impact of surface water, groundwater and drainage patterns.	<ul style="list-style-type: none"> <li>• Access tracks are located to avoid any diversion of water during flood inundation.</li> <li>• Areas of inundation, which may result in bogging, or creation of heavy wheeltrack rutting (more than 200mm deep) are avoided.</li> <li>• Vehicles parked away from watercourses or sensitive ecological environments (minimum 50m).</li> </ul>	<ul style="list-style-type: none"> <li>• No areas of inundation traveled upon.</li> <li>• Vehicles parked upon roadsides and existing access tracks.</li> </ul>
12. To minimise the impact on the environmental of waste handling and disposal.	<ul style="list-style-type: none"> <li>• All rubbish is removed from survey site</li> <li>• All vehicle oil spills are managed appropriately.</li> </ul>	<ul style="list-style-type: none"> <li>• No spills occurred</li> <li>• No rubbish left within survey area.</li> <li>• A soil disposal plan was submitted to PIRSA as part of PL application.</li> <li>• Port Adelaide Enfield Council was provided with a summary of relevant soil contamination results.</li> </ul>

OBJECTIVE	GOAL(S)	COMMENT
13. To minimise the risk of fire.	<ul style="list-style-type: none"> <li>• Diesel vehicles are used where practicable.</li> <li>• Fire extinguishers and/or knapsacks are kept in all vehicles.</li> <li>• Vehicles are not parked on, or driven through, long grass where avoidable.</li> <li>• Requirements of the landowner/manager are met.</li> <li>• All access to be prohibited on days declared Total Fire Ban.</li> <li>• All requirements of the Country Fires Act 1989 have been met.</li> <li>• Personnel do not smoke while conducting survey activities.</li> </ul>	<ul style="list-style-type: none"> <li>• Not all vehicles fitted with fire extinguishers as route located within metropolitan industrial area.</li> <li>• No smoking occurred.</li> <li>• All vehicles parked upon existing access tracks or bitumen roads.</li> <li>• No other issues.</li> </ul>
14. To minimise erosion	<ul style="list-style-type: none"> <li>• Any areas of erosion are rehabilitated or managed to prevent further erosion.</li> <li>• The soil profile and contours are restored to as near as possible to their undisturbed state as soon as practicable and to the landowners satisfaction.</li> <li>• Any areas of excavation have been restricted to the smallest practicable.</li> </ul>	<ul style="list-style-type: none"> <li>• No issues.</li> </ul>