

## Appendix E Archaeological Assessment



20 August 2014

John Fisher **Principal Consultant** EnviroPlan Pty Ltd john.fisher@enviroplan.com.au

Dear John

## Re: Due Diligence Advice for Aboriginal archaeological heritage for the Horsley Park Meter Station upgrade – FINAL Our Ref: Matter # 18669

Jemena Limited (Jemena) proposes to upgrade to the existing natural gas facility at Horsley Park, New South Wales (the Horsley Park Meter Station). This letter documents Aboriginal heritage due diligence advice for the proposed works. It has been prepared under the requirements of the Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales (DECCW 2010) and fulfils Jemena's due diligence obligations under this code. This assessment has been written by Samantha Gibbins and reviewed by Lyn O'Brien (Biosis Pty Ltd).

## **Project Area**

The Horsley Park Meter Station is located at 194-202 Chandos Road, Horsley Park, on Lot 3 DP 1002746 (Figure 1). The Project Area encompasses the boundaries of the existing Horsley Park Meter Station, as shown in Figure 2, and is located within the Fairfield Local Government Area (LGA). The Project Area falls under the State Environmental Planning Policy (Western Sydney Parklands) 2009.

## **Project Background and Proposed Impacts**

The Horsley Park Meter Station was constructed in 2000. Required upgrades include increasing the capacity of the facility through the installation of a new gas regulator, metering equipment, gas heating and filter equipment, and associated pipework. The State Environmental Planning Policy (State and Regional Development) 2011 is applicable and the proposed works will be assessed as State Significant Infrastructure under Part 5.1 of the Environmental Planning and Assessment Act 1979 (EP&A Act). This letter report will form part of the supporting documentation for a Preliminary Environmental Impact Assessment as part of the approvals process.

Specifically, the proposal would include the following:

- Removal of the existing oil separator and associated pipework; •
- Installation of two new gas filters;
- Installation of new gas heat exchangers; •
- Installation of hot water heaters and associated building;

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- Installation of a new gas metering unit;
- Installation of a new gas regulator and noise attenuating enclosure; and
- Associated above and belowground connecting pipework.

Disturbances to the ground surface would be undertaken in order to:

- Create trenches for belowground pipework;
- Create trenches for belowground service and telemetry conduits;
- Create concrete pad foundation for gas conveyance control equipment; and
- Create footings and foundations for plinths to support aboveground pipework.

Typical plant and equipment required to carry out the proposal includes, but is not limited to, excavators, back hoes, skid loaders, delivery trucks, dump trucks, mobile cranes, concrete trucks and concrete pumps.

## **Project Objectives**

The following is the summary of the major objectives of the due diligence investigation:

- Identify Aboriginal objects and Places known to exist within the Project Area through a search of the Aboriginal Heritage Information Management System (AHIMS) register, maintained by the Office of Environment and Heritage (OEH);
- Consult with the Deerubbin Local Aboriginal Land Council (LALC);
- Undertake a field inspection to relocate any previously recorded sites and to assess previous disturbance and the potential for Aboriginal heritage to be present;
- Record and assess sites identified during the field inspection in compliance with the guidelines issued by the OEH;
- Identify potential impacts to all identified Aboriginal sites and Places based on potential ground disturbance from the works; and
- Make recommendations to minimise or mitigate potential impacts to cultural heritage values within the Project area.

## Legislation

The investigation has been carried out under the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales* (DECCW 2010). The code sets out steps which individuals and organisations need to take to determine if:

- Aboriginal objects are, or are likely to be present in the area; and
- The proposed activity will harm Aboriginal objects.

If it is determined through the due diligence assessment that Aboriginal objects are present, or are likely to be present, and the proposed activity will harm Aboriginal objects, the code specifies that:

• Further investigation and consultation under the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010) and the *Aboriginal cultural heritage consultation requirements for proponents 2010* (DECCW 2010) is required; and



• An Aboriginal Heritage Impact Permit (AHIP) application is also required if Aboriginal objects or Places are present and will be harmed.

## **Investigation Methodology & Results**

## **Community Consultation**

Consultation with the Aboriginal community is not a formal requirement of the Due Diligence process, however it is recognised in NSW that Aboriginal people are the primary determinants of the significance of their cultural heritage. A landscape may hold intangible values that can be assessed only by the Aboriginal community.

The Project Area falls within the boundaries of the Deerubbin LALC. Steve Randall, Site Officer at Deerubbin LALC, attended the field inspection on 4 August 2014. The draft report was sent to Deerubbin LALC for comment on 19 August 2014. Deerubbin LALC advised Biosis that they have no objections to the proposed upgrade of the Horsley Park Meter Station on the grounds of Aboriginal cultural heritage (a copy of their report is attached at Appendix 2). A copy of this final report will be provided to Deerubbin LALC for their records.

## **AHIMS Search**

The OEH maintains a database of Aboriginal sites within NSW under Part 6 of the NSW *National Parks and Wildlife Act 1974*. Aboriginal objects and places in NSW are legally required to be registered on the AHIMS register.

A search of the OEH AHIMS register was conducted on 1 August 2014 (Client Service ID 143393). The search identified six previously recorded Aboriginal archaeological sites within the vicinity of the Project Area. Details of these sites are provided in Table 1 and their locations are shown in Figure 2 (site 45-5-2567) and Figure 3. These figures contain sensitive cultural information and should not be made public.

AHIMS Site No.	Site Name	Site Features
45-5-2567	DLC1	Artefact (Open Camp Site)
45-5-0866	TPP 1; Prospect Reservoir	Artefact (Open Camp Site)
45-5-0745	WDD 6	Artefact (Open Camp Site)
45-5-2796	WSO-IF-2	Artefact (Isolated Find)
45-5-3082	Horsley Dr PAD	Potential Archaeological Deposit (PAD)
45-5-3624	EC132KV4	Artefact (Open Camp Site)

#### Table 1: AHIMS sites present within the vicinity of the Project Area.

The predominant site types registered in the search area are Artefact scatters (n=5). One instance of PAD has also been recorded. No previously recorded sites are located within the Project Area.

Site 45-5-2567 is an artefact scatter that is located 20-30 metres to the west of the western boundary of the Project Area (Figure 2). The site was recorded in 1999 during a survey of the proposed Eastern Gas Pipeline Route. As recorded on the site card, the site comprised two silcrete artefacts (one flake and one core) located on a vehicle track in a heavily disturbed market garden area. It was determined to be unlikely that other archaeological material was present due to the high level of disturbance. It is noted on the site card that Consent to Destroy with salvage was applied for; however, the site is currently recorded on the AHIMS



register with a status of 'valid'. A copy of site card 45-5-2567 is attached to this report. This site card contains sensitive cultural information and should not be made public.

No other previously recorded sites are located within the immediate vicinity of the Project Area. The next nearest site (45-5-3624) is an artefact scatter that is located approximately 900 metres to the east of the Project Area.

## **Field Inspection**

An inspection of the Project Area was undertaken on 4 August 2014, attended by Samantha Gibbins (Biosis) and Steve Randall (Deerubbin LALC). John Fisher (EnviroPlan) also attended the field inspection and provided information about the proposed works.

The objectives of the field inspection were to:

- Assess the previous disturbance to the Project Area;
- Assess the potential of the Project Area to possess intact Aboriginal heritage; and
- Locate any Aboriginal objects or Places present within the Project Area.

## Results of the site survey

## Survey Coverage and Visibility

The accessible sections of the Project Area were surveyed. Ground surface visibility was generally very low due to dense grass cover and the presence of paved surfaces, buildings and meter station infrastructure (Plate 1 and Plate 2). Odd exposures were evident around the bases of trees and along fencelines, and these were all inspected.



Plate 1: Dense grass cover through the Project Area, restricting ground surface visibility. View to west.



Plate 2: Paved surfaces, buildings and infrastructure within the Project Area. View to SW.

## <u>Landform</u>

The Project Area is located on a very gently undulating creek flat, approximately 70 metres to the east of Eastern Creek. The land slopes very gently downwards from south to north, and also westwards towards the creek.



## <u>Sites Located</u>

No Aboriginal objects were located within the Project Area.

## <u>Disturbance</u>

The entire Project Area has been highly disturbed through the installation of the existing gas meter station and associated infrastructure, including buildings; paved roads and surfaces; fences; and underground pipelines and cables (Plate 3 and Plate 4). It is evident that extensive excavation and earth movement has taken place across the whole area, with the main facility located on a levelled artificial terrace (Plate 5 and Plate 6). The original vegetation has been completely cleared from within the Project Area.



Plate 3: Buildings and paved roads within the Project Area. View to south.



Plate 4: Underground cables and pipelines within the Project Area. View to west.



Plate 5: Previous excavation and earth movement within the Project Area (south-west corner). View to NW.



Plate 6: Main facility within the Project Area located on a levelled artificial terrace. View to SE.

#### Archaeological Potential

The proposed works are located in an area of generally high potential for Aboriginal sites, less than 100 metres from Eastern Creek. A previously recorded Aboriginal site (45-5-2567) is located 20-30 metres to the west of the western boundary of the Project Area. However, at the time of recording it was determined to be unlikely that other archaeological material was present due to the high level of disturbance. No Aboriginal objects were detected during the current field inspection. The current Project Area has been subject to high levels of ground surface disturbance through the installation of the existing gas meter



station and associated infrastructure. There is a correspondingly low potential for intact Aboriginal archaeology to be present within the Project Area.

## Impact Assessment

- The proposed works will involve disturbances to the ground surface in order to create trenches for belowground pipework; create trenches for belowground service and telemetry conduits; create concrete pad foundations for gas conveyance control equipment; and create footings and foundations for plinths to support aboveground pipework.
- No known Aboriginal objects or Places will be impacted by the proposed works.
- The Project Area has been subject to high levels of disturbance through previous activity (see above discussion on disturbances).

The Code provides a flowchart composed of six questions to identify the presence of, and potential harm to Aboriginal objects within the Project Area. These questions were applied to the investigation methodology (Chart 1).

## Discussion

Although the Project Area is located in an area of generally high potential for Aboriginal sites, the high levels of previous ground surface disturbance mean that there is a low potential for intact Aboriginal archaeology to be present within the Project Area. No Aboriginal objects or areas of archaeological potential were identified within the Project Area.

Work can proceed with caution, with the understanding that all Aboriginal objects and Places are protected under the NSW *National Parks and Wildlife Act 1974*, even if in a disturbed or partially damaged state. If any Aboriginal objects are uncovered during any project activity, work must stop immediately and reference should be made to the recommendations listed below.

#### **Chart 1: Due Diligence Process**





## Recommendations

Based on this investigation, it is recommended that:

## Recommendation 1: Proposal to proceed without further archaeological input

The work described in this report can proceed without further assessment or approval from the NSW *National Parks and Wildlife Act 1974* as no Aboriginal objects or Places have been identified as occurring within the Project Area and the potential of locating them during the proposed works is assessed as low. This recommendation is conditional upon recommendations 2, 3, and 4.

## **Recommendation 2: Discovery of unanticipated Aboriginal cultural material**

All Aboriginal Places and objects are protected under the NSW *National Parks and Wildlife Act 1974*. This protection extends to Aboriginal objects and Places that have not been identified but might be unearthed during construction. The following contingency plan describes the actions that must be taken in instances where Aboriginal cultural material is encountered. Any such discovery at the activity area must follow these steps:

- 1. **Discovery:** Should unanticipated Aboriginal cultural material be identified during any works, works must cease in the vicinity of the find.
- 2. Notification: OEH must be notified of the find.
- 3. **Management:** In consultation with OEH, Deerubbin LALC and a qualified archaeologist, a management strategy should be developed to manage the identified Aboriginal cultural material. This may include the requirement to apply for an Aboriginal Heritage Impact Permit.
- 4. **Recording:** The find will be recorded in accordance with the requirements of the NSW *National Parks and Wildlife Act 1974* and OEH guidelines.

## **Recommendation 3: Discovery of Unanticipated Human Remains**

The following contingency plan describes the actions that must be taken in instances where human remains or suspected human remains are discovered. Any such discovery at the activity area must follow these steps:

- 1. **Discovery:** If suspected human remains are discovered all activity in the vicinity of the human remains must stop to ensure minimal damage is caused to the remains. The remains must be left in place and protected from harm or damage.
- 2. **Notification:** Once suspected human skeletal remains have been found, the Coroners Office and the NSW Police must be notified immediately. Following this, the find must be reported to OEH and it is recommended that it is also reported to Deerubbin LALC.
- 3. **Management:** If the human remains are of Aboriginal ancestral origin an appropriate management strategy will be developed in consultation with Aboriginal Stakeholders and OEH.
- 4. **Recording:** The find will be recorded in accordance with the requirements of the NSW *National Parks and Wildlife Act 1974* and OEH guidelines.

## **Recommendation 4: Report to Deerubbin Local Aboriginal Land Council**

A copy of this final report should be distributed to Deerubbin LALC for their records.



Please contact me on (02) 9101 8707 if you require further information.

Yours sincerely,

Maldowno

Samantha Gibbins

Consultant Archaeologist



## Appendices



Appendix 1: Figures









# Appendix 2: Aboriginal Consultation Documentation



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Our Ref: 2463

Your Ref: Matter # 18669

19 August 2014

## **PROTECTION OF ABORIGINAL CULTURAL HERITAGE**

## Horsley Park Meter Station Upgrade

194-202 Chandos Road, Horsley Park

Attention: Samantha Gibbins,

A representative of Deerubbin Local Aboriginal Land Council inspected the proposed upgrade of Gas Meter Station, Horsley Park on 4 August 2014. An Aboriginal cultural heritage assessment was undertaken to evaluate the likely impact the proposed development has on the cultural heritage of the land.

The station had been inspected in 1999 it has no intact soils then and no Aboriginal cultural material (in the form of stone artefacts, for example) were found during the inspection.

Deerubbin Local Aboriginal Land Council therefore has no objections to the proposed upgrade of the Horsley Park Meter Station on the grounds of Aboriginal cultural heritage.

Yours Faithfully,

ARandall

(Steven Randall

Aboriginal Cultural Heritage Officer)

C.c. Miranda Morton – Office of Environment & Heritage



## Appendix 3: Site Card 45-5-2567

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[x] New recording

[ ] Additional Info

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5. Edible plants noted:				
6. Faunal resources (include shellfish):				
7. Other exploitable resources (river pebbles, ochre, etc):				
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